

## 45 WS ELECTRIC FIELD MILL LIGHTNING PREDICTION THRESHOLD ANALYSIS

THESIS

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AFIT-ENS-MS-20-M-171

DEPARTMENT OF THE AIR FORCE AIR UNIVERSITY

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#### AFIT-ENS-MS-20-M-171

# AN ANALYSIS OF A LIGHTING PREDICTION THRESHOLD FOR 45TH WEATHER SQUADRON ELECTRIC FIELD MILL DATA

#### THESIS

Presented to the Faculty

Department of Operational Sciences

Graduate School of Engineering and Management

Air Force Institute of Technology

Air University

Air Education and Training Command

In Partial Fulfillment of the Requirements for the

Degree of Master of Science in Operations Research

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Major, USAF

March 2020

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## 45 WS ELECTRIC FIELD MILL LIGHTNING PREDICTION THRESHOLD ANALYSIS

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#### Abstract

The mission of the 45th Weather Squadron (45 WS) is to "exploit the weather to assure safe access to air and space" for Patrick Air Force Base, Cape Canaveral Air Force Station (CCAFS), and Kennedy Space Center (KSC) in support of various operations (United States Air Force, n.d.). To support that mission the 45 WS hosts a suite of weather detection instruments that include a lightning warning system that consists of an array of 31 electric field mills (EFM) and a lightning detection and ranging system (Department of the Air Force, 1976).

Electric field mills at Cape Canaveral continuously record data from 31 separate EFM sites 24 hours a day at a rate of 50 Hz. This produces 4,320,000 lines of recorded data daily for each EFM site, a total of more than 16 billion data points annually for the active thunderstorm season. This study seeks to determine a single electric field mill reading threshold for lightning onset and a separate single EFM reading threshold for lightning cessation. Statistical analysis of the EFM and Lightning Detection and Ranging (LDAR) parameters show there is no measurable correlation between EFM readings and lightning activity. Further, attempts to build models using threshold analysis, standard least squares regression fitting, nominal logistic regression fitting, and negative binomial regression fitting are unable to accurately predict any meaningful amount of lightning activity. The best of these models only account for 16% of the variance in the dataset. Overall results show EFM readings do not correlate well with lightning activity and any attempts to predict lightning proved ineffective.

### Acknowledgments

I would like to thank Lt Col Andrew Geyer for the guidance and mentorship he provided as my advisor, Dr. Raymond Hill for his guidance and support as the reader of this thesis, and Col McQuade, Lt Col Anderson, and Lt Col Tseng for their personal support and leadership during my time at AFIT.

Finally, I would like to thank my wife and children for their love, understanding, patience, and support given throughout this entire process.

Charles A. Skrovan

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## 45 WS ELECTRIC FIELD MILL LIGHTNING PREDICTION THRESHOLD ANALYSIS

#### I. Introduction

#### **1.1 General Issue**

The mission of the 45th Weather Squadron (45 WS) is to "exploit the weather to assure safe access to air and space" for Patrick Air Force Base, Cape Canaveral Air Force Station (CCAFS), and Kennedy Space Center (KSC) in support of various operations (United States Air Force, n.d.). To support this mission the 45 WS hosts a suite of weather detection instruments that include a lightning warning system that consists of an array of 31 electric field mills (EFM) and a lightning detection and ranging system (LDAR) (Department of the Air Force, 1976). To ensure safe operations, the threat of lightning within 5 nautical miles (NM) of each supported location determines which operations personnel may perform. These delays can lead to monetary losses, loss of production, or cancellation and postponement of launch activities. Launch commit criteria violations lead to delayed launches and increases in launch costs (Merceret *et al.*, 2010).

Currently, launch activities cannot take place when EFM sensor values exceed a threshold of 1000 V/m (Merceret *et al.*, 2010). At this threshold, the threat of rocket induced lightning is very high. The 45 WS desires a similar threshold value that can predict a lightning strike within 30 minutes.

#### **1.2 Problem Statement**

The 45 WS is interested in determining an EFM threshold reading value that can predict lightning onset and a separate EFM threshold value that accurately predicts lightning cessation.

#### 1.3 Research Objectives/Questions/Hypotheses

The hypothesis of this research is that there exists some threshold value above the mean clear-sky sensor reading of an EFM that indicates a strong potential for lightning activity to occur. The objectives of this research are to establish correlation among parameters of interest and build predictive models using threshold analysis and generalized linear regression techniques for time series data to accurately predict when a storm will begin and end.

#### **1.4 Research Focus**

This research focuses on establishing correlation between EFM sensor readings and lightning activity in order to conduct threshold analysis and construct regression models for time series analysis.

#### **1.5 Investigative Questions**

The questions answered in this analysis are: what factors from the available EFM and LDAR dataset best correlate to each other and to the occurrence of lightning storms? Does a threshold value for EFM readings that accurately predicts storm onset (30 minutes prior to first lightning strike) exist? Does a separate threshold value that accurately predicts storm cessation (15 minutes after last lightning strike) exist? If the threshold analysis does not produce a useful result can a standardized linear regression model accurately predict storm onset or cessation? Is a nominal logistic model useful in predicting if a storm will be present or not? If EFMs seem to be more responsive than predictive, then can a negative binomial model accurately predict when a storm is ending? Should the study use the variance of the EFM readings over 1-minute period instead of the mean EFM reading?

#### **1.6 Methodology**

The methodology used in this research includes data preparation, statistical analysis, and model building. The datasets are cleaned, reduced, combined, and augmented with specific parameters of interest. Various statistical processes used in the analysis include basic methods of statistical analysis, threshold analysis, standardized linear regression, nominal logistic regression, and negative binomial regression model building techniques to predict storm onset and cessation.

#### **1.7 Assumptions/Limitations**

A fundamental assumption is changes in the electric field of the air cause lightning. Another assumption is it is acceptable to reduce 50 Hz EFM data to 1-minute averages. That is how the range user receives the data in real-time for analysis, so the sponsor requested using the 1-minute EFM mean readings. The choice of response parameters is a potential limitation that determines how well models built on the dataset perform. Therefore, the research considers and explores several lightning response formats for correlation and modeling.

#### **1.8 Implications**

Current lightning warning practices at KSC are conservative. Establishing an EFM threshold value for lightning onset and/or lightning cessation has the potential of reducing range downtime and saving costs for range users.

#### **1.9 Preview**

The next chapter presents a literature review on various reports, instructions, manuals and texts related to the Eastern Range, lightning detection and measurement techniques, regression model time series analysis techniques, and prior research completed in these areas. Chapter 3 overviews the methodology used including: the equipment used, data preparation steps taken, the types of statistical analysis performed, and creation of the various threshold and regression

models. Chapter 4 explains the results of the output from the statistical analysis and discusses how well each of the regression techniques applied perform comparatively. Finally, chapter 5 concludes the report with a summary of the research performed and recommendations for next steps.

#### **II. Literature Review**

#### 2.1 Chapter Overview

This chapter provides a brief overview of the literature related to the Eastern Range, lightning detection and measurement techniques, regression model analysis techniques, and prior research completed in these areas.

#### 2.2 Eastern Range

#### 2.2.1 Overview

The Eastern Range, 45th Space Wing (45 SW), is a Major Range and Test Facility Base (MRTFB) Activity situated on Florida's east coast (OUDSR, 2007). The Eastern Range includes Cape Canaveral Air Force Station (CCAFS), National Aeronautics and Space Administration (NASA) Kennedy Space Center (KSC), and a corridor extending out over the Atlantic Ocean. As an MRTFB, the Eastern Range infrastructure and associated workforce must be preserved as a national asset to provide test and evaluation capabilities to support the Department of Defense (DoD) acquisition system (OUDSR, 2007). To ensure availability of this capability, range safety requirements safeguard personnel and assets on the range. CCAFS and KSC are situated in an area that receives the highest lightning activity in the United States, known as "Lightning Alley (Flinn *et al.*, 2010; Roeder & Saul, 2016)." The 45 WS provides operational support for activities conducted in and around the Eastern Range, which include observation services, meteorological forecasting, meteorological watch, supporting organizations' thresholds and requirements, and launch and landing weather support, all spelled out in detail in the 45th Space Wing Instruction (45 SWI) 15-101 (45 WS/DO, 2018).

#### 2.2.2 Instrumentation

The Eastern Range offers multiple meteorological services as described in the 45 SWI 15-101 and ETR Meteorological Handbook (45 WS/DO, 2018; Department of the Air Force, 1976). Surface instrumentation include: Mecurial Barometer, Barograph, Psychrometer, Hygrothermograph, Wind Measuring Set, Cloud Height Se, Ceiling Light Projector, Weather Radar, Launch Pad Lightning Warning System (LWS), and Weather Information Network Display System (Department of the Air Force, 1976). The Eastern Range has received various updates to its instrumentation to better detect lightning (Flinn *et al.*, 2010). The 45 WS implemented an update to its Lightning Detection and Ranging (LDAR) system in 2008 when the Four-Dimensional Lightning Surveillance System (4DLSS) went operational. The 45 WS also upgraded the Cloud to Ground Lighting Surveillance System (CGLSS) and integrated the system into the 4DLSS. In addition, the 45 WS uses the Launch Pad Lightning Warning System, which is a network of 31 surface electric field mills (Flinn *et al.*, 2010).

#### 2.2.3 Range Safety Requirements

AFSPC MANUAL 91-701 establishes range safety requirements for lightning on the Eastern Range for all activities performed at CCAFS. Volume 1 tasks range users to perform and document preliminary hazard analysis, to include lightning hazards (Air Force Space Command, 2016). Lightning protections and detection systems are required to keep employees, rockets, launch pads, payloads and processing facilities safe from harm (National Aeronatics and Space Administration, 2005). AFSPC MANUAL 91-701 Volume 3 establishes the requirements for lightning protection systems on buildings and equipment that complies with NFPA 780: *Standard for the Installation of Lighting Protection Systems* (Air Force Space Command, 2019). AFSPC MANUAL 91-701 Volume 5 has more specific requirements for launch vehicles,

payloads and ground support equipment for protection against lightning, typically by bonding grounding systems (Air Force Space Command, 2018). Finally, AFSPC MANUAL 91-701 Volume 6 provides operating restrictions for personnel due to lightning and establishes criteria for lightning hazard watches and warnings. Operations Safety Plans (OSP) detail procedures for reaction to lightning including what actions are to be taken during lightning watches and lightning warnings (Air Force Space Command, 2014, p. 21). Lightning watches are established when lightning is forecast to occur within 5 nautical miles of a specific lightning alert area (Air Force Space Command, 2014, p. 31). A lightning warning is established when lightning is imminent or occurring within a 5 nautical mile boundary of a specific lightning alert area (Air Force Space Command, 2014, p. 31).

#### 2.2.4 Launch Commitment Criteria

An important resource detailing the history of Lightning Launch Commitment Criteria (LLCC) is a report produced by NASA, "A History of Lightning Launch Commit Criteria and the Lightning Advisory Panel for America's Space Program," which gives a detailed background and chronology of studies and criteria related to the formation of LLCC. Range users consider two types of lightning when establishing range safety and launch commit criteria. The first is natural lightning, which is the focus of this research, and the second is triggered lightning that is caused when a vehicle flies into a high electric field (Merceret *et al.*, 2010, p. 34). Studies from triggered lightning incidents that occurred with the Apollo XII mission and the loss of Atlas-Centaur 67 rocket due to triggered lightning establish a trigger lightning warning for EFM readings in excess of 1000 volts per meter (V/m) (Merceret *et al.*, 2010, p. 41). There is currently no established threshold for EFM readings for naturally occurring lightning. Instead, a series of

criteria are established based on the detection of lightning, existence of storm clouds, and the temperature of cloud tops (Merceret *et al.*, 2010, pp. 128–132).

### 2.3 Lightning Measurement Methods

#### 2.3.1 Overview

The 45 WS on the Eastern Range employs several sensors to detect and report the presence of lightning in and around the Eastern Range. These sensor systems include the 4DLSS, LDAR, CGLSS, and the LPLWS as described in Section 2.2.2. The data made available and used for this study only include the 31 LPLWS EFM sensor data and LDAR sensor data. The following sections discuss these systems in further detail.

#### 2.3.2 Electric Field Mill (EFM)

The 45 WS employs an array of 31 electric field mills (EFM) to detect the static atmospheric electric field within 5 nautical miles of the sensor (Flinn *et al.*, 2010). The field mills are numbered from 1 to 34, but exclude sensor numbers 3, 23, and 33, which have either been moved to new locations or decommissioned. Figure 1 shows the locations of all 31 sensors. The sensors depicted by a blue marker are considered coastal sensors while the red markers depict inland sensors.

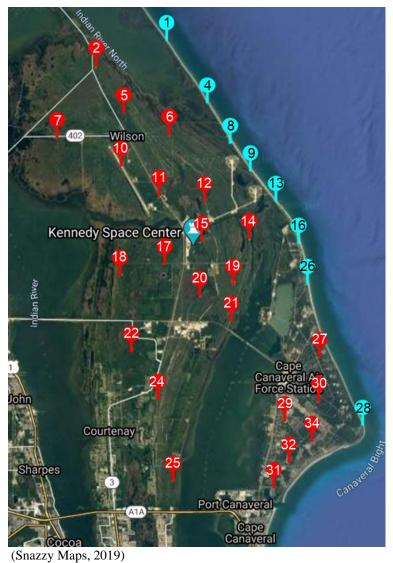


Figure 1: EFM Locations

An EFM "works by alternately exposing a sensor element to the electric field and an uncharged reference (Bloemink, 2013)." The electric field generated during a thunderstorm is caused by the shearing of electrons as particles in a storm ascend and collect on the descending particles (Bloemink, 2013). Figure 2 depicts the charge state conditions of the ground and cloud during storm generation.



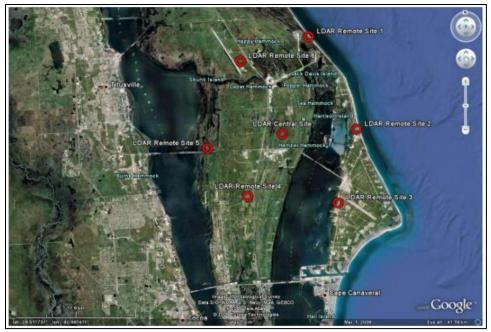
(Bloemink, 2013) Figure 2: Lightning Storm Electric Field Generation

The electric field charges the exposed sensor element. The sensor element discharges back to its ground state when covered. This induces a charge to the sensor element that is then converted to a voltage proportional to the external electric field (Bloemink, 2013). The EFMs in use by the 45 WS collect and record the atmospheric electric field in units of volts per meter (V/m) at a rate of 50 Hz. Real time display of EFM data at the weather station show a 1-minute running average of the EFM V/m reading for each sensor.

#### 2.3.3 Lightning Detection and Ranging

The function of the lightning detection and ranging (LDAR) system is to detect and determine the X, Y, and Z position of electrical discharge associated with thunderstorm activity and display that activity to the weather office to track the position and movement of thunderstorms (Poehler & Lennon, 1979). The X position represents the latitudinal distance in

meters of a lightning strike from the LDAR central station, the Y position is the longitudinal distance in meters of a strike from the station, and Z is the height at which the lightning occurs. Depending on height, these could be depicted as cloud-to-cloud or cloud-to-ground lightning, all of which encompass total lightning. The LDAR system consists of six sensors stationed around a central station and sensor as shown in Figure 3 (Merceret *et al.*, 2010, p. 28). Only three of the six sensors are required to obtain lightning strike data, while the other three sensors constitute an independent system used to validate the accuracy of the data (Poehler & Lennon, 1979). The sensors can detect the pulsed 60-80 MHz portion of the RF signal emitted by each lightning event more than 2 milliseconds apart. By using the location of each of the sensors and the time it takes for the lightning event RF signal to reach each sensor, they can triangulate the location of a lightning event (Poehler & Lennon, 1979). The LDAR data displays locally at the 45 WS weather office and Patrick AFB weather station at a limited rate. However, it is recorded at a much higher rate in digital format for processing and analysis. The latter data source is used for the analysis in this study (Poehler & Lennon, 1979).



(Merceret et al., 2010)

Figure 3: LDAR Sensor Locations

#### 2.4 Relevant Research

#### 2.4.1 NASA Reports

There have been numerous research studies carried out by National Aeronautics and Space Administration, the United States Air Force, and other agencies near Cape Canaveral Air Force Station, Florida. These studies are detailed in the NASA report, "A History of the Lightning Launch Commit Criteria and the Lightning Advisory Panel for America's Space Program (Merceret *et al.*, 2010)." Some of these studies date back to the early 1940s with the Thunderstorm Project and the Thunderstorm II project in the 1970s (Braham Jr., 1996; Poehler & Lennon, 1979). These studies primarily focus on understanding the inner workings of mesoscale disturbances of the atmosphere in an effort to make air travel safer (Braham Jr., 1996).

The first study primarily focuses on turbulence within a storm system. The Thunderstorm II project focuses on the study of and improvements to the LDAR system in place at KSC and CCAFS, ground based electric field mills, and an airborne electric field mill sensor (Poehler,

1977). This study shows that the LDAR system, with the addition of electric field mill sensors, can determine the position, waveshape, rate of rise, and peak current of ground strikes. It also shows that the system is reliable, accurate, and has redundancy (Poehler & Lennon, 1979). An important result of the Thunderstorm II study is that the electric field intensity required to initiate lightning discharge is as low as 200 kV/m in the presence of water drops (Poehler, 1977). It also suggests correlation between LDAR and airborne EFM readings. This study does not explain how the EFM readings reported by an airborne sensor differ from a ground-based sensor or how the readings compare since the airborne readings recorded far exceed the values provided in the current study's available EFM data.

The loss of the Atlas-Centaur 67 rocket due to triggered lightning in 1987 led to the formation of the Lightning Advisory Panel along with additional research activities into atmospheric electricity, lightning and triggered lightning. One of the major studies during this period is the Airborne Field Mill Program (ABFM I) which is similar to the Thunderstorm II project. In this study an aircraft fitted with five electric field mills takes direct measurements of the electric field vector in thunderstorm-related clouds (Merceret *et al.*, 2010, p. 53). The summer studies conducted through ABFM I show that fields at the ground were never below 1 kV/m while fields aloft were below 5 kV/m when cumulous clouds were present within 5-6 nautical miles of the LPLWS network (Merceret *et al.*, 2010, p. 55). This gives a good indication of the range of EFM values to consider for the lightning prediction threshold for this research.

#### 2.4.3 AFIT EFM Studies

There are several studies from AFIT, requested by the 45 WS, that use various statistical analysis methods conducted on the same KSC EFM dataset. These studies include the use of artificial neural network analysis, ellipse fitting methods, and recurrent neural network modeling

of the EFM data with varying results. Hill (2018) proposes using artificial neural networks and EFM data to predict lightning strike potential. Using a 15 minute prediction Hill's best neural network model is able to achieve a reported accuracy of 90.3% with a true positive rate of 77.6% and a probability of false detection rate of 8.3%, and an overall operational utility index of 53.9% (Hill, 2018).

Speranza (2019) also attempts to predict lightning strikes around KSC and CCAFS using optimal Long Short-term Memory Neural Network models. Speranza makes several deviations from the study conducted by Hill (2018). Speranza uses a different methodology and different subset of the EFM data. While Hill uses 1-minute means on EFM data, Speranza reduces his dataset to 1-hour increments. Ultimately, Speranza's model, based on hourly look backs of 48 hours is able to predict lightning with a maximum accuracy of 84%, but is not very useful due to the low resolution (Speranza, 2019).

Sanderson (2019) focuses on using LDAR data in an effort to reestablish a new lightning storm warning radius from 5 nautical miles to 4 nautical miles using an ellipse fitting method. This change in effect is able to reduce range user's downtime and increase productivity. Sanderson's proposal saves approximately 22.5 8-hour man days annually for the months of May through September (Sanderson, 2019).

#### 2.4.2 EFM Research by Other Institution

Lucas *et al.* (2017) study 18 years of KSC EFM data. They also include readings from meteorological sensors in and around the area to determine meteorological impacts to the EFM readings. Their study primarily focuses on EFM response during fair-weather conditions and suggest there are different responses and signatures between coastal and inland electric field mills (Lucas *et al.*, 2017). They are also able to show noticeable variations in the ambient electric

field mill readings are affected by wind direction, varying levels of cloud cover, and diurnal variation effects (Lucas *et al.*, 2017).

Antonio da Silva Ferro *et al.* (2018) show an EFM response to lightning within 20 km of the sensor. In this study, the researchers consider 1-minute averages of the EFM measurements, showing this to be a satisfactory smoothing technique to filter high frequency oscillations. This study concludes that, using a 45 minute warning window, the EFM sensor is able to provide a 60% probability of detection at a threshold of 900 V/m at a radius of 10 km (Antonio da Silva Ferro *et al.*, 2018).

#### **2.5 Statistical Analysis**

#### 2.5.1 Overview

Many techniques are available to analyze time series data. This study uses basic statistical analysis, like calculating mean, variance, and correlation, to more involved processes, such as least squares regression, nominal logistic regression (NLR) and negative binomial regression to determine how different variables relate to a response variable of interest. This section summarizes several studies that use these different techniques and demonstrates how to apply them to the time series dataset involved in this research.

#### 2.5.2 Statistical Relationships

This study uses statistical analysis of variables to determine if a relationship exists between provided EFM sensor reading data and the occurrence of lightning. While there are studies specific to the particular dataset used in this research, finding similar studies to suggest a different approach is more challenging. Several studies into research and analysis of noisy time series data typically apply varying techniques to denoise the data prior to processing, such as the use of wavelets (Lucas *et al.*, 2017). Masselot *et al.* (2018) show that aggregating the response

prior to applying regression model fitting offers good performance. In this technique the aggregation of  $\tilde{y}_t$  is:

$$\tilde{y}_t = \sum_{i \in I} w_i y_{t+1} \tag{1}$$

where  $w_i$  are the weights attributed to each observation and *I* is the aggregation window (Masselot *et al.*, 2018).

Zhu *et al.* (2013) search for linear correlations in sparse and noisy data sets. They acknowledge the importance of finding correlations to show the dependencies among the varying features in a dataset. The techniques they reference primarily concern themselves with discriminant analysis approaches from classification literature. Their technique of research builds upon those principles to the concept of global linear correlation (Zhu *et al.*, 2013). This research focuses on the former, discriminant analysis approach.

#### 2.5.3 Threshold Analysis

Antonio da Silva Ferro *et al.* (2018) give a good example to follow for performing threshold analysis on EFM reading data. It is possible to use prebuilt software tools to study thresholds within time series data. One such package is T-Time, a Java based visual data mining tool that allows for interactive data exploration. T-Time is described as being able to assist users in identifying potentially interesting threshold values (Aßfalg, Kriegel, Kunath, Pryakhin, & Renz, 2008). The techniques behind the software include interval generation, applying distance functions on intervals, and using distance functions on interval sequences. Unfortunately, this particular software does not appear to be available. Another package, available in R, is "threg." This packages uses an estimation procedure with a threshold regression model (Xiao, Whitmore, He, & Ting Lee, 2015). The approach suggested by da Silva Ferro *et al.* (2018) is the preferred method for this study since the scripts are simple to create and understand how they are working.

#### 2.5.4 Regression Models

This study makes use of various regression analysis techniques for time series analysis to generate descriptive models that may predict detection of a potential lightning strike. Kedem and Fokianos (2002) describe several regression methods for differing types of time series data, including general, binary/categorical, and count time series. Dynamic modeling could prove useful, as suggested by Laine, as these models offer a very generic framework to analyze time series data (Laine, 2019). However, due to the nature of the EFM dataset having a consistent mean value throughout the day, this work's primary focus is on standard least squares regression, nominal logistic regression, and negative binomial regression models.

Standard least squares regression is used "to relate the mean response of a variable of interest to a set of explanatory variables by means of a linear equation" (Kedem & Fokianos, 2002). This type of regression is only useful, however, if the observations in the data are normal and independent, or one can at least assume the observations to be so. The general form for the regression model is:

$$X(t) = a(t,\theta) + \varepsilon(t), t \ge 0,$$
(2)

where  $a(t, \tau)$ ,  $(t, \tau) \in \mathbb{R}_+ \times \Theta^c$ , is a continuous function, and random noise  $\varepsilon = \{\varepsilon(t), t \in \mathbb{R} (\text{Ivanov} \& \text{Orlovskyi}, 2018).$ 

Kedem and Fokianos (2002) describe regression models for dealing with binary responses, which is a subset of categorical time series regression models. Logistic regression is considered one of the simplest models for binary classification that can directly estimate posterior probabilities (Kurita *et al.*, 2009). Logistic regression models model events that occur as either a success or a failure. The following expresses the dichotomy as:

$$Y_t \equiv I_{[X_t \in C]} = \begin{cases} 1, & \text{if } X_t \in C \\ 0, & \text{if } X_t \in \bar{C} \end{cases}$$
(3)

where  $\overline{C}$  is the complement of the set *C* (Kedem & Fokianos, 2002). Additionally, the cumulative density function (CDF) and probability functions are (Kedem & Fokianos, 2002):

$$F_l(x) = \frac{e^x}{1 + e^x} = \frac{1}{1 + e^{-x}}, -\infty < x < \infty$$
<sup>(4)</sup>

and

$$P(Y_2 = y_2 | Y_1 = y_1) = P_{00} \left(\frac{P_{01}}{P_{00}}\right)^{y_1} \left(\frac{P_{10}}{P_{00}}\right)^{y_2} \left(\frac{P_{11}P_{00}}{P_{01}P_{10}}\right)^{y_2 y_1}$$
(5)

Reforming the equation gives:

$$\log\left\{\frac{P(Y_2 = 1 | Y_1 = y_1)}{P(Y_2 = 0 | Y_1 = y_1)}\right\} = \theta_2 + \theta_{12}y_1$$
(6)

where

$$\theta_2 = \log\left(\frac{P_{10}}{P_{00}}\right), \theta_{12} = \log\left(\frac{P_{11}P_{00}}{P_{01}P_{10}}\right). \tag{7}$$

Pang *et al.* (2019) use a binary logistic regression model to establish a linear or nonlinear relationship between independent and dependent variables. Using the binary logistic regression technique they show low missed forecasting, but high false alarm rates when predicting severe weather (Pang *et al.*, 2019).

Count time series are generally modeled using a Poisson distribution model (Kedem & Fokianos, 2002). A subset of the Poisson model is the negative binomial regression model. Negative binomial models are useful when there is a possibility of over-dispersion or extreme observations in the variables (Chen *et al.*, 2016). The negative binomial cumulative distribution function is:

$$y_t | \mathcal{F}_{t-1} \sim \mathcal{NB}\left( (\gamma_t - 1)^{-1} \mu_t, \frac{\gamma_t - 1}{\gamma_t} \right), (\gamma_t - 1)^{-1} \mu_t, \gamma_t - 1 \ge 0,$$
$$P(y_t = k | \mathcal{F}_{t-1}) = \frac{\Gamma((\gamma_t - 1)^{-1} \mu_t + k)}{\Gamma((\gamma_t - 1)^{-1} \mu_t) \Gamma(k+1)} \left(\frac{1}{\gamma_t}\right)^{(\gamma_t - 1)^{-1} \mu_t} \left( 1 - \frac{1}{\gamma_t} \right)^k.$$
<sup>(8)</sup>

#### 2.6 Summary

This chapter discussed literature relating to activities at the Eastern Range, the techniques and technologies used for measuring and studying lightning phenomenon, studies related to lightning research and EFM and LDAR analysis, and research covering various statistical methods. This section included a summary of the importance of the Eastern Range as an MRTFB and the protection of personnel and assets as described in various instructions, manuals and reports. It detailed the types of equipment used by the 45 WS and researchers in support of range activities. This chapter presented a summary of the works relevant to this research. Finally, this section reported on and summarized reports related to different statistical analysis. The next chapter explains the research methodology.

#### **III.** Methodology

#### 3.1 Chapter Overview

This chapter describes the methodologies used in the analysis of predictive qualities of EFM data. First, this chapter describes the materials used in analysis to include the software, hardware, and sensors. Next, this section details the steps used to create, clean, reduce, and augment the data. Finally, this section finishes by describing various statistical processes used in the analysis including the methods of statistical analysis, threshold analysis, standardized linear regression and NLR model building methods to predict storm onset and cessation, and a negative binomial method to predict lightning storm cessation.

#### **3.2 Materials and Equipment**

#### 3.2.1 Computer Hardware and Software

Due to the large size of the dataset, in terms of number of both number of files to process and the amount of data points recorded, the research greatly benefits from the capability to use a programming language, especially one already tailored toward data analysis and statistics. There are several programming languages to choose from. However, being open source and having a large amount of support available make the R programming language version 3.6.1 with the RStudio GUI interface version 1.1.143 an ideal choice for processing the dataset (R Core Team, 2019). The machines available to run the software include two mobile laptops running 64-bit Windows 10 Home Edition, with an Intel Quad-Core i7 CPU and 16 GB of RAM in each. These machines are useful for processing data when away from the desk. However, due to the large number of files, the large size of those files, and the desire to use parallel processing they quickly showed inability to process the dataset in a reasonable amount of time. To help reduce the processing time, an HP Z620 workstation with two Xeon E5-2687W 8-core processors and 192 GB of RAM running both Linux and Windows 10 Professional performed the majority of the data processing tasks.

After the data was cleaned, processed, aggregated, and augmented in R, it was converted into a CSV file for use in JMP 13.0 for statistical analysis of the dataset (SAS Institute Inc., 2019). The JMP data analysis software offers an easy to use interface to interact with the dataset, choose the desired parameters to analyze and compare, and perform the various types of analysis to include multivariate analysis and model fitting. JMP also proved useful in its ability to produce graphical output in addition to analysis in text format. Microsoft Excel provided capability for further processing of JMP output to summarize the JMP results and better represent findings.

#### 3.2.2 Datasets

The dataset used for this research and analysis include EFM sensor readings and LDAR data recordings. They are available on a portable hard disk drive and also available from NASA's Spaceport Weather Archive (Smith, 2019). The EFM data is composed of daily sensor files for each EFM sensor located at KSC and CCAFS. This study makes use of four years of LDAR data grouped into monthly files. The entirety of the dataset takes up nearly 3 terabytes of hard disk space prior to processing.

#### **3.3 Data Preparation**

#### 3.3.1 EFM Data

The data available for processing includes four years of "lightning season" data EFM and LDAR readings for the months between May and September. The 50 Hz EFM data is broken up into 34 distinct sensor ".RAW" files for each day, of those 34 ".RAW" files, only up to 31 files contain data since EFM sensors 3, 23, and 33 are deactivated. Daily folders group the ".RAW"

files for all sensors for each day of data. Those daily folders combine into 6 groups of 5 days for each month of data and 5 months of data group into years from 2013 to 2016.

The first step in data preparation involved using the R programming language to read in the ".RAW" files for each sensor for a single day. These sensor files have three columns: date in Julian format, time in microseconds, and sensor reading in V/m. Figure 4 shows an example of how R displays the ".RAW" file format. A single daily data frame combines individual sensor files by column for each day; it contains the date, time, and the sensor readings across 31 columns.

2013121	00:00:00.000	368.00
2013121	00:00:00.020	364.00
2013121	00:00:00.040	364.00
2013121	00:00:00.060	364.00
2013121	00:00:00.080	364.00
2013121	00:00:00.100	364.00
2013121	00:00:00.120	364.00
2013121	00:00:00.140	364.00
2013121	00:00:00.160	364.00
2013121	00:00:00.180	360.00
2013121	00:00:00.200	364.00

Figure 4: Example Raw ".RAW" EFM Data Format

Reducing 50 Hz sensor readings to 1-minute averages helps reduce time needed for processing and the size of the dataset by 1/300 of its original length. Real-time displays of the EFM data show EFM readings for each sensor as a 1-minute running average of the electric field in V/m. In addition to columns that represent the 1-minute mean sensor reading for each EFM, the variances for 1-minute of sensor data are stored in columns representing each sensor. The completed dataset combines 1-minute mean sensor readings and 1-minute variances by row into a single dataset and 1-minute variance for every day of the 4 years of available EFM data.

#### 3.3.2 LDAR Data

The LDAR data are processed and cleaned before they are combined with the EFM dataset. The first step involves reading in the LDAR ".txt" files which are provided for every

month over the 4-year period included in this study. Each ".txt" file of LDAR data contain one month of comma delimited files with 5 columns. The first column includes the date and time, the second column is latitudinal distance in meters from the center of the LDAR sensor network, the third column is longitudinal distance in meters from the center of the LDAR sensor network, the fourth column represents the height at which the lightning is detected (this height column is ignored since there is only interest if lightning occurs in the area, not if it is a cloud-to-cloud or cloud-to-ground strike), and the fifth column is the Unix epoch time with a base time starting at 00:00:00 on 1 January 1970. Figure 5 shows an example of the formatting of a raw ".txt" file.

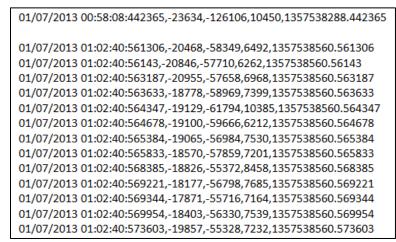


Figure 5: Example Raw ".txt" LDAR Data Format

The first step for processing the LDAR data was to read it into an R data frame, then separate the combined date and time column into separate columns with the same formatting as the date and time of the EFM data. The latitude and longitude data must go through several transformations prior to analysis. Using equation (9), where  $\lambda_{LDAR}$  is the latitudinal location of the center of the LDAR sensor in degrees,  $x_{strike}$  is the latitudinal distance in meters of a lightning flash from the LDAR sensor, and  $r_{Earth}$  is the radius of the Earth in kilometers, transforms the raw latitudinal distance into a coordinate in degrees latitude.

$$\lambda_{strike} = \lambda_{LDAR} + \frac{\left(\frac{\chi_{strike}}{1000}\right)}{r_{Earth}} * \frac{180}{\pi}$$
(9)

Similarly, the calculation shown in equation (10) transforms raw longitudinal distance to degrees longitude, where  $\varphi_{LDAR}$  is the longitudinal location of the center of the LDAR sensor in degrees,  $y_{strike}$  is the longitudinal distance in meters of a lightning flash from the LDAR sensor, and  $r_{Earth}$  is the radius of the Earth in kilometers.

$$\varphi_{strike} = \varphi_{LDAR} + \frac{\left(\frac{\left(\frac{y_{strike}}{1000}\right)}{r_{Earth}} * \frac{180}{\pi}\right)}{\cos\left(\lambda_{LDAR} * \frac{\pi}{180}\right)}$$
(10)

The following steps calculated the distance in nautical miles between each lightning strike and each EFM sensor in the sensor array using the latitudinal and longitudinal coordinates of the lightning strikes and the coordinates of each EFM sensor. The spherical law of cosines transformation in equation (11), where  $\lambda_{EFM_i}$  is the latitudinal coordinate of an EFM sensor in radians, *i* is the sensor number from 1-34,  $\lambda_{strike}$  is the latitudinal coordinate of a lightning strike in radians,  $\varphi_{EFM_i}$  is the longitudinal coordinate of an EFM sensor in radians,  $\varphi_{strike}$  is the longitudinal coordinate of a lightning strike in radians, and  $r_{Earth}$  is the radius of the Earth in nautical miles, calculated the distance between two geographic coordinates (Veness, 2019).

$$Dist = abs \left[ a\cos(sin(\lambda_{EFM_i}) * sin(\lambda_{strike}) + cos(\lambda_{EFM_i}) * cos(\lambda_{strike}) \\ * cos(\phi_{EFM_i} - \phi_{strike})) * r_{Earth} \right]$$
(11)

Next, the LDAR dataset was reduced by all lightning strikes into a single reading for each EFM for each minute of the day. To do this, the minimum lightning strike distance observed over each 1-minute period for each EFM sensor is calculated and stored in a separate column representing each EFM sensor. The data are displayed as a binary of 1000 if a minimum lightning strike distance is within 5 nautical miles of the sensor, otherwise the value is set to 0 for no lightning detected within that distance. A binary value of 1000 was chosen over using 1 so that lightning strikes could hold more leverage in model building in case the binary columns are treated as continuous variables rather than nominal or binary categories. Additionally, it makes it easier to differentiate when graphed with other variables.

#### 3.3.3 Combined EFM/LDAR Dataset

After processing the EFM and LDAR data, a left-join command combined the two datasets into one where the EFM dataset serves as the base dataset. There are many rows of data representing minutes with no lightning; "NA" values fill the LDAR columns in these empty segments for the lightning strike distance columns and 0s for the binary lightning strike columns. The binary strike columns are referenced to create an additional 31 columns that represent lightning storm periods. A lightning storm period is the time 30 minutes before the first lightning strike occurs to 15 minutes after the last lightning strike. Lightning within 5 nautical miles of a sensor and within 45 minutes of each other are part of the same storm. A no storm period is any time period where there is more than 45 minutes without any lightning strikes. Subsets of the dataset representing storm only and no-storm only data were appended into additional datasets for use in different analysis methods.

In addition to the mean sensor readings and variance calculations, the dataset included calculated 1-minute mean absolute value of each sensor's readings and 1-minute centered mean absolute value for use in threshold evaluation. Appendix A provides a sample of the completed dataset.

#### **3.4.1** Statistical Relationships

Basic statistical analysis on the dataset checked for any relationships between the variables within the dataset against the lightning response. Analysis included plotting the data, exploring the distribution of the EFM sensor readings, and checking for correlations among the EFM readings treated as independent variables. Additionally, analysis investigated correlations between the EFM readings as the input variable and lightning distance as the response variable. This study primarily used JMP 13.0 throughout to analyze the interaction between the EFM dataset and the lightning and storm response (SAS Institute Inc., 2019).

The first step in the statistical analysis checked the EFM sensor data for correlation with each other, with lightning strike distance, and the presence of storms as a binary response. This analysis provided an idea of how EFM sensors react in response to lightning activity. For EFMs to be useful in the prediction of lightning storms there should be high correlation of EFM sensor readings and lightning distances and storm activity. This type of analysis does propose the question: which variable is the independent variable and which is the response? This research, however, considered the EFM sensor readings to be the independent variables predicting lightning activity as a response.

It was prudent to first plot the available data to gain insights into its behavior. The first plots were a scatter plot of an EFM's sensor readings by time-of-day. This plot provided insight into if and how the time-of-day affects EFM readings for each of the 31 individual EFM sensors. Appendix B contains each of these plots for each sensor. Further analysis checked each EFM sensor output for normality using normal quantile plots. Appendix C shows these distribution plots for each EFM sensor. Scatter plots comparing EFM sensor readings with minimum

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lightning distances for each 1-minute mean time interval were also plotted and are shown in Appendix D.

Centering the EFM data for each sensor was also a parameter desired for analysis. R scripts calculated the mean sensor reading for each EFM sensor during periods when no-storms occur. This was expressed as the mean,  $\mu_j$  of the sensor, *j*, conditioned on the binary response of the storm,  $Y_j$ , occurring within 5 nautical miles of the sensor, and storm defined as the time period encompassing 30 minutes prior to the first lightning strike and 15 minutes after the last lightning strike.

$$\mu_j(x_j|Y_j = 0); j = [1,2,4:22,24:32,34]$$
 (12)

This calculated mean centered the EFM reading by taking the absolute distance of the sensor reading from the mean and stored the values in a new column in the working dataset using:

$$\mu_{C(i,j)} = |x_{i,j} - \mu_j| \quad \forall i \; ; \; j = [1,2,4:22,24:32,34].$$
<sup>(13)</sup>

The centered mean columns were then aggregated into a single column representing the overall EFM response for the entire EFM network covering KSC. Equation (14) expresses the function as:

$$\mu_{i} = \frac{\sum_{j=1}^{n} x_{i,j}}{n} ; 1 \le i \le 31.$$
<sup>(14)</sup>

Additionally, the calculation for the geometric mean from the centered mean is the following:

$$\widetilde{\mu}_{i} = \left(\prod_{j=1}^{n} x_{i,j}\right)^{\frac{1}{n}}; 1 \le i \le 31.$$
(15)

Figure 10 shows the overall centered mean of all EFMs and the geometric mean of all sensors as a function of the time-of-day. Appendix E shows the full set of plots for 2013-2016.

Finally, a multivariate correlation analysis checked the 1-minute mean EFM sensor data for correlations among each other. Correlation analysis also checked for correlation among EFM sensor readings and the minimum distances lightning occurs from each of the EFM sensors. The correlation is calculated using Equation 16:

$$\rho = \frac{\sigma_{XY}}{\sigma_X \sigma_Y} = \frac{Cov(X, Y)}{\sigma_X \sigma_Y} = \frac{E[(X - \mu_X)(Y - \mu_Y)]}{\sigma_X \sigma_Y}.$$
(16)

Table 1 and Table 2 show the results for correlation.

# 3.4.2 Threshold Analysis

R performed threshold analysis. The processing involved:

- a. If storm is occurring and EFM reading is above a threshold value, then response was counted as a true positive (TP).
- b. If storm is occurring and EFM reading is below a threshold value, then response was counted as a false negative (FN).
- c. If storm is not occurring and EFM reading is above a threshold value, then response was counted as a false positive (FP).
- d. If storm is not occurring and EFM reading is below a threshold value, then response was counted as a true negative (TN).

The analysis considered threshold values from 100 V/m to 4000 V/m in 100 V/m increments. The analysis also considered and evaluated response times of 30 minutes to 1 minute prior to the first lightning strike in 1-minute decrements and a time period 15 minutes after the last lightning strike in a storm. The analysis evaluated each individual EFM sensor by location and to the overall mean and geometric mean of all EFM sensor readings.

#### 3.4.3 Standard Least Squares Regression

With all the parameters readily available in the working dataset, it was a relatively quick process to also consider and check other models for response and goodness-of-fit. The three models were storm response as a function of the overall mean EFM sensor readings, the geometric mean EFM sensor readings, and as a function of all of the EFM sensors, simultaneously. JMPs Fit Model analysis tool performed the model fitting (SAS Institute Inc., 2019). One output from the JMP provided analysis to consider is the  $R^2$  value as it represents the goodness-of-fit of the model.  $R^2$  showed how well the model explains the variance in parameters. Analysts consider the model to be a good fit for the dataset for high values of  $R^2$ .

# 3.4.4 Nominal Logistic Regression

Storm activity was modeled as a binary event. Either a storm exists (timeframe encompassing 30 minutes prior to the first lightning strike to 15 minutes after the last lightning strike) or it does not exist. The binary storm response considered the 5 nautical mile radial area encompassing each of the EFM sensors. Additionally, a binary response considered a storm occurring over any part of the KSC detection zone. Generalized regression analysis produced a nominal logistic regression (NLR) model for each sensor location. Outputs from this analysis included an  $R^2$  value for the model and the parameter effects. The  $R^2$  value indicates how well the model describes the data. Finally, the NLR analysis output provided a confusion matrix that showed how well the model predicts the TP, FN, FP, and TN response. These accuracies of the prediction rates reported in the confusion matrices are plotted, along with the  $R^2$  values, on a graph for each EFM sensor location along with the prediction rate using the overall centered mean EFM sensor reading with storm response over any area of KSC. Figure 24, Figure 25 and Appendix F show the output from the NLR model generation.

### 3.4.5 Negative Binomial Regression

A set of lightning response columns contained values that count down the time from 30 minutes prior to a lightning strike until 15 minutes after for each individual storm for each sensor location. A subset of the dataset represented active storms for each sensor. A new database combined these individual sensor subsets for active storms for evaluation. The input variables included all EFM sensor readings while the response was the ending time for each storm for each sensor. The negative binomial regression analysis function created a NBR model for each sensor. Items of interest in the output were the  $R^2$  value for the model to check for goodness of fit and the parameter estimates as this shows which parameters are relevant to the model. Figure 27 displays the calculated  $R^2$  values for each model as bar chart.

#### **3.4.6** Variance Calculations

Analysis considered the 1-minute variance for each EFM sensor in an effort to establish other potential dependences within the dataset. calculates the variance during the EFM data processing step, as (Yau, 2020):

$$s^{2} = \frac{1}{n-1} \sum_{i=1}^{n} (x_{i} - \bar{x})^{2}$$
<sup>(17)</sup>

Multivariate correlations between the variance for each sensor were considered. Additionally, correlations between the variance and the minimum distance of lightning strikes from each sensor location were considered. Table 5 and Table 6 show these correlations values for the variance.

#### **3.5 Summary**

This chapter described the equipment, software, and raw data and systematic methodology used to prepare and analyze the dataset in this research. The next section discusses results of statistical analysis and regression model performance.

### **IV. Analysis and Results**

# **4.1 Chapter Overview**

This chapter discusses the analysis on the research dataset and results of the statistical analysis techniques used and performance characteristics of different regression models. Preliminary analysis visualized the dataset and performed some basic statistical analysis. Next, the study explores and reports on correlations between parameters. Once statistical analysis is complete, JMP creates models for the various regression analysis techniques given: threshold analysis, standard least squares regression, nominal logistic regression, and negative binomial regression. Summaries of each section report on the results of model performance.

### **4.2 Preliminary Analysis**

To better understand the structure and behavior of the supplied dataset it is convenient and useful to first visualize the parameters graphically. Starting with the initial 1-minute mean EFM sensor data, an EFM sensor reading vs. the time-of-day is plotted, shown in Figure 6 and Appendix B, to determine if there may be any time effect on the EFM sensor readings. It appears there is a diurnal effect where the EFM readings stay close to their mean value during daylight hours, but show more variation during the night. However, further analysis in correlation indicates that time-of-day is not a statistically significant factor affecting EFM readings in general.

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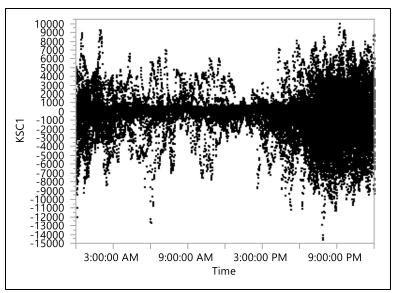


Figure 6: EFM 1 Sensor Readings by Time

Normal distribution quantile plots were generated for each of the EFM sensor readings. Figure 7 and Appendix C shows an example EFM sensor normal quantile plot. The normal quantile plots for each of the EFMs shows a bell-shaped curve. However, readings near the sensor mean heavily dominate the EFM dataset. The normal quantile plot also shows the distributions have very heavy tails. This may suggest that looking for EFM and lightning response might lay somewhere in the fringes.

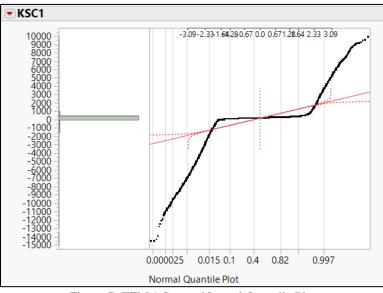


Figure 7: EFM 1 Sensor Normal Quantile Plot

Another plot of interest was sensor readings as a function of the minimum distance of a lightning strike to a sensor location. Figure 8 and Appendix D show the EFM sensor reading versus distance plots. These cases treated EFM readings as a response to lightning rather than lightning responding to EFMs as in the majority of this research. However, it makes sense to look at lightning and EFMs in this way since the storm formation processes are causing the changes in the electric fields of storm clouds. These plots suggest that as storms get closer to an EFM, the range of recorded electric field readings increases.

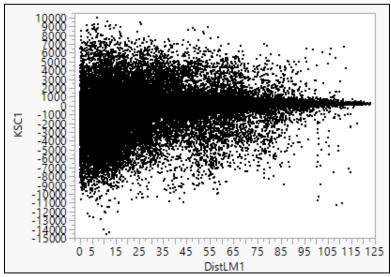


Figure 8: EFM1 Sensor Readings by Minimum Lightning Distance

The mean sensor reading for each EFM during periods where no storms are occurring within 5 nautical miles of the sensor were calculated and displayed in Figure 9. This bar chart for the mean EFM sensor readings show that sensor means are between 100 and 200 V/m. There is an interesting phenomenon with these averages. Sensors 1, 4, 8, 9, 13, 16, 26, 27, and 28 are all in close proximity to the ocean compared to the other sensors as seen in Figure 1. This may suggest that there is an environmental factor caused by the ocean that has an effect on the EFM

sensors. These observations coincide with observations made by Lucas *et al.* (2017). The mean sensor readings are also important in centering the data in an effort to get a more consistent response from each sensor reading regardless of its local ambient effects.

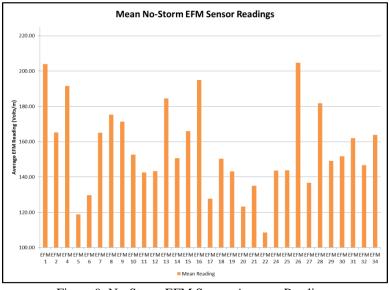


Figure 9: No-Storm EFM Sensor Average Readings

Figure 10 shows the plots for the centered mean and centered geometric mean as a function of time-of-day. As with the individual EFM sensor vs. time-of-day plots, these plots show a potential diurnal effect for periods of daylight and night.

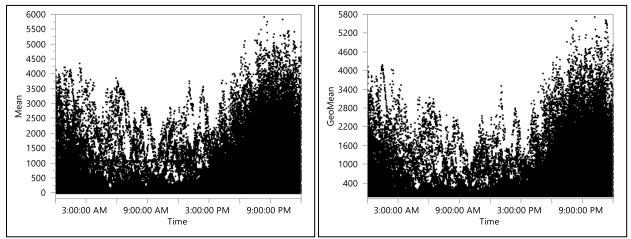


Figure 10: Centered Mean and Geometric Mean EFM Readings vs Time

The final part of the preliminary analysis converted the working dataset to a timeextension format in R and plotted the result (Dan Vanderkam *et al.*, 2018). Appendix E shows the annual plots for each 5-month period of the lightning season using the centered mean sensor reading. Scrutinizing these plots show some areas of interest that suggest the EFM readings may not be a good predictor of lightning activity. Figure 11 shows relatively flat EFM response during periods of high lightning activity.

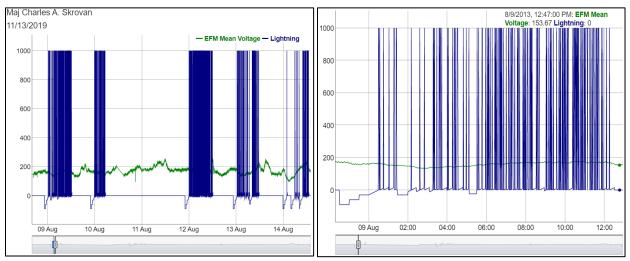


Figure 11: Issue, Flat EFM Response during Storms

In Figure 12, the EFM sensor readings show changes only after a lightning strike occurs. This suggests that the EFM sensors are responding to lightning activity rather than lightning activity responding to the electric field, or perhaps the sensitivity of the EFM sensor does not extend out to 5 nautical miles.

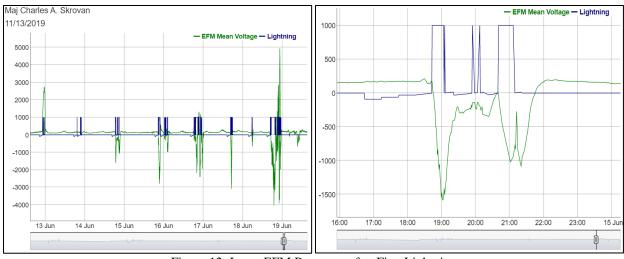


Figure 12: Issue, EFM Response after First Lightning

Finally, Figure 13 shows an example of situations where the EFM sensor reading spike away from their average sensor reading, but there is no reported lightning activity within a 5 nautical mile radius of the sensor area.

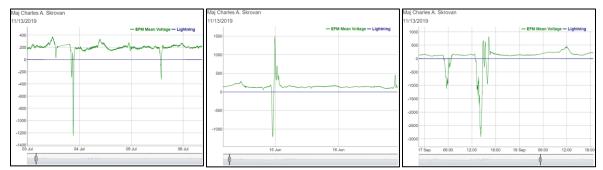


Figure 13: Issue, EFM Spikes with No Storms Present

These issues bring into question whether EFM readings are a good measure or predictor of lightning activity. Further analysis helps in narrowing down a solution.

# 4.3 Investigative Questions Answered

The questions answered in this analysis are: what factors from the available EFM and LDAR dataset best correlate to each other and to the occurrence of lightning storms? Does a threshold value for EFM readings that accurately predicts storm onset (30 minutes prior to first lightning strike) exist? Does a separate threshold value that accurately predicts storm cessation

(15 minutes after last lightning strike) exist? If the threshold analysis does not produce a useful result can a standardized linear regression model accurately predict storm onset or cessation? Is a nominal logistic model useful in predicting if a storm will be present or not present? If EFMs seem to be more responsive than predictive, then can a negative binomial model accurately predict when a storm is ending? Should the study use the variance of the EFM readings over 1-minute period instead of the mean EFM reading?

#### **4.3.1** Correlation Comparisons

A multivariate correlation analysis helped determine how well different parameters predict or interact with other parameters. Table 1 compares the 1-minute mean EFM sensor readings for each sensor. The blue shading on the table show a relationship where the parameters are more highly correlated, whereas the red shading show little to no correlation among the parameters of interest. As expected, sensors within close proximity to each other have high correlations with one another. The table shows low correlation between time and any of the EFM sensor readings, which is contrary to what the scatter plots in Section 4.2 suggested. This is likely because most EFM sensor readings remain relatively close to the mean, overwhelming any excursions from the mean sensor value.

Table 2 displays the 1-minute mean EFM sensor readings as compared to lightning distance. The analysis assumed that if EFM readings can predict lightning, then there should be a strong correlation between EFM readings and lighting distance. The red shading and low values depicted in this table show otherwise. Since there is not a high correlation between EFM readings and lightning strikes or the existence of lightning storms it suggests there are potentially other external factors affecting EFM readings not captured by LDAR data alone or that EFM readings are not a good indicator of lightning activity.

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Mean         Mean <th< th=""><th>Mean KSC34 -0.037 0.126 0.134</th></th<>	Mean KSC34 -0.037 0.126 0.134
100         0.00	-0.037 0.126
Mean KSC         0.00         0.62         0.66         0.00         0.673         0.426         0.53         0.426         0.439         0.43         0.40         0.28         0.43         0.28         0.426         0.438         0.426         0.439         0.439         0.430         0.439         0.430         0.439         0.439         0.430         0.439         0.439         0.430         0.439<	0.126
Mean KSC2       0.603       0.612       1.000       0.509       0.687       0.684       0.444       0.378       0.607       0.483       0.404       0.298       0.328       0.378       0.205       0.125       0.125       0.126       0.125       0.126       0.125       0.126       0.125       0.126	
Mean KSC4 0.02 0.66 0.50° 1.000 0.618 0.76 0.40 0.618 0.74 0.42 0.80 0.673 0.54 0.42 0.80 0.57 0.58 0.58 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0.557 0	0.134
Mean KSC5 -0.057 0.601 0.769 0.618 1.000 0.772 0.680 0.578 0.48 0.48 0.48 0.48 0.48 0.473 0.63 0.52 0.367 0.408 0.13 0.303 0.451 0.453 0.300 0.451 0.453 0.300 0.375 0.29 0.319 0.257 0.17 0.255 0.201 0.149 0.175 0.181 0.139 0.157	
	0.176
	0.163
Mean KSCe 0.069 0.573 0.587 0.746 0.772 1.000 0.556 0.715 0.606 0.756 0.745 0.606 0.756 0.742 0.673 0.484 0.523 0.161 0.399 0.520 0.492 0.491 0.496 0.361 0.356 0.292 0.212 0.332 0.237 0.167 0.207 0.152 0.179	0.186
Mean KSC7 <b>-0.075</b> 0.426 0.684 0.424 0.680 0.556 <b>1.000</b> 0.395 0.342 0.695 0.342 0.695 0.539 0.411 0.287 0.349 0.115 0.263 0.426 0.480 0.480 0.388 0.354 0.303 0.327 0.263 0.193 0.235 0.193 0.235 0.193 0.122 0.174 0.162 0.143 0.149	0.153
Mean KSC8 0.446 0.539 0.444 0.806 0.548 0.715 0.395 1.000 0.841 0.539 0.616 0.529 0.616 0.721 0.659 0.627 0.175 0.547 0.490 0.419 0.506 0.475 0.421 0.335 0.289 0.236 0.446 0.313 0.213 0.250 0.254 0.192 0.216	0.226
Mean KSC9 - 0.40 0.452 0.378 0.673 0.462 0.676 0.462 0.606 0.342 0.841 1.000 0.486 0.587 0.741 0.806 0.748 0.86 0.748 0.69 0.505 0.423 0.670 0.517 0.483 0.355 0.308 0.250 0.531 0.368 0.257 0.298 0.309 0.219 0.248	0.263
Mean KSC10 - 0.475 0.458 0.607 0.458 0.607 0.545 0.773 0.55 0.579 0.545 0.59 0.59 0.459 0.59 0.48 1.000 0.786 0.610 0.404 0.475 0.164 0.359 0.578 0.584 0.422 0.463 0.385 0.406 0.321 0.229 0.317 0.228 0.10 0.225 0.208 0.170 0.185	0.189
Mean KSC11 - 0.070 0.424 0.483 0.557 0.633 0.572 0.633 0.572 0.539 0.616 0.587 0.786 1.000 0.790 0.508 0.594 0.204 0.447 0.687 0.643 0.547 0.687 0.643 0.547 0.567 0.474 0.466 0.366 0.277 0.402 0.304 0.203 0.272 0.255 0.200 0.223	0.235
Mean KSC12 0.053 0.399 0.404 0.582 0.523 0.673 0.411 0.721 0.741 0.71 0.74 0.610 0.790 0.644 0.758 0.220 0.557 0.657 0.551 0.650 0.551 0.630 0.606 0.523 0.428 0.345 0.274 0.474 0.336 0.222 0.282 0.282 0.282 0.282 0.282	0.247
Mean KSC13 0.038 0.350 0.298 0.531 0.367 0.484 0.287 0.659 0.806 0.404 0.508 0.604 0.508 0.404 0.508 0.644 1.000 0.75 0.279 0.78 0.476 0.398 0.476 0.398 0.502 0.528 0.354 0.322 0.256 0.641 0.443 0.308 0.345 0.371 0.249 0.282	0.305
Mean KSC14 -0.051 0.340 0.332 0.504 0.408 0.523 0.349 0.627 0.718 0.475 0.594 0.575 1.00 0.219 0.779 0.632 0.518 0.803 0.696 0.663 0.464 0.416 0.328 0.679 0.478 0.311 0.401 0.397 0.280 0.322	0.342
Mean KSC15 -0.023 0.090 0.108 0.139 0.133 0.161 0.115 0.175 0.182 0.164 0.204 0.204 0.207 0.219 1.000 0.162 0.232 0.178 0.210 0.206 0.192 0.147 0.124 0.088 0.482 0.107 0.067 0.095 0.088 0.068 0.069	0.078
Mean KSC16 0.034 0.282 0.250 0.440 0.303 0.399 0.263 0.547 0.649 0.359 0.47 0.649 0.359 0.447 0.557 0.783 0.79 0.162 1.000 0.464 0.388 0.680 0.559 0.607 0.367 0.352 0.302 0.841 0.556 0.388 0.428 0.451 0.300 0.343	0.374
Mean KSC17 0.065 0.316 0.356 0.435 0.451 0.520 0.452 0.450 0.450 0.520 0.452 0.578 0.578 0.687 0.687 0.687 0.476 0.632 0.232 0.464 1.000 0.791 0.671 0.760 0.605 0.624 0.489 0.489 0.490 0	0.277
Mean KSC18 -0.72 0.288 0.378 0.378 0.378 0.453 0.492 0.480 0.419 0.423 0.54 0.643 0.551 0.398 0.518 0.178 0.388 0.791 1.000 0.561 0.565 0.532 0.696 0.533 0.374 0.369 0.308 0.223 0.327 0.285 0.257 0.274	0.268
Mean KSC19 0.056 0.284 0.289 0.412 0.360 0.441 0.388 0.506 0.570 0.442 0.570 0.442 0.547 0.630 0.603 0.803 0.210 0.680 0.671 0.561 1.000 0.840 0.856 0.554 0.519 0.407 0.677 0.546 0.348 0.476 0.459 0.343 0.386	0.396
Mean KSC20 -0.058 0.288 0.295 0.400 0.375 0.406 0.375 0.406 0.354 0.475 0.517 0.463 0.567 0.606 0.522 0.696 0.206 0.559 0.760 0.658 0.840 1.000 0.802 0.654 0.584 0.429 0.560 0.429 0.409 0.322 0.455 0.420 0.337 0.371	0.374
Mean KSC21 0.044 0.242 0.236 0.340 0.292 0.361 0.303 0.421 0.483 0.385 0.474 0.523 0.528 0.663 0.192 0.607 0.605 0.532 0.683 0.802 1.000 0.584 0.592 0.465 0.597 0.400 0.551 0.517 0.403 0.451	0.452
Mean KSC22 -0.059 0.221 0.252 0.292 0.292 0.319 0.356 0.327 0.35 0.356 0.327 0.355 0.406 0.466 0.428 0.354 0.464 0.147 0.367 0.624 0.696 0.554 0.654 0.554 0.564 0.578 0.579 0.519 0.387 0.519 0.387 0.263 0.405 0.349 0.346 0.345	0.329
Mean KSC24 -0.064 0.178 0.191 0.249 0.257 0.292 0.263 0.289 0.308 0.321 0.366 0.345 0.322 0.416 0.124 0.352 0.489 0.533 0.519 0.584 0.592 0.775 1.000 0.661 0.389 0.417 0.324 0.496 0.416 0.433 0.443	0.417
Mean KSC25 -0.058 0.121 0.155 0.177 0.177 0.212 0.193 0.226 0.250 0.229 0.270 0.270 0.274 0.256 0.328 0.088 0.302 0.349 0.370 0.340 0.407 0.429 0.465 0.519 0.661 1.000 0.346 0.400 0.370 0.531 0.442 0.569 0.532	0.470
Mean KSC26 0.02 0.23 0.20 0.30 0.20 0.30 0.25 0.32 0.25 0.32 0.25 0.42 0.53 0.44 0.51 0.31 0.40 0.40 0.40 0.40 0.40 0.41 0.40 0.43 0.40 0.45 0.46 0.46 0.46 0.46 0.46 0.46 0.46 0.46	0.464
Mean KSC27 - 0.029 0.165 0.167 0.243 0.201 0.237 0.181 0.313 0.368 0.238 0.304 0.336 0.343 0.346 0.443 0.478 0.107 0.556 0.350 0.350 0.356 0.479 0.576 0.373 0.417 0.400 0.686 1.000 0.633 0.700 0.796 0.496	0.643
Mean KSC28 -0.025 0.124 0.119 0.162 0.149 0.167 0.122 0.213 0.257 0.160 0.203 0.257 0.160 0.203 0.222 0.308 0.311 0.067 0.388 0.237 0.223 0.348 0.322 0.400 0.263 0.324 0.370 0.474 0.633 1.000 0.627 0.747 0.544 0.626	0.719
Mean KSC29 -0.045 0.146 0.145 0.196 0.175 0.210 0.176 0.220 0.290 0.290 0.290 0.290 0.292 0.292 0.292 0.292 0.345 0.401 0.095 0.428 0.337 0.327 0.476 0.455 0.51 0.405 0.51 0.51 0.405 0.51 0.51 0.51 0.51 0.51 0.51 0.51 0.	0.824
Mean KSC30 -0.08 0.140 0.149 0.198 0.181 0.207 0.162 0.254 0.309 0.208 0.255 0.255 0.371 0.397 0.088 0.451 0.303 0.285 0.459 0.420 0.517 0.349 0.416 0.442 0.553 0.796 0.747 0.820 1.000 0.604 0	0.806
Mean KSC31 0.020 0.120 0.125 0.148 0.139 0.152 0.143 0.152 0.143 0.152 0.143 0.152 0.143 0.152 0.143 0.152 0.219 0.170 0.200 0.206 0.249 0.200 0.068 0.300 0.248 0.300 0.248 0.307 0.433 0.377 0.403 0.336 0.433 0.569 0.366 0.496 0.544 0.709 0.604 1.000 0.835	0.720
Mean KSC32 -0.02 0.132 0.135 0.172 0.157 0.179 0.179 0.179 0.149 0.216 0.248 0.185 0.223 0.232 0.232 0.232 0.232 0.32 0.32	0.830
Mean KSC34 0.037 0.126 0.134 0.176 0.163 0.168 0.153 0.226 0.263 0.189 0.235 0.247 0.205 0.247 0.305 0.342 0.078 0.374 0.277 0.268 0.396 0.374 0.452 0.329 0.417 0.470 0.464 0.643 0.719 0.824 0.806 0.720 0.830	1.000

#### Table 1: 1-Minute Mean. Sensor to Sensor/Time Multivariate Correlation

	<b>a</b> : .	<b>a</b> :	<b>a</b> : .		<b>D</b> : 1	<b>a</b> : .									<u> </u>	0	-15tu							<b>D</b> <sup>1</sup> 1	<b>a</b> : .	<b>D</b> <sup>1</sup> 1		<b>a</b> : .		<b>a</b> : .	
	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist	Dist
	LM1	LM2	LM4	LM5	LM6	LM7	LM8	LM9	LM10		LM12	-		LM15	LM16			LM19	LM20			LM24			LM27	LM28	_		_		LM34
Mean KSC1	0.155	0.159	0.152	0.158	0.155	0.161	0.151	0.149	0.158	0.155	0.152	0.147	0.148	0.151	0.144	0.153	0.155	0.147	0.149	0.146	0.151	0.146	0.139	0.142	0.138	0.131	0.136	0.135	0.133	0.133	0.133
Mean KSC2	0.155	0.159	0.156	0.160	0.159	0.164	0.156	0.156	0.162	0.161	0.159	0.155	0.157	0.160	0.155	0.162	0.165	0.159	0.161	0.159	0.164	0.162	0.159	0.154	0.153	0.149	0.154	0.153	0.153	0.153	0.152
Mean KSC4	0.162	0.166	0.160	0.164	0.162	0.167	0.158	0.156	0.164	0.161	0.158	0.153	0.154	0.157	0.150	0.158	0.160	0.153	0.154	0.151	0.154	0.149	0.142	0.148	0.143	0.136	0.141	0.140	0.136	0.137	0.138
Mean KSC5	0.162	0.167	0.163	0.167	0.166	0.171	0.163	0.162	0.169	0.168	0.166	0.161	0.163	0.166	0.160	0.168	0.170	0.164	0.166	0.164	0.169	0.166	0.162	0.159	0.158	0.153	0.158	0.156	0.156	0.156	0.155
Mean KSC6	0.174	0.178	0.175	0.179	0.178	0.182	0.175	0.175	0.181	0.180	0.178	0.174	0.176	0.178	0.173	0.180	0.182	0.177	0.178	0.176	0.180	0.177	0.172	0.172	0.169	0.164	0.169	0.168	0.167	0.167	0.167
Mean KSC7	0.169	0.173	0.172	0.176	0.176	0.180	0.173	0.173	0.179	0.179	0.177	0.173	0.176	0.179	0.174	0.182	0.185	0.179	0.181	0.180	0.186	0.185	0.184	0.174	0.175	0.172	0.177	0.175	0.177	0.177	0.175
Mean KSC8	0.170	0.174	0.170	0.173	0.172	0.175	0.169	0.167	0.173	0.172	0.169	0.165	0.166	0.168	0.163	0.169	0.170	0.165	0.166	0.163	0.166	0.161	0.154	0.161	0.157	0.150	0.154	0.154	0.150	0.151	0.152
Mean KSC9	0.166	0.168	0.165	0.168	0.167	0.169	0.164	0.163	0.168	0.166	0.164	0.161	0.161	0.163	0.159	0.164	0.164	0.160	0.161	0.158	0.159	0.155	0.148	0.157	0.152	0.146	0.149	0.149	0.144	0.146	0.147
Mean KSC10	0.176	0.179	0.177	0.181	0.180	0.183	0.177	0.177	0.183	0.182	0.180	0.176	0.178	0.181	0.175	0.182	0.184	0.179	0.181	0.179	0.183	0.181	0.176	0.175	0.173	0.169	0.174	0.172	0.171	0.172	0.171
Mean KSC11	0.181	0.184	0.182	0.185	0.185	0.187	0.183	0.182	0.187	0.186	0.185	0.182	0.183	0.185	0.181	0.186	0.187	0.183	0.184	0.183	0.185	0.182	0.177	0.180	0.177	0.173	0.176	0.176	0.173	0.174	0.174
Mean KSC12	0.148	0.150	0.149	0.151	0.151	0.152	0.149	0.148	0.152	0.151	0.150	0.147	0.148	0.150	0.146	0.150	0.151	0.148	0.148	0.147	0.147	0.145	0.139	0.145	0.142	0.138	0.140	0.140	0.137	0.138	0.138
Mean KSC13	0.176	0.177	0.174	0.176	0.175	0.177	0.173	0.171	0.175	0.174	0.172	0.169	0.168	0.170	0.166	0.170	0.170	0.166	0.167	0.164	0.164	0.159	0.150	0.163	0.158	0.150	0.154	0.154	0.148	0.150	0.151
Mean KSC14	0.171	0.173	0.172	0.173	0.173	0.174	0.171	0.170	0.174	0.173	0.171	0.169	0.169	0.171	0.167	0.171	0.171	0.168	0.168	0.166	0.167	0.163	0.156	0.165	0.161	0.155	0.158	0.158	0.153	0.155	0.156
Mean KSC15	0.058	0.061	0.060	0.063	0.063	0.066	0.061	0.062	0.066	0.066	0.065	0.063	0.065	0.067	0.064	0.069	0.071	0.068	0.069	0.069	0.073	0.073	0.074	0.065	0.067	0.068	0.070	0.068	0.072	0.071	0.070
Mean KSC16	0.162	0.162	0.161	0.162	0.161	0.161	0.159	0.158	0.160	0.159	0.158	0.155	0.155	0.156	0.152	0.155	0.155	0.152	0.152	0.149	0.148	0.144	0.136	0.150	0.144	0.137	0.140	0.140	0.133	0.136	0.137
Mean KSC17	0.184	0.185	0.186	0.187	0.187	0.188	0.186	0.186	0.189	0.189	0.188	0.186	0.187	0.188	0.185	0.188	0.189	0.187	0.187	0.186	0.186	0.184	0.178	0.184	0.181	0.177	0.180	0.180	0.176	0.177	0.178
Mean KSC18	0.186	0.188	0.189	0.190	0.191	0.191	0.190	0.190	0.193	0.193	0.193	0.190	0.192	0.193	0.190	0.194	0.194	0.193	0.194	0.193	0.194	0.192	0.189	0.190	0.189	0.186	0.189	0.188	0.186	0.187	0.187
Mean KSC19	0.174	0.175	0.175	0.176	0.176	0.176	0.175	0.174	0.176	0.176	0.175	0.173	0.173	0.174	0.171	0.174	0.173	0.172	0.172	0.170	0.169	0.166	0.159	0.170	0.166	0.160	0.162	0.163	0.157	0.159	0.160
Mean KSC20	0.185	0.186	0.187	0.188	0.188	0.187	0.187	0.187	0.189	0.188	0.188	0.186	0.187	0.187	0.185	0.187	0.186	0.186	0.186	0.184	0.183	0.180	0.173	0.183	0.180	0.174	0.177	0.177	0.172	0.173	0.174
Mean KSC21	0.165	0.165	0.166	0.166	0.166	0.165	0.166	0.166	0.166	0.166	0.166	0.165	0.165	0.165	0.164	0.164	0.164	0.164	0.163	0.162	0.160	0.157	0.152	0.162	0.159	0.154	0.155	0.156	0.151	0.152	0.154
Mean KSC22	0.173	0.173	0.175	0.175	0.176	0.175	0.176	0.177	0.177	0.178	0.178	0.177	0.178	0.178	0.177	0.178	0.177	0.178	0.178	0.177	0.176	0.174	0.170	0.177	0.175	0.172	0.173	0.174	0.170	0.171	0.172
Mean KSC24	0.176	0.176	0.179	0.178	0.180	0.177	0.181	0.181	0.179	0.180	0.181	0.181	0.182	0.181	0.181	0.180	0.179	0.181	0.180	0.180	0.177	0.175	0.170	0.181	0.179	0.175	0.176	0.177	0.171	0.173	0.175
Mean KSC25	0.177	0.175	0.180	0.177	0.179	0.174	0.182	0.183	0.177	0.179	0.181	0.183	0.182	0.180	0.184	0.178	0.175	0.181	0.179	0.179	0.173	0.172	0.167	0.183	0.181	0.178	0.176	0.179	0.171	0.174	0.176
Mean KSC26	0.163	0.162	0.161	0.162	0.161	0.160	0.160	0.158	0.160	0.159	0.158	0.156	0.155	0.155	0.153	0.154	0.153	0.152	0.151	0.149	0.147	0.142	0.134	0.150	0.144	0.137	0.139	0.140	0.133	0.135	0.137
Mean KSC27	0.164	0.163	0.164	0.163	0.163	0.160	0.163	0.162	0.161	0.160	0.161	0.160	0.158	0.158	0.158	0.156	0.154	0.155	0.154	0.152	0.148	0.144	0.137	0.155	0.149	0.142	0.143	0.145	0.136	0.139	0.141
Mean KSC28	0.152	0.148	0.151	0.148	0.149	0.144	0.150	0.149	0.145	0.145	0.146	0.147	0.144	0.143	0.145	0.140	0.138	0.140	0.139	0.137	0.132	0.128	0.121	0.141	0.135	0.129	0.129	0.131	0.122	0.125	0.127
Mean KSC29	0.167	0.164	0.168	0.165	0.166	0.162	0.168	0.168	0.164	0.164	0.166	0.167	0.165	0.164	0.165	0.161	0.159	0.162	0.160	0.159	0.154	0.151	0.144	0.163	0.158	0.152	0.152	0.154	0.146	0.148	0.151
Mean KSC30	0.161	0.158	0.161	0.158	0.159	0.155	0.160	0.159	0.157	0.156	0.157	0.158	0.156	0.155	0.156	0.152	0.150	0.153	0.151	0.150	0.145	0.141	0.134	0.153	0.147	0.141	0.141	0.144	0.135	0.138	0.140
Mean KSC31	0.152	0.149	0.153	0.149	0.151	0.145	0.153	0.153	0.148	0.149	0.150	0.153	0.150	0.148	0.151	0.145	0.142	0.147	0.145	0.144	0.138	0.135	0.129	0.149	0.144	0.140	0.138	0.141	0.132	0.135	0.137
Mean KSC32	0.162	0.159	0.163	0.160	0.161	0.155	0.163	0.163	0.158	0.159	0.160	0.162	0.160	0.158	0.161	0.155	0.152	0.156	0.154	0.153	0.147	0.144	0.136	0.158	0.152	0.146	0.145	0.148	0.138	0.141	0.144
Mean KSC34	0.158	0.155	0.158	0.155	0.156	0.152	0.157	0.156	0.153	0.153	0.153	0.155	0.152	0.151	0.152	0.148	0.146	0.149	0.147	0.145	0.140	0.137	0.130	0.149	0.143	0.137	0.137	0.139	0.130	0.133	0.135

Table 2: 1-Minute Mean, Sensor to Lightning Distance Multivariate Correlation

# 4.3.2 Threshold Analysis to Predict Storms Onset and Cessation

A primary objective of this research was to determine if there exists a threshold value for EFM sensor readings that accurately predicts storm onset, 30 minutes prior to the first lightning strike, and a separate threshold for storm cessation, 15 minutes after the last lightning strike of the storm. As the next few figures show, the ability to predict storms using threshold analysis is inversely proportional to the ability to predict periods of no storms. As the threshold value increases from 100, more 1-minute mean EFM reading time-segments fall below the threshold value. Figure 14 shows a knee in the curve between 300 and 400 V/m. This is the first point of interest for further analysis. At 1300 V/m the true negative (TN) prediction reaches 99.5% accuracy. However, the desire is to predict lightning. The best lightning prediction occurs at a threshold of only 100 V/m with a true positive (TP) accuracy of 74%, while the TN rate is just under 18%. This serves little to no utility to a user. False negative (FN) rates were also considered. Since false negative reporting poses a dangerous scenario for range users it is of great interest to minimize. However, the FN rate gets worse as the threshold value increases, so there is no utility in this value, either. The 15-minute cessation threshold follows suit showing best prediction rate at 100 V/m, which serves no useful utility. Figure 15 shows prediction accuracy in response to prediction time; the assumption that prediction accuracy would be better with times closer to a lightning strike. However, Figure 15 shows only a slight increase in prediction accuracy for a TP result from the desired 30-minute prediction interval.

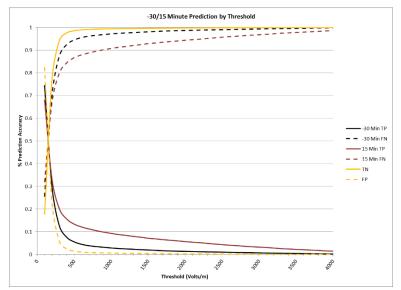


Figure 14: Storm Onset & Cessation Threshold Accuracy

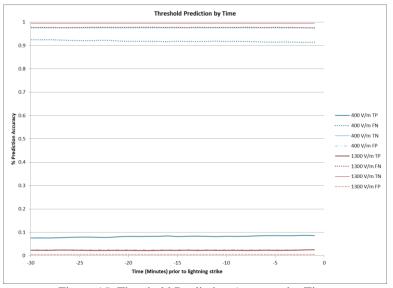


Figure 15: Threshold Prediction Accuracy by Time

Figure 16 shows using the centered mean sensor readings gave less accurate results than the individual sensor counts. The knee now occurs at 300 V/m. The TP storm onset prediction accuracy at 100 V/m is 20% and decreased with increasing threshold. The TN rate reaches 99.5% accuracy at 1400 V/m. There is a more pronounced difference in varying time interval of the prediction as shown in Figure 17, however the accuracy for TP predictions are still poor.

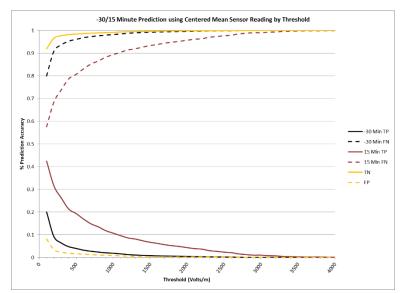


Figure 16: Storm Onset & Cessation Threshold Accuracy using Centered Mean Sensor Readings

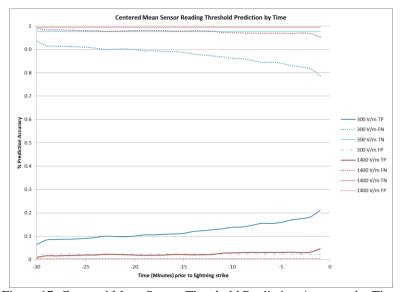


Figure 17: Centered Mean Sensor Threshold Prediction Accuracy by Time

Using the centered geometric mean sensor readings gave less accurate results than previous two threshold models, Figure 18. The knee occurs at 300 V/m. The TP storm onset prediction accuracy at 100 V/m is 11% and decreases as threshold increases. The TN rate reaches 99.5% accuracy at 900 V/m. There is a more pronounced difference in varying time interval of the prediction as shown in Figure 19, however the accuracy for TP predictions are not useful.

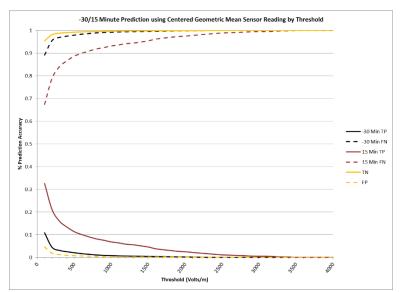


Figure 18: Storm Onset & Cessation Threshold Accuracy using Centered Geometric Mean Sensor Readings

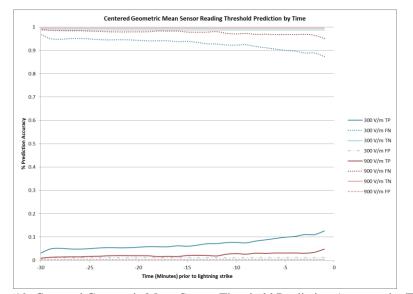


Figure 19: Centered Geometric Mean Sensor Threshold Prediction Accuracy by Time

Performing the same threshold analysis by a binary storm response rather than time response provided slightly better utility in predicting no-storm TN. Figure 20 shows the threshold for 95% (note: this differs from previous TN threshold accuracy of 99.5%) occurs at 2100 V/m, while the best TP accuracy occurs at 100 V/m with an accuracy of 55%.

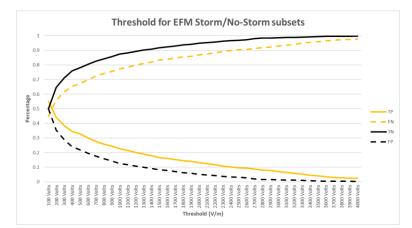


Figure 20: Storm Onset & Cessation Threshold Accuracy by Binary Storm Response

The threshold analysis did not provide a useful result through any of the four methods provided for either storm prediction or storm cessation. The TP accuracy for storm onset for the All Sensors model is 74.39%, while the storm cessation accuracy is 68.02% at 100 V/m thresholds for both.

Table 3: Threshold Analysis Utility

	TP "Best" Threshold (V/m)	TP Accuracy	TN 99.5% Threshold (V/m)
All Sensors	100	0.74	1300
Mean	100	0.20	1400
Geo Mean	100	0.11	900
Binary Storm	100	0.55	2100 (95%)

# 4.3.3 Standard Least Squares Regression Models to Predict Storms

This section of analysis used least squares regression to predict lightning activity given EFM sensor readings. Three models were built, the first using all EFM sensor readings to predict a single lightning end time response variable, followed by the centered mean EFM readings and the centered geometric mean EFM readings to predict the same single lightning end time response variable. The first model produced does not perform well (see Figure 21). The  $R^2$  and  $R^2_{adj}$  are quite low with a value of around 0.0444. This is not a good model. Other insights gleaned from the output in Figure 21 were that sensors 4, 9, 12, 15 and 18 are not significant to the model.

Effect Su	ımmar	у					Angler	: <b>f</b> V	•				
Course						PValue	Analys	IS OF V					
Source KSC25	LogWo 258.0					0.00000				Sum of			
KSC13	130.1					0.00000	Source	DF		Squares	Mean Squ	are	F Ratio
KSC32	74.2					0.00000	Model	31	2451	439433	79078		484.9744
KSC2	54.5					0.00000	_						
KSC27	45.4					0.00000	Error	323010	5.26	69e+10	163057	.45	Prob > F
KSC22		526				0.00000	C. Total	323041	5.51	21e+10			<.0001*
KSC10 KSC14	33.1	493				0.00000							
KSC1		162				0.00000	Parame	eter Es	tima	ates			
KSC26	22.2	291				0.00000						-	
KSC31	17.8					0.00000	Term	Estin	nate	Std Erro	r t Ratio	Pro	b> t
KSC11	14.3					0.00000	Intercept	249.12	2976	0.85098	8 292.75	<.	2001*
KSC5 KSC29	12.0	293	_			0.00000	KSC1	-0.018	3761	0.00186	1 -10.08	<.	2001*
KSC28		791				0.00000	KSC2	-0.04	1489	0.00286	7 -15.66	<.	2001*
KSC24		071	T I .			0.00000	KSC4	-0.004	1923	0.00313		0.	1164
KSC21	6.7	768 💼				0.00000	KSC5	0.0331		0.00464			0001*
KSC19		551				0.00000	KSC6	0.016		0.00444			0003*
KSC7 KSC17		492 469				0.00003	KSC7	-0.01		0.00269			0001*
KSC8		387				0.00003	KSC8	-0.015		0.0037			0001*
KSC30		343				0.00014	KSC9	0.000		0.003974			9589
KSC6	3.5	563 💼				0.00027	KSC10	-0.034		0.00282			0001*
KSC34		058				0.00087	KSC10	-0.034		0.00282			0001*
KSC16 KSC20		493 758				0.00321	KSC12	0.0030		0.00332			3737
KSC15		953				0.11153							
KSC4		934				0.11636	KSC13	-0.076		0.00313			0001*
KSC18	0.5	554				0.27904	KSC14	0.0379		0.00337			0001*
KSC12		427				0.37369	KSC15	-0.009		0.00572			1115
KSC9	0.0	018				0.95885	KSC16	0.0078		0.00267			0032*
Remove	Add Ed	<u>dit</u> 🗌 FC	DR				KSC17	0.0174		0.00421			2001*
							KSC18	-0.003		0.00295			2790
Lack Of I	Fit						KSC19	0.0195	5569	0.00377		<.	2001*
		Sum	of				KSC20	-0.009		0.00406			0175*
Source	DF	Squa	res Mea	n Square	F Ratio		KSC21	-0.016	5263	0.0031	1 -5.23	<.	2001*
Lack Of Fit	322670	5.2658e+		163195	5.0555		KSC22	-0.04	1097	0.003004	4 -13.64	<.	2001*
Pure Error	340	109754	450	32281	Prob > F		KSC24	0.0135	5403	0.00252	8 5.36	<.	2001*
Total Error					<.0001*		KSC25	-0.068		0.00198		<.	0001*
							KSC26	0.0253	3793	0.00256	9 9.88	<.	0001*
					Max RSq 0.9998		KSC27	-0.042		0.0029			0001*
					0.5550		KSC28	-0.016		0.00250			0001*
Summar	y of Fit						KSC29	0.0204		0.0029			0001*
RSquare			0.044474	-			KSC30	0.011		0.00303			0001*
RSquare Ad			0.044382				KSC31	0.0199		0.00227			0001*
Root Mean		Error	403.8037				KSC32	-0.079		0.00434			0001*
Mean of Re		m Wate)	210.5154 323042				KSC32	-0.010		0.00327			0001
Observatio	TIS (OF SU											0.	0000

Figure 21: Least Squares Regression Model for All Sensor Readings by Storm Response

The next least squares regression model used the centered mean EFM readings as the independent variable with lightning end time as the response, Figure 22. This model performed much better than the previous, however an  $R^2$  and  $R^2_{adj}$  of 0.167 was still too low. There were no insignificant parameters within the model.

Lack Of Fit											
			Sum	of							
Source		DF	Squar	es	Mear	n Squar	e F	Rati	io		
Lack Of F	it 73022	28 1	1.0834e+	11		14836	7	3.171	6		
Pure Erro	r 70	)7	330730	00		4677	9 Pro	ob >	F		
Total Erro	r 73093	35 1	1.0837e+	11			<	.0001	P		
								<b>ix RS</b> 0.999			
Summa	ary of	Fit									
RSquare0.167218RSquare Adj0.167217Root Mean Square Error385.0568Mean of Response217.1515Observations (or Sum Wgts)730937											
Analysi	is of V	aria	nce						1		
			Sum of						ĺ.		
Source	DF		Squares	N	lean S	quare	F Ra	atio			
Model	1	2.1	761e+10		2.17	6e+10	14676	57.5			
Error	730935	1.0	837e+11		1482	268.74	Prob	> F			
C. Total	730936	1.30	014e+11				<.00	01*			
Parame	eter Es	tim	ates								
Term	Estin	nate	Std Err	or	t Rat	io Pro	b> t	_			
Intercept					322.3		0001*				
Mean	0.4094	504	0.0010	69	383.1	10 <.	0001*				
Effect 1	<b>Fests</b>										
Predict	ion Ex	pre	ssion								
154.47283854 + 0.4094504449 • Centered Mean											

Figure 22: Least Squares Regression Model for Centered Mean by Storm Response

The final least squares regression model produced used the centered geometric mean EFM readings as the independent variable with lightning end time as the response, Figure 23. This model performed much better than the first model, but not quite as well as the model based on centered mean. The  $R^2$  and  $R^2_{adj}$  for this model were 0.139. As in the previous model, this was too low for the model to be of any utility. There were no insignificant parameters within the model.

Lack O	f Fit									
			Sum	ı of						
Source	D	)F	Squa	ires	Mear	n Sqi	uare	F	Ratio	•
Lack Of F	it 73029	95	1.1201e	+11		153	3377	1	3.430	0
Pure Erro	r 64	0	28618	900		44	1717	Pro	ob >	F
Total Erro	or 73093	35	1.1204e	+11				<	.0001	*
								Ma	x RS	q
									0.999	8
Summa	arv of I	Fit								
RSquare RSquare Root Mea Mean of Observati	an Squai Respons	e		0.1 39 21	13906 39058 1.5125 7.1515 30937					
Analysi	is of Va	ari	ance							
			Sum o	f						
Source	DF		Square		Vlean S	qua	re	FRa	atio	
Model	1	1.	8097e+1	0	1.8	1e+1	10 1	1806	51.0	
Error	730935	1.	1204e+1	1	1532	282.0	)5 P	rob	> F	
C. Total	730936	1.	3014e+1	1				<.00	01*	
Parame	eter Es	tin	nates							
Term			Estima	ate	Std Er	ror	t Ra	tio	Prot	)>
Intercept			167.570		0.480		349		<.0	
Centered	GeoMe	an	0.46245	556	0.001	346	343	.60	<.0	001
Effect 1	Tests									
Predict										

167.57064734+0.4624555694 • Centered GeoMean

Figure 23: Least Squares Regression for Centered Geometric Mean by Storm Response

The method of least square regression model fitting did not produce a viable model that could account for a majority of the variability in the dataset. Table 4 gives a summary of the measured  $R^2$  for each of the three models produced. The best performing model was the one that used a single centered mean EFM reading as the independent variable.

	$\mathbb{R}^2$	$\mathbb{R}^2_{adj}$
All Sensors	0.0445	0.0444
Mean	0.1672	0.1672
Geo Mean	0.1391	0.1391

Table 4: Least Squares Regression Model Fit Value

Since the storm times were not modeled through the techniques attempted so far, NLR models were considered to predict a binary response corresponding to storm and no-storm events in the next section.

#### 4.3.4 Nominal Logistic Regression Model to Predict Storms

Nominal logistic regression (NLR) models, a subset of categorical regression models, are useful for binary response variables. For these cases a storm, binary (1000), was the interval 30 minutes prior to the first lightning strike and 15 minutes after the last lightning strike. No-storm, binary (0), was the interval 15 minutes after the last lightning strike of a storm and 30 minutes before the first lightning strike of the next storm. Figure 24, shows an example output of the nominal logistic fit analysis provided by JMP using the centered mean EFM sensor readings for the independent variable and the binary storm response for a storm occurring anywhere on KSC. Items of interest from this output were the  $R^2$  value and the prediction test offered by the confusion matrix. The NLR model ran with all EFM sensor readings as the independent variables and a binary storm response for each sensor location. Appendix F provides the JMP output for each of the 31 models.

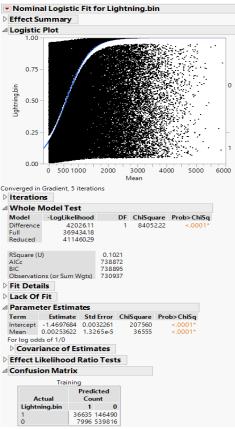


Figure 24: Logistic Regression Analysis EFM Centered Mean by Binary Storm Response

The prediction accuracy for TP, FN, TN, and FP, along with the  $R^2$  for the NLR model produced for each sensor location are reported in Figure 25 where the numbers 1:34 along the bottom of the graph represent sensor numbers; 35 is a recording of the NLR shown in Figure 25. The nominal regression model did well in predicting a TN response for when there are no storms at a rate of 99.7%, but performed poorly in predicting TP for when storms occur at an average rate of around 9.4%. The  $R^2$  values for the models range from around 0.04 to 0.16 for the individual sensor locations and 0.10 for the centered mean model.

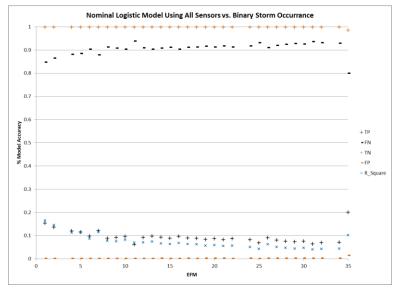


Figure 25: Logistic Regression Analysis EFM Sensor by Binary Storm Response

The nominal logistic regression models were good predictors of no-storm events, and minimized reporting storms when no storms are present (FP rate). However, they were not useful in predicting storms and only accounted for up to 16% of the variance in the dataset. The next section explores a set of models using a count time series regression technique.

#### 4.3.5 Negative Binomial Regression to Predict End of Storms

In negative binomial regression the dependent variable is a count of a certain number of events. In setting up the models to predict the end of a lightning storm the time remaining until the end of the storm, in minutes, for each sensor location was the count parameter. The independent variables were the 1-minute mean EFM sensor readings. The working data was subset to only include storm data for each sensor. JMP generated the negative binomial regression model for each sensor (SAS Institute Inc., 2019). Appendix G displays the models. Figure 26 shows an example of the JMP output for a negative binomial regression model for storms occurring over the 5 nautical mile radial area around EFM sensor 1. These models and in

Figure 26 and Appendix G show there are several parameters that are not significant in the models.

lodel Lau	unch					
Maxim	um Likelil	hood				
Model S	ummary					
Response Distribution Estimation Validation I Mean Mod Dispersion	Method Method	lightning.end Negative Bino Maximum Lik None Log Identity	omial			
Measure						
BIC AICc Generalized	quencies lood Parameters d RSquare	27652 9704 50155.066 33 100613.08 100376.36 0.04599				
Paramet	ter Estima	ites for Ori	ginal Predic			
_			Wald	Prob >		
Term	Estimate	Std Error	ChiSquare	ChiSquare	Lower 95%	Upper 95%
KSC1	-6.096 <del>e</del> 6		0.8398706	0.3594	-1.913e-5	6.941 <del>e</del> 6
KSC2	-4.934e-5		21.906621	<.0001*	-0.00007	-2.868e-5
KSC4	-0.00001		1.5739139	0.2096	-3.336e-5	7.3209e-6
KSC5	-0.000058		13.777185	0.0002*	-8.856 <del>e</del> -5	-2.735 <del>e</del> -5
KSC6	4.7168e-5		9.9265675	0.0016*	1.7826e-5	7.651e-5
KSC7	-5.402e-6		0.2691357	0.6039	-2.581e-5	0.000015
KSC8	-9.521e-6		0.6109303	0.4344	-3.34e-5	1.4354e-5
KSC9	-1.847e-5	1.2639e-5	2.135389	0.1439	-4.324e-5	6.3029e-6
KSC10	1.8383e-5	1.0236e-5	3.2254041	0.0725	-1.679 <del>e</del> -6	3.8445 <del>e</del> -5
KSC11	-5.654e-5	1.1253e-5	25.245355	<.0001*	-7.86e-5	-3.448e-5
KSC12	6.5581e-5	1.1469e-5	32.697204	<.0001*	0.0000431	8.806e-5
KSC13	-2.284e-9	1.0211e-5	5.0013879	0.0253*	-4.285e-5	-2.822e-6
KSC14	0.000027	1.184e-5	5.2034433	0.0225*	3.8023e-6	5.0215e-5
KSC15	-5.562e-5		7.4702088	0.0063*	-9.55e-5	-1.573e-5
KSC16	0.0000267		8.4329064	0.0037*	8.6814e-6	4.4731e-5
KSC17	-2.67e-5		2.9170244	0.0876	-5.733e-5	3.9393e-6
KSC18	7.1899e-6		0.4304276	0.5118	-1.429e-5	2.8669 <del>e</del> -5
KSC19	-2.073e-5		2.6012773	0.1068	-0.000046	4.462e-6
KSC20	-2.486e-5		2.9276345	0.0871	-5.334e-5	3.6173e-6
KSC21	7.3707e-6		0.4170292	0.5184	-0.000015	2.9741e-5
KSC22	1.0883e-5		0.9238568	0.3365	-1.131e-5	3.3074e-5
KSC22 KSC24	-0.000017		2.674267	0.1020	-3.759e-5	3.3945e-6
KSC24 KSC25	-2.382e-5		8.6879984	0.0032*	-3.966e-5	-7.98e-6
KSC25 KSC26	-2.382e-		12.816003	0.00032*	-3.900e-5	-1.479e-5
KSC26 KSC27			23.951853			
	5.397e-5			<.0001*	3.2356e-5	7.5584e-5
	2.4326e-5		6.987813 22.751952	0.0082*	6.2896e-6	4.2362e-5
KSC28				<.0001*	0.0000299	0.0000716
KSC28 KSC29	5.0743e-5					
KSC28 KSC29 KSC30	-3.719e-5	1.0737e-5	11.999964	0.0005*	-5.824e-5	-1.615e-5
KSC28 KSC29 KSC30 KSC31	-3.719e-5	1.0737e-5 8.142e-6	11.999964 0.3901806	0.0005* 0.5322	-5.824e-5 -0.000021	1.0872e-5
KSC28 KSC29 KSC30	-3.719e-5	1.0737e-5 8.142e-6 1.5315e-5	11.999964	0.0005*	-5.824e-5	

Figure 26: NB Regression to Predict Lightning Cessation by Sensor Location

The  $R^2$  values for these models range from 0.008 to a maximum 0.046. Figure 27 shows these values plotted as a bar graph.

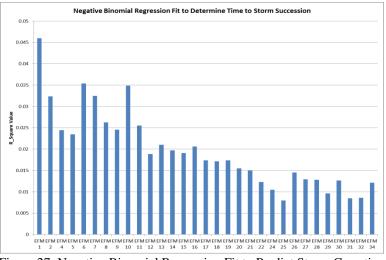


Figure 27: Negative Binomial Regression Fit to Predict Storm Cessation

The negative binomial regression model did not prove to have any utility in predicting the end of a storm based given the EFM sensor reading input. The negative binomial regression model was by far the worst performing of the different regression techniques applied for this time series dataset. The next section explores the EFM variance and its correlation properties to determine if they would be a better parameter to use in estimating lightning response.

#### 4.3.6 Consideration for EFM Variance Instead of Mean

Analysis considered the 1-minute variance for each of the 31 EFM sensors using the multivariate correlation technique previously applied to the 1-minute mean EFM sensor readings. Table 5 shows that the EFM sensors within close proximity to others have higher correlation than those further away, however the correlations did not extend as far away as they did for the 1-minute mean EFM sensor comparisons. Table 6 compares the 1-minute variance for each EFM sensor with the minimum distance of lightning from a sensor location. As with the 1-minute mean sensor comparisons, there is little to no correlation between the EFM variance readings and lightning activity.

Table 5: 1-Minute Mean, Sensor to Sensor Multivariate Correlation

						1			1 401								001 10														
	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var																
	KSC1	KSC2	KSC4	KSC5	KSC6	KSC7	KSC8	KSC9	KSC10		KSC12			KSC15					KSC20				KSC25			KSC28					KSC34
var KSC1	1.000	0.734	0.718	0.648	0.687	0.507	0.549	0.415	0.531	0.494	0.429	0.304	0.343	0.051	0.238		0.313	0.273	0.287	0.213	0.217	0.191	0.152		0.149	0.095	0.141	0.125	0.123	0.117	0.022
var KSC2	0.734	1.000	0.547	0.776	0.655	0.748	0.449	0.336	0.644	0.494	0.382	0.250	0.274	0.045	0.186	0.303	0.343	0.228	0.249	0.189	0.218	0.185	0.137	0.159	0.123	0.082	0.118	0.107	0.109	0.103	0.021
var KSC4	0.718	0.547	1.000	0.629	0.831	0.432	0.839	0.678	0.563	0.588	0.582	0.474	0.472	0.064	0.371	0.391	0.348	0.340	0.345	0.253	0.262	0.223	0.152	0.272	0.170	0.113	0.151	0.142	0.123	0.122	0.029
var KSC5	0.648	0.776	0.629	1.000	0.793	0.711	0.550	0.429	0.778	0.646	0.499	0.315	0.339	0.059	0.227	0.375	0.416	0.278	0.309	0.226	0.260	0.207	0.130	0.183	0.130	0.084	0.124	0.115	0.109	0.103	0.023
var KSC6	0.687	0.655	0.831	0.793	1.000	0.617	0.798	0.650	0.818	0.793	0.683	0.490	0.480	0.074	0.337	0.445	0.469	0.380	0.393	0.303	0.302	0.260	0.168	0.266	0.180	0.120	0.169	0.157	0.138	0.137	0.032
var KSC7	0.507	0.748	0.432	0.711	0.617	1.000	0.404	0.325	0.756	0.578	0.416	0.255	0.289	0.054	0.203	0.391	0.478	0.256	0.306	0.221	0.301	0.235	0.170	0.170	0.131	0.096	0.128	0.120	0.133	0.118	0.023
var KSC8	0.549	0.449	0.839	0.550	0.798	0.404	1.000	0.893	0.570	0.653	0.724	0.668	0.626	0.084	0.506	0.413	0.394	0.459	0.432	0.358	0.294	0.266	0.191	0.384	0.257	0.174	0.215	0.212	0.178	0.177	0.051
var KSC9	0.415	0.336	0.678	0.429	0.650	0.325	0.893	1.000	0.478	0.589	0.743	0.809	0.726	0.087	0.630	0.402	0.373	0.516	0.459	0.407	0.289	0.268	0.193	0.476	0.315	0.205	0.247	0.252	0.201	0.202	0.059
var KSC10	0.531	0.644	0.563	0.778	0.818	0.756	0.570	0.478	1.000	0.853	0.635	0.370	0.426	0.081	0.285	0.542	0.602	0.372	0.430	0.316	0.366	0.296	0.201	0.238	0.183	0.120	0.177	0.165	0.162	0.151	0.032
var KSC11	0.494	0.494	0.588	0.646	0.793	0.578	0.653	0.589	0.853	1.000	0.831	0.478	0.567	0.108	0.363	0.669	0.665	0.492	0.550	0.404	0.428	0.355	0.246	0.303	0.229	0.152	0.221	0.205	0.200	0.189	0.045
var KSC12	0.429	0.382	0.582	0.499	0.683	0.416	0.724	0.743	0.635	0.831	1.000	0.634	0.747	0.122	0.506	0.631	0.559	0.602	0.608	0.475	0.400	0.353	0.255	0.409	0.298	0.196	0.266	0.253	0.220	0.223	0.062
var KSC13	0.304	0.250	0.474	0.315	0.490	0.255	0.668	0.809	0.370	0.478	0.634	1.000	0.800	0.175	0.784	0.372	0.331	0.604	0.497	0.485	0.279	0.280	0.204	0.627	0.415	0.276	0.301	0.323	0.234	0.244	0.078
var KSC14	0.343	0.274	0.472	0.339	0.480	0.289	0.626	0.726	0.426	0.567	0.747	0.800	1.000	0.116	0.829	0.546	0.457	0.830	0.714	0.679	0.409	0.395	0.283	0.719	0.501	0.323	0.398	0.405	0.301	0.321	0.089
var KSC15	0.051	0.045	0.064	0.059	0.074	0.054	0.084	0.087	0.081	0.108	0.122	0.175	0.116	1.000	0.081	0.112	0.091	0.112	0.112	0.094	0.074	0.065	0.045	0.073	0.055	0.034	0.049	0.047	0.039	0.041	0.010
var KSC16	0.238	0.186	0.371	0.227	0.337	0.203	0.506	0.630	0.285	0.363	0.506	0.784	0.829	0.081	1.000	0.347	0.303	0.702	0.546	0.599	0.306	0.323	0.235	0.863	0.590	0.384	0.409	0.462	0.295	0.321	0.100
var KSC17	0.346	0.303	0.391	0.375	0.445	0.391	0.413	0.402	0.542	0.669	0.631	0.372	0.546	0.112	0.347	1.000	0.768	0.601	0.706	0.539	0.586	0.446	0.294	0.336	0.282	0.185	0.277	0.249	0.242	0.238	0.058
var KSC18	0.313	0.343	0.348	0.416	0.469	0.478	0.394	0.373	0.602	0.665	0.559	0.331	0.457	0.091	0.303	0.768	1.000	0.503	0.648	0.473	0.710	0.501	0.319	0.289	0.251	0.175	0.274	0.234	0.244	0.239	0.049
var KSC19	0.273	0.228	0.340	0.278	0.380	0.256	0.459	0.516	0.372	0.492	0.602	0.604	0.830	0.112	0.702	0.601	0.503	1.000	0.890	0.893	0.526	0.524	0.364	0.735	0.599	0.378	0.509	0.509	0.380	0.405	0.109
var KSC20	0.287	0.249	0.345	0.309	0.393	0.306	0.432	0.459	0.430	0.550	0.608	0.497	0.714	0.112	0.546	0.706	0.648	0.890	1.000	0.869	0.666	0.606	0.402	0.579	0.504	0.325	0.479	0.449	0.380	0.394	0.098
var KSC21	0.213	0.189	0.253	0.226	0.303	0.221	0.358	0.407	0.316	0.404	0.475	0.485	0.679	0.094	0.599	0.539	0.473	0.893	0.869	1.000	0.574	0.613	0.445	0.695	0.659	0.439	0.612	0.593	0.452	0.488	0.124
var KSC22	0.217	0.218	0.262	0.260	0.302	0.301	0.294	0.289	0.366	0.428	0.400	0.279	0.409	0.074	0.306	0.586	0.710	0.526	0.666	0.574	1.000	0.802	0.497	0.326	0.330	0.249	0.391	0.325	0.352	0.348	0.068
var KSC24	0.191	0.185	0.223	0.207	0.260	0.235	0.266	0.268	0.296	0.355	0.353	0.280	0.395	0.065	0.323	0.446	0.501	0.524	0.606	0.613	0.802	1.000	0.725	0.371	0.414	0.335	0.537	0.443	0.481	0.475	0.093
var KSC25	0.152	0.137	0.152	0.130	0.168	0.170	0.191	0.193	0.201	0.246	0.255	0.204	0.283	0.045	0.235	0.294	0.319	0.364	0.402	0.445	0.497	0.725	1.000	0.284	0.370	0.348	0.565	0.451	0.644	0.585	0.103
var KSC26	0.202	0.159	0.272	0.183	0.266	0.170	0.384	0.476	0.238	0.303	0.409	0.627	0.719	0.073	0.863	0.336	0.289	0.735	0.579	0.695	0.326	0.371	0.284	1.000	0.757	0.467	0.533	0.604	0.358	0.408	0.115
var KSC27	0.149	0.123	0.170	0.130	0.180	0.131	0.257	0.315	0.183	0.229	0.298	0.415	0.501	0.055	0.590	0.282	0.251	0.599	0.504	0.659	0.330	0.414	0.370	0.757	1.000	0.676	0.713	0.845	0.510	0.598	0.161
var KSC28	0.095	0.082	0.113	0.084	0.120	0.096	0.174	0.205	0.120	0.152	0.196	0.276	0.323	0.034	0.384	0.185	0.175	0.378	0.325	0.439	0.249	0.335	0.348	0.467	0.676	1.000	0.696	0.836	0.592	0.704	0.177
var KSC29	0.141	0.118	0.151	0.124	0.169	0.128	0.215	0.247	0.177	0.221	0.266	0.301	0.398	0.049	0.409	0.277	0.274	0.509	0.479	0.612	0.391	0.537	0.565	0.533	0.713	0.696	1.000	0.870	0.742	0.851	0.179
var KSC30	0.125	0.107	0.142	0.115	0.157	0.120	0.212	0.252	0.165	0.205	0.253	0.323	0.405	0.047	0.462	0.249	0.234	0.509	0.449	0.593	0.325	0.443	0.451	0.604	0.845	0.836	0.870	1.000	0.656	0.779	0.186
var KSC31	0.123	0.109	0.123	0.109	0.138	0.133	0.178	0.201	0.162	0.200	0.220	0.234	0.301	0.039	0.295	0.242	0.244	0.380	0.380	0.452	0.352	0.481	0.644	0.358	0.510	0.592	0.742	0.656	1.000	0.873	0.169
var KSC32	0.117	0.103	0.122	0.103	0.137	0.118	0.177	0.202	0.151	0.189	0.223	0.244	0.321	0.041	0.321	0.238	0.239	0.405	0.394	0.488	0.348	0.475	0.585	0.408	0.598	0.704	0.851	0.779	0.873	1.000	0.184
var KSC34	0.022	0.021	0.029	0.023	0.032	0.023	0.051	0.059	0.032	0.045	0.062	0.078	0.089	0.010	0.100	0.058	0.049	0.109	0.098	0.124	0.068	0.093	0.103	0.115	0.161	0.177	0.179	0.186	0.169	0.184	1.000

Table 6: 1-Minute Variance, Sensor to Lightning Distance Multivariate Correlation

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	Dist																														
	LM1	LM2	LM4	LM5	LM6	LM7	LM8	LM9	LM10	LM11	LM12	LM13	LM14	LM15	LM16	LM17	LM18	LM19	LM20	LM21	LM22	LM24	LM25	LM26	LM27	LM28	LM29	LM30	LM31	LM32	LM34
var KSC1	-0.136	-0.140	-0.135	-0.139	-0.137	-0.142	-0.134	-0.133	-0.139	-0.138	-0.135	-0.132	-0.133	-0.135	-0.130	-0.136	-0.138	-0.132	-0.134	-0.131	-0.135	-0.132	-0.127	-0.129	-0.126	-0.121	-0.125	-0.124	-0.122	-0.123	-0.123
var KSC2	-0.157	-0.162	-0.157	-0.162	-0.160	-0.165	-0.157	-0.156	-0.163	-0.162	-0.159	-0.155	-0.157	-0.159	-0.153	-0.161	-0.164	-0.157	-0.159	-0.157	-0.162	-0.159	-0.154	-0.153	-0.151	-0.146	-0.151	-0.150	-0.149	-0.149	-0.149
var KSC4	-0.140	-0.144	-0.139	-0.143	-0.141	-0.145	-0.138	-0.137	-0.143	-0.141	-0.139	-0.135	-0.136	-0.138	-0.133	-0.139	-0.140	-0.135	-0.136	-0.134	-0.136	-0.132	-0.127	-0.132	-0.128	-0.124	-0.127	-0.126	-0.123	-0.124	-0.125
var KSC5	-0.141	-0.144	-0.140	-0.144	-0.143	-0.147	-0.140	-0.139	-0.145	-0.144	-0.142	-0.138	-0.139	-0.142	-0.137	-0.143	-0.145	-0.140	-0.141	-0.139	-0.143	-0.140	-0.135	-0.136	-0.134	-0.130	-0.133	-0.132	-0.131	-0.132	-0.131
var KSC6	-0.158	-0.161	-0.158	-0.161	-0.160	-0.164	-0.157	-0.156	-0.162	-0.161	-0.158	-0.154	-0.155	-0.158	-0.152	-0.159	-0.161	-0.155	-0.157	-0.154	-0.157	-0.154	-0.148	-0.151	-0.148	-0.143	-0.147	-0.146	-0.144	-0.144	-0.144
var KSC7	-0.165	-0.169	-0.166	-0.170	-0.169	-0.173	-0.166	-0.166	-0.171	-0.170	-0.168	-0.165	-0.167	-0.169	-0.164	-0.171	-0.173	-0.167	-0.169	-0.167	-0.171	-0.169	-0.165	-0.163	-0.162	-0.158	-0.162	-0.161	-0.160	-0.160	-0.160
var KSC8	-0.151	-0.154	-0.150	-0.153	-0.151	-0.155	-0.148	-0.147	-0.153	-0.151	-0.149	-0.145	-0.145	-0.147	-0.143	-0.148	-0.149	-0.144	-0.145	-0.142	-0.144	-0.140	-0.134	-0.141	-0.137	-0.131	-0.134	-0.134	-0.130	-0.132	-0.132
var KSC9	-0.143	-0.145	-0.142	-0.145	-0.143	-0.146	-0.140	-0.139	-0.144	-0.142	-0.140	-0.137	-0.137	-0.139	-0.135	-0.139	-0.140	-0.136	-0.136	-0.134	-0.135	-0.131	-0.125	-0.133	-0.128	-0.123	-0.126	-0.126	-0.122	-0.123	-0.124
var KSC10	-0.151	-0.154	-0.151	-0.154	-0.153	-0.156	-0.151	-0.150	-0.155	-0.154	-0.153	-0.149	-0.151	-0.153	-0.148	-0.154	-0.156	-0.151	-0.152	-0.150	-0.153	-0.150	-0.146	-0.148	-0.145	-0.141	-0.145	-0.144	-0.142	-0.143	-0.143
var KSC11	-0.149	-0.152	-0.150	-0.152	-0.152	-0.154	-0.149	-0.149	-0.153	-0.152	-0.151	-0.148	-0.149	-0.150	-0.146	-0.151	-0.152	-0.148	-0.149	-0.147	-0.149	-0.146	-0.141	-0.145	-0.142	-0.138	-0.141	-0.140	-0.137	-0.138	-0.139
var KSC12	-0.151	-0.153	-0.151	-0.153	-0.152	-0.154	-0.150	-0.149	-0.154	-0.152	-0.151	-0.148	-0.148	-0.150	-0.146	-0.151	-0.151	-0.147	-0.148	-0.146	-0.147	-0.143	-0.137	-0.144	-0.140	-0.135	-0.138	-0.138	-0.134	-0.135	-0.136
var KSC13	-0.145	-0.146	-0.144	-0.146	-0.144	-0.146	-0.142	-0.140	-0.145	-0.143	-0.141	-0.138	-0.138	-0.139	-0.136	-0.139	-0.139	-0.136	-0.136	-0.133	-0.133	-0.129	-0.123	-0.133	-0.128	-0.122	-0.125	-0.125	-0.120	-0.122	-0.123
var KSC14	-0.156	-0.157	-0.156	-0.157	-0.156	-0.157	-0.154	-0.153	-0.156	-0.155	-0.154	-0.151	-0.150	-0.152	-0.148	-0.151	-0.151	-0.149	-0.149	-0.146	-0.145	-0.141	-0.134	-0.146	-0.141	-0.135	-0.137	-0.138	-0.132	-0.134	-0.135
var KSC15	-0.027	-0.027	-0.025	-0.026	-0.025	-0.027	-0.024	-0.023	-0.025	-0.024	-0.024	-0.022	-0.022	-0.023	-0.021	-0.023	-0.023	-0.021	-0.021	-0.020	-0.021	-0.019	-0.016	-0.020	-0.018	-0.015	-0.017	-0.017	-0.015	-0.015	-0.016
var KSC16	-0.141	-0.142	-0.140	-0.141	-0.140	-0.140	-0.138	-0.137	-0.139	-0.138	-0.137	-0.134	-0.133	-0.134	-0.131	-0.134	-0.133	-0.131	-0.131	-0.128	-0.127	-0.123	-0.117	-0.129	-0.124	-0.118	-0.120	-0.121	-0.115	-0.117	-0.118
var KSC17	-0.145	-0.147	-0.146	-0.148	-0.148	-0.148	-0.147	-0.146	-0.149	-0.148	-0.148	-0.146	-0.146	-0.147	-0.145	-0.148	-0.147	-0.146	-0.146	-0.144	-0.144	-0.142	-0.136	-0.143	-0.140	-0.136	-0.138	-0.138	-0.134	-0.136	-0.136
var KSC18	-0.161	-0.163	-0.163	-0.164	-0.164	-0.165	-0.163	-0.163	-0.165	-0.165	-0.164	-0.162	-0.163	-0.165	-0.162	-0.165	-0.165	-0.163	-0.164	-0.162	-0.163	-0.161	-0.155	-0.161	-0.158	-0.154	-0.157	-0.157	-0.153	-0.155	-0.155
var KSC19	-0.150	-0.150	-0.150	-0.151	-0.151	-0.150	-0.150	-0.149	-0.150	-0.150	-0.149	-0.147	-0.147	-0.148	-0.145	-0.147	-0.146	-0.145	-0.145	-0.143	-0.141	-0.137	-0.131	-0.143	-0.138	-0.133	-0.135	-0.136	-0.130	-0.132	-0.133
var KSC20	-0.155	-0.155	-0.156	-0.156	-0.157	-0.155	-0.156	-0.155	-0.156	-0.156	-0.156	-0.154	-0.154	-0.155	-0.152	-0.154	-0.153	-0.153	-0.152	-0.151	-0.149	-0.146	-0.139	-0.150	-0.146	-0.141	-0.143	-0.144	-0.138	-0.140	-0.141
var KSC21	-0.147	-0.147	-0.148	-0.147	-0.148	-0.145	-0.147	-0.147	-0.147	-0.146	-0.146	-0.145	-0.145	-0.145	-0.143	-0.144	-0.142	-0.143	-0.142	-0.140	-0.138	-0.134	-0.128	-0.141	-0.137	-0.132	-0.133	-0.134	-0.128	-0.130	-0.131
var KSC22	-0.155	-0.155	-0.156	-0.156	-0.157	-0.155	-0.157	-0.157	-0.156	-0.157	-0.157	-0.157	-0.157	-0.157	-0.156	-0.156	-0.155	-0.156	-0.155	-0.155	-0.152	-0.150	-0.145	-0.155	-0.152	-0.148	-0.150	-0.150	-0.145	-0.147	-0.148
var KSC24	-0.159	-0.158	-0.161	-0.159	-0.161	-0.157	-0.161	-0.162	-0.159	-0.160	-0.161	-0.161	-0.161	-0.160	-0.161	-0.159	-0.157	-0.159	-0.158	-0.158	-0.153	-0.151	-0.146	-0.160	-0.156	-0.152	-0.152	-0.154	-0.147	-0.149	-0.151
var KSC25	-0.149	-0.147	-0.151	-0.148	-0.150	-0.145	-0.151	-0.152	-0.148	-0.149	-0.150	-0.152	-0.150	-0.149	-0.152	-0.147	-0.144	-0.148	-0.147	-0.147	-0.141	-0.139	-0.134	-0.150	-0.147	-0.143	-0.142	-0.144	-0.137	-0.139	-0.141
var KSC26	-0.141	-0.140	-0.140	-0.140	-0.139	-0.138	-0.138	-0.137	-0.138	-0.137	-0.136	-0.135	-0.133	-0.134	-0.132	-0.132	-0.131	-0.130	-0.130	-0.128	-0.125	-0.122	-0.115	-0.129	-0.123	-0.118	-0.119	-0.120	-0.114	-0.116	-0.117
var KSC27	-0.133	-0.131	-0.132	-0.131	-0.131	-0.128	-0.131	-0.130	-0.129	-0.128	-0.129	-0.129	-0.127	-0.126	-0.126	-0.124	-0.123	-0.123	-0.122	-0.121	-0.117	-0.114	-0.108	-0.123	-0.118	-0.113	-0.113	-0.115	-0.108	-0.110	-0.112
var KSC28	-0.129	-0.126	-0.128	-0.126	-0.126	-0.122	-0.127	-0.126	-0.123	-0.123	-0.123	-0.124	-0.122	-0.121	-0.122	-0.118	-0.117	-0.118	-0.117	-0.115	-0.112	-0.109	-0.103	-0.119	-0.113	-0.108	-0.108	-0.110	-0.104	-0.105	-0.107
var KSC29	-0.135	-0.132	-0.135	-0.133	-0.133	-0.130	-0.134	-0.134	-0.131	-0.131	-0.132	-0.133	-0.131	-0.130	-0.131	-0.128	-0.126	-0.128	-0.127	-0.125	-0.121	-0.119	-0.113	-0.129	-0.124	-0.119	-0.119	-0.121	-0.114	-0.116	-0.118
var KSC30	-0.128	-0.126	-0.128	-0.126	-0.127	-0.123	-0.127	-0.127	-0.124	-0.124	-0.125	-0.125	-0.123	-0.122	-0.123	-0.120	-0.119	-0.120	-0.119	-0.117	-0.114	-0.111	-0.105	-0.120	-0.115	-0.110	-0.111	-0.112	-0.106	-0.108	-0.109
var KSC31	-0.133	-0.131	-0.134	-0.131	-0.132	-0.128	-0.134	-0.133	-0.129	-0.130	-0.131	-0.133	-0.131	-0.129	-0.131	-0.127	-0.125	-0.128	-0.126	-0.125	-0.121	-0.119	-0.113	-0.129	-0.125	-0.120	-0.120	-0.122	-0.115	-0.117	-0.119
var KSC32	-0.134	-0.132	-0.135	-0.132	-0.133	-0.129	-0.135	-0.134	-0.131	-0.131	-0.132	-0.133	-0.131	-0.130	-0.132	-0.127	-0.125	-0.128	-0.126	-0.125	-0.121	-0.118	-0.113	-0.129	-0.124	-0.120	-0.119	-0.121	-0.114	-0.116	-0.118
var KSC34	-0.051	-0.052	-0.047	-0.049	-0.046	-0.049	-0.044	-0.042	-0.046	-0.043	-0.041	-0.039	-0.038	-0.039	-0.036	-0.039	-0.039	-0.036	-0.036	-0.033	-0.034	-0.030	-0.025	-0.033	-0.028	-0.022	-0.025	-0.025	-0.021	-0.022	-0.023

# 4.4 Summary

The analysis showed there was little correlation between 1-minute mean EFM sensor readings and lightning/storm activity. The poor correlation between EFM readings and lightning activity also led to poor regression model generation. For the threshold model technique requested by the sponsor, lightning prediction based on a threshold value has no utility. While storm prediction rate can be as high as 74% at a threshold value of just 100 V/m, the false positive reporting rate shoots up to over 82%. Ideally one would want to, at a minimum, reduce the amount of false negative reporting, but this value only gets worse as the threshold increased.

Table 7 shows how the four different types of models compare in performance. Overall the best performing models used the standard least squares regression technique and the nominal logistic regression model techniques, which each were able to account for around 16% of the variance in the dataset, however these models do not explain enough of the variance to be of much utility.

Table	7: Regression	n Model Cor	nparison
	Best R <sup>2</sup>	TP rate	TN rate   TP
Method		(max)	rate (max)
Threshold		0.7439	0.1772
SLSR	0.1672		
NLR	0.1644	0.2001	0.985
NBR	0.046		

### **V.** Conclusions and Recommendations

#### **5.1 Conclusions of Research**

Lightning activity is an important natural phenomenon that occurs at a high rate on the Eastern Range. It affects processing operations as it relates to ensuring the safety of personnel and equipment on the range. Weather delays due to lightning can lead to monetary losses, loss of production, or cancellation and postponement of launch activities. Launch commit criteria violations lead to delayed launches and increases in launch costs (Merceret *et al.*, 2010). Therefore, it is important to identify other techniques that can assist in accurately predicting the occurrence of severe weather.

This research analyzed EFM sensor readings from 31 sensor sites at KSC to determine their ability to predict lightning activity. It analyzed the correlations between EFM sensor readings and lightning/storm activity. Regression models using a threshold analysis technique, standard least squares regression technique, nominal logistic regression technique, and negative binomial regression technique were all examined for each of the 31 sensor sites and as a centered mean value of all the sensor sites for lightning activity that might be occurring anywhere on station.

The attempts to establish correlation between the EFM sensor readings and lightning activity proved futile as pairwise correlations had values of less than 0.2 between the parameters. Table 7 shows that standard least squares regression model and nominal logistic regression model offered the best performance of the techniques applied. However, all modeling techniques failed to offer a good fit for the dataset.

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Table	7: Regression	n Model Con	nparison
	Best R <sup>2</sup>	TP rate	TN rate   TP
Method		(max)	rate (max)
Threshold		0.7439	0.1772
SLSR	0.1672		
NLR	0.1644	0.2001	0.985
NBR	0.046		

The study could not establish an EFM threshold reading value to predict lightning onset that maximized positive identification of storm onset, cessation, or clear weather while simultaneously reducing false reporting of clear weather at a rate better than what a trained meteorologist could report based on prior day activity.

### **5.2 Significance of Research**

This has been a thorough and exhaustive examination of the EFM and LDAR data. The techniques used were unable to establish a correlation between EFM sensor readings and lighting activity. This analysis leads to the conclusion that EFMs are not very useful in the prediction of or even indication of already occurring lightning activity.

# **5.3 Recommendations for Action**

After exhaustive studies, all with varying levels of success, most being unsuccessful, predicting lightning storm onset or cessation should not consider only the use of EFM sensor readings as a predictor variable for lightning activity.

#### **5.4 Recommendations for Future Research**

It may be beneficial to revisit creating a new negative binomial regression model that uses counts of the number of total lightning strikes occurring within each 1-minute time interval as an independent variable with a response variable of time ending. Other weather data may also help prove useful in predicting storm movements to give better prediction accuracy than EFM data alone.

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# 5.5 Summary

The primary goal of this research was to establish an EFM threshold value to predict the occurrence of lightning within a specified area proved unsuccessful. The multivariate techniques for correlation eluded to an inability to make predictions using EFM sensor readings due to low correlation values. A thorough analysis of the dataset showed there were no other relations recognized through threshold analysis and regression model building, with the best performing models only providing a goodness-of-fit  $R^2$  of approximately 0.16. The multitude of studies on this dataset should be enough to establish the case to stop looking at EFM sensors to make predictions on natural lightning events.

# Appendix A: Sample Working Dataset

Column #		1	2	3	4	5	F	1 7	/ 9	9	10	11	12	13	14	15	16
Column Label	Dat		- Time	KSC1	KSC2	KSC4	KSC5	KSC6	KSC7	KSC8	KSC9		SC11	KSC12	KSC13	KSC14	KSC15
Column Eaber	1	2013121	0:00:00	357.6893333	485.5706667		339.1666667			228.6213333		624,448	645.7586667		500.728		734,7613333
	2	2013121	0:01:00	373.8986667	479.9813333	324,9346667	336.1786667	224.0786667	455.8253333	271.984		575,4786667	591.084		475.42		647,2453333
	3	2013121	0:02:00	370.8666667	440.7186667	364.3693333	306.5	228,2946667	424.8986667	308.9	330.9813333	522.664	559.576		479.3026667		550.3386667
	4	2013121	0:03:00	331.5973333	422.728		277.6213333	207.1306667	402.9293333	344.5173333	320.2626667	487.88	532,1866667		476.652		493.6613333
	5	2013121	0:04:00	380.5453333	414.8826667	324.0706667	272.244			344.536		457,9333333	504,5093333		463.0053333		457.6866667
	6	2013121	0:05:00	350.7773333	402,268	388.3173333	253.156	200.188	418.656	319,936	302.676	427,7546667	500.8666667	442,5586667	403.8946667	NA	419,4506667
	7	2013121	0:06:00	395.2893333	381.6066667	354.216	246.2133333	190.2293333	424.032	310.3653333	292,5426667	402,344	463.8373333	416,5986667	358.9786667	NA	384,4506667
	8	2013121	0:07:00	418.1266667	392.6813333	344.728	237.8986667	201.512	434.9226667	318.6213333	278.16	387.1866667	425.6693333	369,428	386.0306667	NA	372
	9	2013121	0:08:00	393.364	388	299.1786667	233.128	195.9893333	429.94	314.236	280.1453333	373.372	403.5746667	346.428	388.6426667	NA	352.3226667
1	10	2013121	0:09:00	389.3186667	403.9573333	290.8066667	222.1866667	200.7066667	435.2773333	293.6546667	258.896	355.8866667	371.796	317.9813333	400.1106667	NA	339.8586667
Column #		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Column Label	KSC	C16	KSC17	KSC18	KSC19	KSC20	KSC21	KSC22	KSC24	KSC25	KSC26	KSC27 K	SC28	KSC29	KSC30	KSC31	KSC32
	1	602.7986667	825.848	484.1013333	1025.161333	677.1773333	988.8066667	399.0346667	573.8826667	1520.721333	NA	710.316	534.7586667	774.292	673.0986667	904.3506667	682.916
	2	632.1186667	759.24	445.464	950.288	566.8413333	947.9053333	369.6986667	492.7133333	1425.712	NA	792.0146667	512.1573333	709.844	650.856	866.5466667	632.368
	3	618.236	725.684	413.476	867.728	495.5213333	812.0466667	339.4266667	509.524	1351.976	NA	751.2813333	583.7986667	642.316	609.4706667	907.3386667	659.708
	4	571.152	674.4306667	404.7946667	807.2413333	475.652	779.5346667	308.9533333	501.1493333	1237.78	NA	714.1693333	499.6546667	571.728	564.1506667	870.42	642.4493333
	5	533.1253333	632.5306667	385.728	721.552	472.476	775.5346667	275.968	491.9133333	1102.585333	NA	678.236	366.228	540.2706667	539.8613333	825.612	553.5053333
	6	456.904	577.5213333	372.2573333	686.9466667	461.076	723.1346667	250.1653333	451.2453333	934.528	NA	645.5213333	384.124	496.664	505.656	780.828	546.8093333
	7	438.4693333	523.576	373.644	646.872	433.3466667	746.3386667	232.8493333	381.2786667	874.8413333	NA	647.4133333	431.8266667	428.616	449.1693333	713.556	493.0106667
	8	464.38	498.0733333	374.34	629.8866667	451.6226667	679.3493333	225.6933333	366.932	720.8733333	NA	640.0426667	327.0373333	379.72	409.584	697.7773333	442.0653333
	9	431.7293333	475.4746667	374.4973333	571.2493333	449.576	557.4866667	208.4026667	355.7373333	647.0386667	NA	568.86	366.92	344.5293333	352.0933333	NA	462.9253333
1	10	347.8706667	460.4413333	351.5586667	518.5586667	411.8826667	493.124	205.7853333	342.7066667	632.6693333	NA	516.1053333	326.6613333	309.936	333.7013333	557.9666667	403.324
Column #		33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Column Label	KSC	C34	abs.KSC1														
		C34	abs.KSC1	abs.KSC2	abs.KSC4	abs.KSC5	abs.KSC6	abs.KSC7	abs.KSC8	abs.KSC9	abs.KSC10	abs.KSC11 a	bs.KSC12	abs.KSC13	abs.KSC14	abs.KSC15	abs.KSC16
	1	785.5906667	abs.KSC1 357.6893333	abs.KSC2 485.5706667	abs.KSC4 378.7093333	abs.KSC5 339.1666667	abs.KSC6 237.76		abs.KSC8 228.6213333	abs.KSC9 380.6413333		abs.KSC11 a 645.7586667	bs.KSC12 757.9973333	abs.KSC13 500.728		abs.KSC15 734.7613333	abs.KSC16 602.7986667
	1 2														NA		
	1 2 3	785.5906667 661.1026667 628.184	357.6893333 373.8986667 370.86666667	485.5706667	378.7093333	339.1666667 336.1786667 306.5	237.76	493.1653333	228.6213333 271.984 308.9	380.6413333	624.448 575.4786667 522.664	645.7586667	757.9973333 664.2626667	500.728	NA NA	734.7613333	602.7986667 632.1186667 618.236
	1 2 3 4	785.5906667 661.1026667	357.6893333 373.8986667	485.5706667 479.9813333 440.7186667 422.728	378.7093333 324.9346667	339.1666667 336.1786667	237.76 224.0786667	493.1653333 455.8253333	228.6213333 271.984	380.6413333 353.592	624.448 575.4786667	645.7586667 591.084	757.9973333 664.2626667	500.728 475.42 479.3026667 476.652	NA NA NA NA	734.7613333 647.2453333	602.7986667 632.1186667 618.236 571.152
	1 2 3 4 5	785.5906667 661.1026667 628.184 590.4813333 576.7413333	357.6893333 373.8986667 370.8666667 331.5973333 380.5453333	485.5706667 479.9813333 440.7186667 422.728 414.8826667	378.7093333 324.9346667 364.3693333 329.0733333 324.0706667	339.1666667 336.1786667 306.5 277.6213333 272.244	237.76 224.0786667 228.2946667 207.1306667 193.348	493.1653333 455.8253333 424.8986667 402.9293333 408.0253333	228.6213333 271.984 308.9 344.5173333 344.536	380.6413333 353.592 330.9813333 320.2626667 306.552	624.448 575.4786667 522.664 487.88 457.933333	645.7586667 591.084 559.576 N 532.1866667 N 504.5093333 N	757.9973333 664.2626667 IA IA	500.728 475.42 479.3026667 476.652 463.0053333	NA NA NA NA NA	734.7613333 647.2453333 550.3386667 493.6613333 457.68666667	602.7986667 632.1186667 618.236 571.152 533.1253333
	1 2 3 4 5 6	785.5906667 661.1026667 628.184 590.4813333 576.7413333 530.1746667	357.6893333 373.8986667 370.86666667 331.5973333 380.5453333 350.7773333	485.5706667 479.9813333 440.7186667 422.728 414.8826667 402.268	378.7093333 324.9346667 364.3693333 329.0733333 324.0706667 388.3173333	339.1666667 336.1786667 306.5 277.6213333 272.244 253.156	237.76 224.0786667 228.2946667 207.1306667 193.348 200.188	493.1653333 455.8253333 424.8986667 402.9293333 408.0253333 418.656	228.6213333 271.984 308.9 344.5173333 344.536 319.936	380.6413333 353.592 330.9813333 320.2626667 306.552 302.676	624.448 575.4786667 522.664 487.88 457.933333 427.7546667	645.7586667 591.084 559.576 N 532.1866667 N 504.5093333 N 500.8666667	757.9973333 664.2626667 IA IA IA 442.5586667	500.728 475.42 479.3026667 476.652 463.0053333 403.8946667	NA NA NA NA NA NA	734.7613333 647.2453333 550.3386667 493.6613333 457.68666667 419.45066667	602.7986667 632.1186667 618.236 571.152 533.1253333 456.904
	1 2 3 4 5 6 7	785.5906667 661.1026667 628.184 590.4813333 576.7413333 530.1746667 498.3853333	357.6893333 373.8986667 370.8666667 331.5973333 380.5453333 350.7773333 395.2893333	485.5706667 479.9813333 440.7186667 422.728 414.8826667 402.268 381.6066667	378.7093333 324.9346667 364.3693333 329.0733333 324.0706667 388.3173333 354.216	339.1666667 336.1786667 306.5 277.6213333 272.244 253.156 246.2133333	237.76 224.0786667 228.2946667 207.1306667 193.348 200.188 190.2293333	493.1653333 455.8253333 424.8986667 402.9293333 408.0253333 408.0253333 418.656 424.032	228.6213333 271.984 308.9 344.5173333 344.536 319.936 310.3653333	380.6413333 353.592 330.9813333 320.2626667 306.552 302.676 292.5426667	624.448 575.4786667 522.664 487.88 457.933333 427.7546667 402.344	645.7586667 591.084 559.576 N 532.1866667 N 504.5093333 N 500.8666667 463.8373333	757.9973333 664.2626667 IA IA IA 442.5586667 416.5986667	500.728 475.42 479.3026667 476.652 463.0053333 403.8946667 358.9786667	NA NA NA NA NA NA NA	734.7613333 647.2453333 550.3386667 493.6613333 457.68666667 419.4506667 384.4506667	602.7986667 632.1186667 618.236 571.152 533.1253333 456.904 438.4693333
	1 2 3 4 5 6 7 8	785.5906667 661.1026667 628.184 590.4813333 576.7413333 530.1746667 498.3853333 521.1653333	357.6893333 373.8986667 370.8666667 331.5973333 380.5453333 350.7773333 395.2893333 418.12666667	485.5706667 479.9813333 440.7186667 422.728 414.8826667 402.268 381.6066667 392.6813333	378.7093333 324.9346667 364.3693333 329.0733333 324.0706667 388.3173333 354.216 344.728	339.1666667 336.1786667 306.5 277.6213333 272.244 253.156 246.2133333 237.8986667	237.76 224.0786667 228.2946667 207.1306667 193.348 200.188 190.229333 201.512	<ul> <li>493.1653333</li> <li>455.8253333</li> <li>424.8986667</li> <li>402.9293333</li> <li>408.0253333</li> <li>408.0253333</li> <li>418.656</li> <li>424.032</li> <li>434.9226667</li> </ul>	228.6213333 271.984 308.9 344.5173333 344.536 319.936 310.3653333 318.6213333	380.6413333 353.592 330.9813333 320.2626667 306.552 302.676 292.5426667 278.16	624.448 575.4786667 522.664 487.88 457.933333 427.7546667 402.344 387.1866667	645.7586667 591.084 559.576 N 532.1866667 N 504.5093333 N 500.8666667 463.8373333 425.6693333	757.9973333 664.2626667 IA IA IA 442.5586667 416.5986667 369.428	500.728 475.42 479.3026667 476.652 463.0053333 403.8946667 358.9786667 386.0306667	NA NA NA NA NA NA NA	734.7613333 647.2453333 550.3386667 493.6613333 457.6866667 419.4506667 384.4506667 372	602.7986667 632.1186667 618.236 571.152 533.1253333 456.904 438.4693333 464.38
	1 2 3 4 5 6 7 8 9	785.5906667 661.1026667 628.184 590.4813333 576.7413333 530.1746667 498.3853333 521.1653333 523.1973333	357.6893333 373.8986667 370.8666667 331.5973333 380.5453333 350.7773333 395.2893333 418.1266667 393.364	485.5706667 479.9813333 440.7186667 422.728 414.8826667 402.268 381.6066667 392.6813333 388	378.7093333 324.9346667 364.3693333 329.0733333 324.0706667 388.3173333 354.216 344.728 299.1786667	339.1666667 336.1786667 306.5 277.6213333 272.244 253.156 246.213333 237.8986667 233.128	237.76 224.0786667 228.2946667 207.1306667 193.348 200.188 190.229333 201.512 195.989333	493.1653333 455.8253333 424.8986667 402.929333 408.0253333 418.656 424.032 434.9226667 429.94	228.6213333 271.984 308.9 344.5173333 344.53 319.936 310.3653333 318.6213333 314.236	380.641333 353.592 330.9813333 320.2626667 306.552 302.676 292.5426667 278.16 280.1453333	624.448 575.4786667 522.664 487.88 457.933333 427.7546667 402.344 387.1866667 373.372	645.7586667 591.084 559.576 N 504.5093333 500.8666667 463.8373333 425.6693333 403.5746667	757.9973333 664.2626667 A A A 442.5586667 416.5986667 369.428 346.428	500.728 475.42 479.3026667 476.652 463.0053333 403.8946667 358.9786667 386.0306667 388.6426667	NA NA NA NA NA NA NA NA	734.7613333 647.2453333 550.3386667 493.6613333 457.6866667 384.4506667 384.4506667 322 352.3226667	602.7986667 632.1186667 618.236 571.152 533.125333 456.904 438.4693333 464.38 431.7293333
	1 2 3 4 5 6 7 8 9 10	785.5906667 661.1026667 628.184 590.4813333 570.7413333 530.1746667 498.3853333 521.1653333 523.1973333 435.748	357.6893333 373.8986667 370.8666667 331.5973333 380.5453333 350.7773333 395.2893333 418.1266667 393.364 389.3186667	485.5706667 479.9813333 440.7186667 422.728 414.8826667 402.268 381.606667 392.6813333 388 403.9573333	378.7093333 324.9346667 364.3693333 329.0733333 324.0706667 388.3173333 354.216 344.728 299.1786667 290.8066667	339.1666667 336.1786667 306.5 277.6213333 272.244 253.156 246.213333 237.8986667 233.128 222.18666667	237.76 224.0786667 228.2946667 207.1306667 193.348 200.188 190.229333 201.512 195.989333 200.7066667	493.1653333 455.8253333 424.8986667 402.929333 408.0253333 418.656 424.032 434.9226667 429.94 435.277333	228.6213333 271.984 308.9 344.5173333 344.53 319.936 310.3653333 318.6213333 314.236 293.6546667	380.6413333 353.592 330.9813333 320.2626667 306.552 302.676 292.5426667 278.16 280.1453333 258.896	624.448 575.4786667 522.664 487.88 457.933333 427.7546667 402.344 387.1866667 373.372 355.88666667	645.7586667 591.084 559.576 532.1866667 504.5093333 500.8666667 463.8373333 425.6693333 403.5746667 371.796	757.9973333 664.2626667 A A A 442.5586667 369.428 346.428 317.9813333	500.728 475.42 479.3026667 476.652 463.0053333 403.8946667 358.9786667 386.0306667 388.6426667 400.1106667	NA NA NA NA NA NA NA NA NA	734.7613333 647.2453333 550.3386667 493.6613333 457.6866667 384.4506667 384.4506667 372 352.3226667 339.8586667	602.7986667 632.1186667 618.236 571.152 533.125333 456.904 438.469333 464.38 431.7293333 347.8706667
Column #	1 2 3 4 5 6 7 8 9 10	785.5906667 661.1026667 628.184 590.4813333 530.1746667 498.385333 521.1653333 521.1653333 523.1973333 435.748 49	357.6893333 373.8986667 370.866667 331.5973333 380.5453333 350.7773333 395.2893333 418.1266667 393.364 389.3186667 50	485.5706667 479.9813333 440.7186667 422.728 414.8826667 402.268 381.6066667 392.681333 388 403.9573333 51	378.7093333 324.9346667 364.3693333 329.073333 324.0706667 388.3173333 354.216 344.728 299.1786667 290.8066667 52	339.1666667 336.1786667 306.5 277.6213333 272.244 253.156 246.213333 237.8986667 233.128 222.186667 53	237.76 224.0786667 228.2946667 193.344 200.188 190.2293333 201.512 195.989333 200.7066667 54	493.1653333 455.8253333 424.8986667 402.9293333 408.0253333 408.0253333 434.9226667 424.032 434.9226667 429.94 435.2773333 555	228.6213333 271.984 308.9 344.5173333 344.5173333 319.936 310.3653333 318.6213333 318.6213333 314.236 293.6546667 56	380.6413333 353.592 330.9813333 320.2626667 306.552 302.676 292.5426667 278.16 280.1453333 258.896 57	624.448 575.4786667 522.664 487.88 457.933333 427.7546667 402.344 387.1866667 377.372 355.8866667 58	645.7586667 591.084 559.576 N 504.509333 N 500.8666667 463.8373333 425.669333 403.5746667 371.796 59	757.997333 664.2626667 A A 442.5586667 369.428 346.428 346.428 317.9813333 600	500.728 475.42 479.302667 476.652 463.0053333 403.8946667 358.9786667 386.0306667 388.6426667 400.1106667 61	NA NA NA NA NA NA NA NA NA NA C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2 C2	734.7613333 647.2453333 550.3386667 493.6613333 457.6866667 384.4506667 384.4506667 384.4506667 3352.3226667 339.8586667 63	602.7986667 632.1186667 618.236 571.152 533.125333 456.904 438.4693333 464.38 431.7293333 347.8706667 64
	1 2 3 4 5 6 7 8 9 10	785.5906667 661.1026667 628.184 590.4813333 576.7413333 576.7413333 576.7413333 571.1653333 521.1653333 521.1653333 435.748 435.748 49 s.KSC17	357.6893333 373.8986667 370.8666667 330.545333 380.5453333 350.7773333 395.2893333 418.1266667 393.364 389.3186667 50 abs.KSC18	485.5706667 479.981333 440.7186667 422.728 414.882667 392.681333 381.6066667 392.681333 388 403.957333 51 abs.KSC19	378.7093333 324.9346667 364.3693333 329.073333 324.0706667 388.3173333 354.216 344.728 299.1786667 299.8066667 52 abs.KSC20	339.1666667 336.1786667 306.5 277.621333 272.244 233.156 246.213333 237.8986667 233.128 222.1866667 53 abs.KSC21	233.76 224.0786667 228.2946667 193.344 200.188 190.229333 201.512 195.989333 200.7066667 56 abs.KSC22	493.1653333 455.8253333 424.8986667 402.9293333 408.0253333 408.0253333 408.0253333 408.0253333 408.0253333 408.0253333 408.025333 429.94 435.2773333 55 abs.KSC24	228.6213333 271.984 308.9 344.517333 344.536 310.3653333 318.6213333 318.6213333 318.6213333 318.6213333 318.6213333 518.625 293.6546667 56 295.654667 55	380.6413333 353.592 330.9813333 320.262667 230.676 292.5426667 278.16 280.1453333 258.896 57 abs.KSC26	624.448 575.4786667 522.664 487.88 457.933333 427.7546667 402.344 387.1866666 373.372 355.8866667 55.8866667 55.8866667 55.8866667 55.8866667 55.886667 55.886667 55.886667 55.886667 55.88657 55.88657 55.88557 55.855577 55.85557 55.855577 55.855577 55.855577 55.855577 55.855577 55.855577 55.855577 55.855577 55.855577 55.855577 55.855577 55.855577 55.855577 55.855577 55.855577 55.8555777 55.8555777 55.8555777 55.8555777 55.8555777 55.85557777 55.85557777 55.85557777757777777777	645.7586667 551.084 559.576 N 532.1866667 N 504.5093333 N 403.837333 403.5746667 371.796 59 59 abs.KSC28 a	757.997333 664.2626667 A A A 442.5586667 369.428 346.428 317.981333 60 bs.KSC29	500.728 475.42 479.302667 476.652 463.0053333 403.8946667 358.9786667 386.0306667 388.6426667 400.1106667 61 abs.KSC30	NA NA NA NA NA NA NA NA NA C2 abs.KSC31	734.7613333 647.2453333 550.3386667 493.661333 457.6866667 419.4506667 384.4506667 384.4506667 323.9286667 352.3226667 63 abs.KSC32	602.7986667 632.1186667 618.236 571.152 533.125333 456.904 438.4693333 464.38 431.7293333 347.870667 64 abs.KSC34
Column #	1 2 3 4 5 6 7 8 9 10	785.5906667 661.1026667 628.184 590.481333 576.741333 576.741333 521.1653333 521.1653333 523.1973333 435.748 49 9.s.KSC17 825.848	357.6893333 373.8986667 370.8666667 331.5973333 380.5453333 390.7773333 395.7773333 395.2893333 418.1266667 393.364 389.3186667 500 obs.KSC18 484.1013333	485.5706667 479.9813333 440.7186667 422.728 414.8826667 402.268 381.6066667 392.6813333 388 403.9573333 51 abs.KSC19 1025.161333	378.7093333 324.9346667 364.3693333 329.0733333 324.0706667 388.3173333 354.216 344.728 299.1786667 290.8066667 52 abs.KSC20 677.1773333	339.1666667 336.1786667 306.5 277,6213333 272.244 253.156 246.213333 237.8986667 233.128 222.1866667 53 abs.KSC21 988.8066667	237.76 224.0786667 208.2946667 193.346 200.188 190.229333 200.512 195.989333 200.7066667 54 abs.KSC22 399.0346667	493.1653333 455.8253333 424.8986667 402.9293333 408.025333 408.025333 408.0253333 408.02533 408.02533 409.02533 409.02533 409.02533 409.02533 409.02533 409.02533 409.02533 409.02533 409.02533 409.02533 409.02533 400.02	228.6213333 271.984 308.9 344.5173333 344.536 319.936 310.365333 318.621333 318.621333 318.621333 318.621333 318.221333 318.221333 314.236 293.6546667 566 585.KSC25	380.6413333 353.592 330.981333 320.2626667 306.552 302.676 292.5426667 292.5426667 292.5426667 292.5426667 292.542665 57 abs.KSC26 NA	624.445 575.4786667 522.664 487.88 457.933333 427.7546667 373.372 355.8866667 373.372 355.8866666 373.372 355.8866667 373.372 355.886667 373.372 355.886667 373.372 355.886667 373.372 355.886667 373.372 355.88667 373.372 355.88667 373.372 355.8867 373.372 355.8867 373.372 355.8867 373.372 355.8867 373.372 355.8867 373.372 355.8867 373.372 355.8867 373.372 355.8867 373.372 355.8867 373.372 355.8867 373.372 355.8867 373.372 355.8867 373.372 355.8867 373.372 355.8867 355.8867 355.8867 355.8867 355.8867 355.8867 355.8867 355.8867 355.8867 355.8867 355.8867 355.8867 355.8867 355.8867 355.8867 355.8867 355.8867 357.8867 355.857 355.8577355.857 355.8577 355.8577 355.8577 355.8577355.8577 355.8577 355.8577 355.8577 355.8577355.8577 355.8577 355.8577 355.8577 355.8577 355.85777 355.85777 355.85777 355.857777777777777777777777777777777777	645.7586667 591.084 559.576 N 532.1866667 N 504.5093333 N 500.866667 463.837333 403.5746667 371.796 5 5 5 5 5 5 5 5 5 5 5 5 8 5 34.7586667	757.9973333 664.2626667 A A A 442.5586667 416.5986667 369.428 346.428 317.981333 60 bs.KSC29 774.292	500.728 475.42 479.302667 476.652 463.0053333 403.8946667 388.6926667 388.6426667 400.1106667 61 abs.KSC30 673.0986667	NA NA NA NA NA NA NA NA NA NA C62 abs.KSC31 904.3506667	734.7613333 647.2453333 550.3386667 493.6613333 457.6866667 419.4506667 334.4506667 332.3226667 339.8586667 63 abs.KSC32 682.916	602.7986667 632.1186667 618.236 577.152 533.1253333 456.904 438.469333 464.38 431.7293333 347.8706667 64 85.KSC34 785.5906667
Column #	1 2 3 4 5 6 7 8 9 10	785.5906667 661.1026667 628.184 590.481333 576.7413333 530.1746667 498.3853333 521.1653333 523.1973333 435.748 49 s.KSC17 825.848 759.24	357.6893333 373.8986667 370.8666667 331.5973333 380.5453333 350.7773333 350.7773333 352.893333 418.1266667 393.364 389.3188667 50 abs.KSC18 484.1013333 445.464	485.5706667 479.981333 440.7186667 422.728 414.8826667 392.6813333 388 403.9573333 51 abs.KSC19 1025.161333 950.288	378.7093333 324.9346667 364.369333 324.0706667 388.3173333 334.216 344.728 299.1786667 52 abs.KSC20 677.1773333 566.8413333	339.1666667 336.1786667 277.621333 272.244 253.156 246.213333 237.8986667 233.128 222.1866667 53 abs.KSC21 988.806667 988.806667	237.76 224.0786667 228.2946667 207.1306667 193.344 200.188 190.229333 201.512 195.989333 200.7066667 54 abs.KSC22 399.0346667 369.688667	493.165333 455.825333 424.898666 402.929333 408.025333 408.025333 434.922666 424.032 434.922666 429.94 553.882666 427.7333	228.621333 271.944 308.9 344.517333 344.536 319.936 310.365333 318.621333 318.621333 318.621333 318.621333 318.255456667 56 abs.KSC25 1520.721333 1425.712	380.6413333 353.592 330.9813333 320.2626667 306.552 322.5426667 278.16 280.1453333 258.896 57 abs.KSC26 NA NA	624.442 575.4786665 487.88 457.933333 427.754665 373.375 373.375 355.886666 58 abs.KSC27 710.316 792.0146667	645.7586667 551.084 559.576 N 504.5093333 400.866667 N 463.8373333 403.5746667 371.796 59 abs.KSC28 a 534.7586667 512.1573333	757.997333 664.2626667 A A A 442.5586667 416.5986667 369.428 346.428 317.981333 60 bs.KSC29 774.292 709.844	500.728 475.42 479.3026667 476.652 463.005333 403.8946667 358.9786667 386.0306667 386.0306667 400.1106667 61 abs.KSC30 673.0986667 650.856	NA NA NA NA NA NA NA NA NA Soloco Sol	734.7613333 647.2453333 550.3386667 493.6613333 457.6866667 384.4506667 384.4506667 339.4506667 339.4506667 339.8586667 63 abs.KSC32 682.916 632.368	602.7986667 632.1186667 618.236 571.152 533.125333 456.904 438.469333 464.38 431.729333 347.8706667 64 abs.KSC34 785.5906667 661.1026667
Column #	1 2 3 4 5 6 7 8 9 10	785.5906667 661.1026667 628.184 590.4813333 530.1746667 498.3853333 521.1653333 521.1653333 523.1973333 435.748 495.85333 435.748 499 s.KSC17 825.848	357.6893333 373.8986667 370.8666667 331.597333 380.545333 380.545333 380.777333 395.289333 418.1266667 393.364 389.3186667 393.346 389.318667 50 abs.KSC18 484.101333 445.464 413.476	485.5706667 479.981333 440,7186667 422.728 414.8826667 392.681333 388 403.957333 51 abs.KSC19 1025.16133 950.288 867.728	378.7093333 324.9346667 364.369333 329.073333 324.0706667 388.3173333 354.216 344.728 299.1786667 299.1786667 52 abs.KSC20 677.177333 566.8413333 495.5213333	339.1666667 336.1786667 206.5 277.6213333 272.244 253.156 246.213333 237.8986667 233.128 222.1866667 53 abs.KSC21 988.8066667 947.9053333 812.0466667	237.76 224.0786667 207.1306667 193.346 200.188 190.229333 201.512 195.989333 201.512 195.989333 200.706667 54 399.0346667 399.0346667 399.4266667	493.165333 455.825333 424.8986667 402.929333 408.025333 408.025333 434.9226667 429.94 435.277333 55 abs.KSC24 573.8826667 492.713333 509.524	228.621333 271.984 308.9 344.517333 314.536 310.365333 318.621333 318.621333 314.236 293.654667 5 abs.KSC25 1520.72133 1425.712 1351.976	380.6413333 353.592 330.981333 320.262667 306.552 302.676 292.5426667 278.16 280.1453333 258.896 57 abs.KSC26 NA NA NA	624.442 575.4786666 487.88 457.933333 427.754666 373.377 355.886667 373.377 355.886667 5 8b5.KSC27 710.316 792.014666 751.281333	645.7586667 551.084 559.576 N 532.1866667 N 504.5093333 N 500.866667 A 463.8373333 403.574667 371.796 59 abs.KSC28 a 534.758667 512.1573333 583.7986667	757.997333 664.2626667 A A 442.5586667 369.428 346.428 346.428 317.981333 60 bs.KSC29 774.292 709.844 642.316	500.728 475.42 479.302667 476.652 463.005333 403.894667 386.0306667 388.6426667 400.1106667 61 abs.KSC30 673.0986667 650.856 609.4706667	NA NA NA NA NA NA NA NA NA C2 abs.KSC31 904.3506667 907.3386667	734.7613333 647.2453333 457.2453333 457.6866667 493.6613333 457.6866667 384.4506667 384.4506667 384.4506667 389.858667 399.858667 633.98586667 632.368 659.708	602.7986667 632.1186677 618.236 577.152 533.1253333 465.904 438.4693333 464.38 431.7293333 347.8706667 64 abs.KSC34 785.590667 68.184
Column #	1 2 3 4 5 6 7 8 9 10	785.5906667 661.1026667 628.184 590.4813333 550.7413333 530.1746667 498.3853333 521.1653333 521.973333 435.748 435.748 495.85C17 825.848 759.24 425.684 674.4306667	357.6893333 373.8986667 370.8666667 331.5973333 380.5453333 395.2893333 395.2893333 395.2893333 395.2893333 418.1266667 393.364 389.3186667 0 abs.KSC18 484.1013333 445.464 413.476 404.7946667	485.5706667 479.981333 440.7186667 422.728 414.8826667 402.268 381.6066667 392.681333 388 403.9573333 51 abs.KSC19 1025.161333 950.288 867.728 807.241333	378.7093333 324.9346667 364.369333 329.0733333 324.0706667 388.3173333 354.216 344.728 299.1786667 290.8066667 290.8066667 52 abs.KSC20 677.1773333 566.8413333 566.8413333 495.5213333	339.1666667 336.1786667 306.5 277.6213333 272.244 253.156 246.213333 237.8986667 233.128 222.1866667 988.8066667 947.905333 812.0466667 779.5346667	237.76 224.0786667 208.2946667 193.346 200.188 190.2293333 200.512 195.9893333 200.7066667 399.0346667 399.0346667 399.0346667 399.4266667 308.953333	493.165333 455.825333 424.8986667 402.929333 408.02533 408.02533 409.025667 409.025667 409.0256 409.02567 409.02567 409.02567 409.02567 409.02567 409.02567 409.02567 409.02567 409.02567 409.02567 409.02577 409.02577 409.025	228.6213333 271.984 308.9 344.5173333 344.536 310.3653333 318.6213333 318.6213333 318.6213333 318.6213333 318.6213333 318.6213333 1425.712 1520.721333 1425.712 1351.976 1237.78	380.6413333 353.502 330.9813333 320.2626667 292.5426667 292.5426667 292.5426667 292.5426667 292.5426667 258.1453333 258.896 57 abs.KSC26 NA NA NA	624.445 575.4786664 487.88 457.933333 427.7546661 373.377 355.886667 58 abs.KSC27 710.316 792.0146667 751.281333 714.169333	645.7586667 559.084 559.576 N 532.1866667 N 504.5093333 N 500.8666667 463.837333 403.5746667 371.796 59 abs.KSC28 a 534.7586667 512.1573333 583.7986667 499.6546667	757.997333 664.2626667 A A 442.5586667 369.428 346.5986667 369.428 317.981333 60 bs.KSC29 774.292 779.844 642.316 571.728	500.728 475.42 479.302667 476.652 463.0053333 403.8946667 358.9786667 338.6426667 400.1106667 61 abs.KSC30 673.0986667 650.856 609.4706667 564.1506667	NA NA NA NA NA NA NA NA NA Abs. KSC31 904.3506667 866.5466667 907.3386667 870.42	734.7613333 647.2453333 550.3386667 493.6613333 457.6866667 319.4506667 332.3226667 339.8586667 339.8586667 339.8586667 662.368 659.708 642.4493333	602.7986667 632.1186667 618.236 577.152 533.125333 456.904 438.469333 464.38 431.729333 347.870667 64 ab5.KSC34 785.5906667 661.1026667 628.184 590.481333
Column #	1 2 3 4 5 6 7 8 9 10	785.5906667 661.1026667 628.184 590.481333 530.1746667 498.385333 521.1653333 521.1653333 523.197333 435.748 49 s.KSC17 825.848 759.24 725.848 674.4306667 632.5306667	357.6893333 373.8986667 370.8866667 331.5973333 380.5453333 350.7773333 350.7773333 350.7773333 353.289333 418.1266667 393.346667 50 abs.KSC18 484.1013333 445.464 413.476 404.7946667 385.728	485.5706667 479.981333 440.718667 422.728 414.882667 402.268 381.606667 392.6813333 51 abs.KSC19 1025.161333 950.288 867.728 807.241333 721.552	378.7093333 324.9346667 364.369333 324.0706667 388.3173333 334.216 344.728 299.178667 290.8066667 52 abs.KSC20 677.1773333 566.8413333 495.5213333 495.5213333	339.1666667 336.1786667 277.621333 272.244 253.156 246.213333 237.8986667 233.128 222.1866667 988.8066667 998.8066667 779.5346667 775.5346667	237.76 224.0786667 228.2946667 207.130667 193.344 200.188 190.229333 201.512 195.989333 200.7066667 399.0346667 369.6986667 339.4266666 369.69846667 339.4266667 339.4266667 339.4266667 339.4266667 339.4266667	493.165333 455.825333 424.8986667 402.929333 408.025333 434.9226667 429.94 435.277333 555 abs.KSC24 573.882667 492.713333 509.524 501.149333 491.913333 491.913333	228.621333 271.944 308.9 344.517333 344.536 319.936 310.365333 318.621333 318.621333 318.621333 318.621333 318.621333 314.236 565555 56657 1520.721333 1425.712 1351.976 1237.77 1102.58533	380.6413333 353.592 330.9813333 320.2626667 230.575 222.5426667 278.16 280.1453333 258.896 57 abs.KSC26 NA NA NA NA NA	624.445 575.4786667 487.88 457.933333 427.7546667 373.377 355.886666 58 abs.KSC27 710.316 792.0146667 751.281333 7678.233	645.7586667 551.084 559.576 N 504.5093333 400.8666667 N 500.8666667 N 463.8373333 425.6693333 403.5746667 371.796 59 abs.KSC28 a 534.7586667 512.1573333 583.7986667 499.6546667 366.228	757.997333 664.2626667 A A 442.5586667 416.5986667 369.428 346.428 317.981333 60 bs.KSC29 774.292 709.844 642.316 571.728 540.2706667	500.728 475.42 479.3026667 476.652 463.005333 403.8946667 386.0306667 386.0306667 388.6426667 61 abs.KSC30 673.0986667 650.856 699.4706667 564.1506667 593.861333	NA NA NA NA NA NA NA NA NA Sos(652 866,5466667 907.3386667 870.42 870.42 825.612	734.7613333 647.2453333 550.3386667 493.6613333 457.6866667 384.4506667 338.4506667 339.8586667 339.8586667 339.8586667 632.368 6632.368 6632.368 659.708 642.4493333 553.5053333	602.7986667 613.1186667 618.236 571.152 533.125333 456.904 438.469333 4431.729333 4431.729333 347.870667 643.5850667 651.1026667 661.1026667 661.1026667 661.3333 576.7413333
Column #	1 2 3 4 5 6 7 8 9 10	785.5906667 661.1026667 628.184 590.4813333 576.7413333 530.1746667 498.3853333 521.1653333 521.1653333 521.1653333 435.748 498.345333 435.748 49 s.KSC17 825.848 759.24 725.684 674.4306667 632.5306667 577.5213333	357.6893333 373.8986667 370.8666667 370.866667 331.5973333 380.5453333 380.5453333 395.2893333 418.1266667 393.364 389.3186667 393.364 389.3186667 50 abs.KSC18 484.1013333 445.464 413.476 404.7946667 385.728	485.5706667 479.981333 440,718667 422.728 414.882667 392.681333 388 403.957333 51 1025.16133 950.288 867.728 807.241333 721.552 686.9466667	378.7093333 324.9346667 364.3693333 324.0706667 388.3173333 3354.216 344.728 299.1786667 290.8066667 52 abs.KSC20 677.1773333 566.8413333 495.5213333 495.5213333 475.652 472.476 461.076	339.1666667 336.1786667 277.6213333 272.244 253.156 246.213333 237.8986667 233.128 222.1866667 33 abs.KSC21 988.8066667 779.53346667 775.5346667 775.5346667	237.76 224.0786667 207.1306667 193.34 200.188 190.229333 201.512 195.989333 200.7066667 309.0386667 339.0346667 339.4266667 339.4266667 339.4266667 308.95333 2775.966 250.165333	493.165333 455.825333 424.8986667 402.929333 408.025333 408.025333 434.9226667 429.94 435.277333 55 abs.KSC24 573.8826667 492.713333 509.524 509.5254 509.525555555555555555555555555555555555	228.621333 271.944 308.9 344.517333 344.536 319.936 310.365333 318.621333 318.621333 318.621333 318.621333 318.621333 314.236 293.6546665 66 abs.KSC25 1520.72133 1425.712 1351.976 1237.78 1102.85333 934.528	380.6413333 353.592 330.9813333 320.2626667 230.6552 302.676 222.5426667 278.16 280.1453333 28.896 57 abs.KSC26 NA NA NA NA NA NA	624.442 575.4786667 487.88 457.933333 427.754667 373.377 355.8866667 373.377 355.8866667 373.377 355.8866667 373.377 710.316 732.0146667 751.281333 678.232 678.232 678.232 678.232	645.7586667 551.084 559.576 N 532.186667 N 504.5093333 N 500.866667 A 463.8373333 425.6693333 403.574667 371.796 59 abs.KSC28 a 534.7586667 512.1573333 583.7986667 499.5546667 499.5546667 366.228 384.124	757.997333 664.2626667 A A 442.5586667 369.428 369.428 346.428 317.981333 60 bs.KSC29 774.292 709.844 642.316 571.728 540.2706667 496.664	500.728 475.42 479.302667 476.652 463.005333 403.8946667 388.6326667 388.642667 400.1106667 61 abs.KSC30 673.0986667 650.856 609.4706667 5539.861333 505.656	NA NA NA NA NA NA NA NA NA C2 abs.KSC31 904.3506667 907.3386667 866.5466667 907.3386667 870.42 825.612 780.828	734.7613333 647.2453333 550.3386667 493.6613333 457.6866667 384.4506667 384.450667 383.9858667 633.9858667 632.322 682.916 632.368 659.708 642.4493333 553.505333 564.809333	602.7986667 612.1186667 618.236 571.152 533.125333 464.38 431.729333 347.870667 64 abs.KSC34 785.5906667 651.1026667 628.184 590.481333 576.7413333 530.1746667
Column #	1 2 3 4 5 6 7 8 9 10	785.5906667 661.1026667 628.184 590.4813333 550.4813333 550.7413333 531.14563333 521.1653333 521.1653333 523.1973333 435.748 49 s.KSC17 825.848 759.24 759.24 759.24 674.4306667 632.5306667 577.5213333 523.576	357.6893333 373.8986667 370.8666667 331.5973333 380.5453333 395.2893333 418.1266667 393.364 389.3186667 393.364 389.3186667 50 abs.KSC18 484.1013333 445.464 413.476 404.7946667 385.728 372.2573333 373.644	485.5706667 479.9813333 440,7186667 422.728 414.8826667 392.6813333 388 403.9573333 51 abs.KSC19 1025.161333 950.288 867.728 807.241333 721.552 686.9466667 646.872	378.7093333 324.9346667 364.369333 329.0733333 324.0706667 388.3173333 354.216 344.728 299.1786667 290.8066667 290.8066667 52 abs.KSC20 677.177333 566.8413333 566.8413333 495.5213333 495.5213333	339.1666667 336.1786667 306.5 277.6213333 272.244 253.156 246.213333 237.8986667 233.128 222.1866667 338.806667 798.8066667 779.5346667 775.5346667 775.5346667 775.5346667 774.5346667	237.76 224.0786667 208.2946667 193.348 200.188 190.229333 201.512 195.989333 200.706667 399.0346667 399.0346667 309.03466667 309.03466667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.698667 309.698667 309.698667 309.698667 309.698667 309.698667 309.698667 309.698667 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.6987 309.69867 309.69867 309.6987 309.69	493.165333 455.825333 424.898667 402.929333 408.025333 408.025333 408.025333 408.025333 408.025333 434.922667 429.94 435.277333 505.24 573.882667 573.882667 505.24 501.149333 491.913333 491.913333 381.2786667	228.6213333 271.984 308.9 344.5173333 344.536 310.3653333 318.6213333 318.6213333 318.6213333 318.23654667 293.654667 1520.721333 1425.712 1351.976 1237.78 1102.585333 934.522 874.8413333	380.6413333 353.592 330.9813333 320.2626667 292.5426667 292.5426667 292.5426667 280.1453333 258.896 57 abs.KSC26 NA NA NA NA NA NA NA	624.445 575.4786667 407.88 457.933333 427.7546667 373.377 355.886667 792.0146667 792.0146667 792.014667 792.014663 792.014663 675.2333 678.233 675.2333 645.521333 647.413333	645.7586667 551.084 559.576 N 532.1866667 N 504.5093333 N 403.574667 371.796 59 abs.KSC28 a 534.7586667 59 abs.KSC28 a 534.7586667 499.6546667 366.228 384.124 431.8266667	757.997333 664.2626667 A A 442.5586667 369.428 346.428 346.428 317.981333 60 bs.KSC29 774.292 779.844 642.316 571.728 540.270667 496.664 428.616	500.728 475.42 479.302667 476.652 463.0053333 403.8946667 388.0420667 388.6420667 388.6420667 61 abs.KSC30 673.098667 650.856 650.856 659.4700667 554.1506667 539.861333 505.656 449.169333	NA NA NA NA NA NA NA NA NA 262 3bs.KSC31 904.3506667 866.5466667 907.3386667 870.42 825.611 780.828 713.556	734.7613333 647.2453333 550.3386667 493.6613333 457.6866667 3184.4506667 339.4506667 339.858667 632.368 659.708 642.4493333 553.5053333 546.8093333 433.0106667	602.7986667 632.1186667 618.236 577.152 533.1253333 456.904 438.4693333 464.38 431.7293333 347.870667 661.1026667 628.184 590.4813333 576.741333 530.1746667 498.3853333
Column #	1 2 3 4 5 6 7 8 9 10	785.5906667 661.1026667 628.184 590.481333 576.7413333 530.1746667 498.3853333 521.1653333 523.1973333 523.1973333 435.748 49 s.KSC17 825.848 759.24 759.2576 757.273333	357.6893333 373.8986667 370.8666667 311.5973333 380.5453333 350.7773333 350.7773333 350.7773333 350.2893333 418.1266667 50 abs.KSC18 484.1013333 445.464 413.476 404.7946667 385.728 372.2573333 474.34 373.644 374.34	485.5706667 479.9813333 440.7186667 422.728 414.882667 402.268 381.6066667 392.6813333 51 abs.KSC19 1025.161333 950.288 867.728 807.2413333 721.552 686.9466667 644.872 629.8866667	378.7093333 324.9346667 364.3693333 324.0706667 388.3173333 3342.216 344.728 299.178667 52 abs.KSC20 677.1773333 566.8413333 566.8413333 495.5213333 566.8413333 495.5213333 566.841676 472.476 451.6226667	339.1666667 336.1786667 206.5 277.621333 272.244 253.156 246.213333 237.8986667 233.128 222.1866667 947.905333 812.0466667 779.5346667 775.5346667 775.5346667 769.33836667 679.3493333	237.76 224.0786667 228.2946667 207.1306667 193.344 200.188 190.229333 201.512 195.9893333 200.7066667 369.6986667 369.6986667 369.6986667 369.6986667 369.6986667 369.6986667 369.6986667 369.0346666 369.053333 275.966 250.1653333 232.849333 222.6693333	493.165333 455.825333 424.8986667 402.929333 408.025333 434.9226667 429.94 434.9226667 429.94 435.277333 555 abs.KSC24 573.882667 492.713333 509.524 573.882667 492.713333 509.524 511.493333 491.913333 451.245333 451.245333 66.932	228.621333 271.944 306.9 344.517333 344.536 319.936 310.365333 318.621333 318.621333 318.621333 318.621333 318.621333 293.6546667 566 350.721333 1425.712 1351.976 1237.76 1102.58533 934.522 874.841333 720.873333	380.6413333 353.592 330.9813333 320.2626667 202.5426667 228.1622 280.1453333 258.896 57 abs.KSC26 NA NA NA NA NA NA NA NA NA NA	624.445 575.4786667 487.88 457.933333 427.7546667 373.377 355.886666 58 abs.KSC27 710.316 792.0146667 751.281333 678.233 647.521333 647.413333 640.0426667	645.7586667 551.084 559.576 N 504.5093333 405.6667 371.796 59 abs.KSC28 a 534.7586667 512.1573333 583.7986667 512.1573333 583.7986667 366.228 384.124 431.826667 327.0373333	757.997333 664.2626667 A A 442.5586667 416.5986667 369.428 346.428 317.981333 60 bs.KSC29 774.292 709.844 642.316 571.728 540.2706667 495.654 379.72	500.728 475.42 479.3026667 476.652 463.005333 403.8946667 388.0306667 388.6306667 388.6426667 61 abs.KSC30 673.0986667 650.856 69.4706667 554.1506667 554.1506667 559.861333 505.656	NA NA NA NA NA NA NA NA NA NA Soscieta 866.546667 870.42 825.612 780.828 713.556 697.777333	734.761333 647.245333 550.3386667 493.661333 457.6866667 384.4506667 338.4506667 339.858667 6335.23226667 339.858667 633.858667 632.368 659.708 642.493333 553.5053333 553.5053333 554.8093333	602.7986667 613.1186667 618.236 571.152 533.125333 456.904 438.469333 464.38 431.729333 347.870667 64 abs.KSC34 785.590667 661.1026667 661.1026667 661.1026667 661.3333 576.741333 570.741333 530.1746667 498.385333 531.1746657
Column # Column Label	1 2 3 4 5 6 7 8 9 10	785.5906667 661.1026667 628.184 590.4813333 550.4813333 550.7413333 531.14563333 521.1653333 521.1653333 523.1973333 435.748 49 s.KSC17 825.848 759.24 759.24 759.24 674.4306667 632.5306667 577.5213333 523.576	357.6893333 373.8986667 370.8666667 331.5973333 380.5453333 395.2893333 418.1266667 393.364 389.3186667 393.364 389.3186667 50 abs.KSC18 484.1013333 445.464 413.476 404.7946667 385.728 372.2573333 373.644	485.5706667 479.9813333 440,7186667 422.728 414.8826667 392.6813333 388 403.9573333 51 abs.KSC19 1025.161333 950.288 867.728 807.241333 721.552 686.9466667 646.872	378.7093333 324.9346667 364.369333 329.0733333 324.0706667 388.3173333 354.216 344.728 299.1786667 290.8066667 290.8066667 52 abs.KSC20 677.177333 566.8413333 566.8413333 495.5213333 495.5213333	339.1666667 336.1786667 206.5 277.621333 272.244 253.156 246.213333 237.8986667 233.128 222.1866667 947.905333 812.0466667 779.5346667 775.5346667 775.5346667 769.33836667 679.3493333	237.76 224.0786667 208.2946667 193.348 200.188 190.229333 201.512 195.989333 200.706667 399.0346667 399.0346667 309.03466667 309.03466667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.6986667 309.698667 309.698667 309.698667 309.698667 309.698667 309.698667 309.698667 309.698667 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.69867 309.6987 309.69867 309.69867 309.6987 309.69	493.165333 455.825333 424.898667 402.929333 408.025333 408.025333 408.025333 408.025333 408.025333 434.922667 429.94 435.277333 505.524 573.882667 573.882667 505.524 501.149333 491.913333 491.913333 451.245333 381.2786667	228.6213333 271.984 308.9 344.5173333 344.536 310.3653333 318.6213333 318.6213333 318.6213333 318.23654667 293.654667 1520.721333 1425.712 1351.976 1237.78 1102.585333 934.522 874.8413333	380.6413333 353.592 330.981333 320.262667 230.6552 320.278.16 280.1453333 258.896 57 abs.KSC26 NA NA NA NA NA NA NA NA NA NA NA	624.445 575.4786667 407.88 457.933333 427.7546667 373.377 355.886667 792.0146667 792.0146667 792.014667 792.014663 792.014663 675.2333 678.233 675.2333 645.521333 647.413333	645.7586667 551.084 559.576 N 532.1866667 N 504.5093333 N 403.574667 371.796 59 abs.KSC28 a 534.7586667 59 abs.KSC28 a 534.7586667 499.6546667 366.228 384.124 431.8266667	757.997333 664.2626667 A A 442.5586667 369.428 346.428 346.428 317.981333 60 bs.KSC29 774.292 779.844 642.316 571.728 540.270667 496.664 428.616	500.728 475.42 479.3026667 476.652 463.005333 403.8946667 388.0306667 388.6426667 400.1106667 61 abs.KSC30 673.0986667 653.861333 505.656 449.169333 409.584	NA NA NA NA NA NA NA NA NA NA Soscieta 866.546667 870.42 825.612 780.828 713.556 697.777333	734.7613333 647.2453333 550.3386667 493.6613333 457.6866667 3184.4506667 339.4506667 339.858667 632.368 659.708 642.4493333 553.5053333 546.8093333 433.0106667	602.7986667 632.1186667 618.236 571.152 533.125333 464.38 464.38 431.729333 347.8706667 64 abs.KSC34 785.5906667 661.1026667 628.184 590.481333 576.7413333 570.7413333 571.1553333 521.1553333 523.1973333

# Appendix A: Sample Working Dataset (cont.)

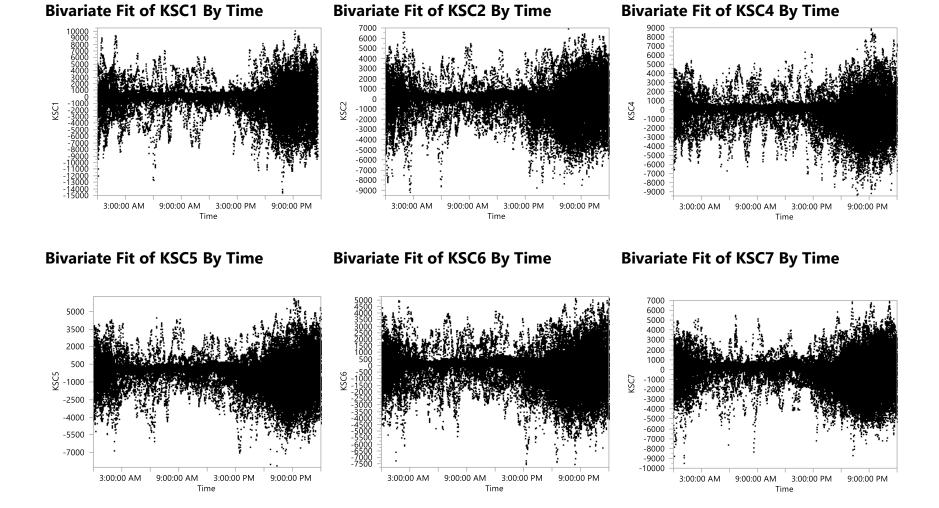
Induster         Indu SC/2         Indu SC/2         Indu SC/3         Indu SC/3 <th< th=""><th>Column #</th><th>65</th><th>66</th><th>67</th><th>68</th><th>69</th><th>70</th><th>71</th><th>72</th><th>73</th><th>74</th><th>75</th><th>76</th><th>5 77</th><th>78</th><th>79</th><th>80</th></th<>	Column #	65	66	67	68	69	70	71	72	73	74	75	76	5 77	78	79	80
1         13.85771         30.71121         19.13589         120.72557         30.47928         30.37968         60.45727         318.265355         0         962.2006.1         406.07246           2         150.05700         41.457478         11.31056         95.2006.1         100.05700         41.47420         0         284.85701         0         984.57748         424.0572           4         17.70577         27.05518         47.714208         58.57227         77.05208         37.05119         48.17448         424.8572         318.05519         43.11056         0         38.10020         38.10020         28.85020         0         38.10020 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>fold.KSC17</td></td<>							-								-	-	fold.KSC17
2         70.007100         314.80778         31.300517         21.300550         94.009841         95.102680         92.109875         44.70241         92.109805         0.98.88302         0.92.15548         0.98.15086         22.95484         0.21.95486         22.95484         0.21.95486         22.95486         0.92.15548         22.954862         0.98.88002         22.954862         0.98.88002         22.954862         0.98.89897         22.9548672         0.98.89897         22.954877         0.98.89897         20.13908         20.37907         20.379897         20.379897         20.379897         20.379897         20.379897         20.379897         20.379897         20.379897         20.379897         20.379897         20.379897         20.379897	1																
8         507.085101         712.795184         197.278598         98.460748         133.78858         199.7087         77.1777         98.78686         0.         94.86070         92.055186         94.807048         0.         94.86070         92.55687         0.         92.55688         198.50807         0.         92.55688         198.50921         0.         92.55688         198.50921         0.         92.55688         198.50921         0.         92.55688         198.50921         0.         92.55688         198.50921         0.         92.55688         198.50921         0.         198.55781         114.141241         75.55677         73.46605         114.55621         0.         92.55684         23.55684         23.55684         23.55678         12.55677         73.46605         12.55677         73.46605         12.55677         73.46605         12.55671         73.46605         12.55671         73.46605         12.55671         73.46605         12.55671         73.46605         12.55671         73.46605         12.55671         73.46605         12.55671         73.46605         12.55671         73.55677         73.46777         73.55777         73.55777         73.55777         73.55777         73.55777         73.55777         73.55777         73.55777         73.557777	2																
et         127.76977         257.640-4         137.4970.4         138.49722         77.53897         289.2128         157.2128	3																598.1674699
6         146 54977         221 71045         198 78188         79 394276         238 22754         147 711554         131 442341         77 54827         338 49002         204 06066         201 430021         0         733 519484         302 239027           7         191 407977         223 55718         232 55978         233 55777 <t< td=""><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td>546.9141365</td></t<>	4											0					546.9141365
1         1	5											0					505.0141365
1         1	6	146.9459771	237.170445	196,7431864	134.3875889	70.50942274	253.8522754	144.7718554	131,4143241	275.1458371	358,484908	299.4068606	219.4302012	2 ()	253.9194184	262.1296079	450.0048032
9         9833387         72230365         107.005137         114.395887         62.0179370         200.170310         200.170310         020.170320         017.4702872         114.895872         114.89587         114.99528         114.995277         114.995277 <t< td=""><td>7</td><td>191.4579771</td><td>216.5091117</td><td>162.6418531</td><td>127.4449223</td><td>60.55075607</td><td></td><td></td><td>121.2809908</td><td></td><td>321.4555747</td><td>273.4468606</td><td>174.5142012</td><td>2 (</td><td>218.9194184</td><td>243.6949412</td><td>396.0594699</td></t<>	7	191.4579771	216.5091117	162.6418531	127.4449223	60.55075607			121.2809908		321.4555747	273.4468606	174.5142012	2 (	218.9194184	243.6949412	396.0594699
10         105         938.69708         93.223972         103.48256         P1.424208         P1.30.06746         P3         P3 <td>8</td> <td>214.2953104</td> <td>227.5837783</td> <td>153.1538531</td> <td>119.1302556</td> <td>71.83342274</td> <td>270.1189421</td> <td>143.4571888</td> <td>106.8983241</td> <td>234.5778371</td> <td>283.2875747</td> <td>226.2761939</td> <td>201.5662012</td> <td>2 (</td> <td>206.4687518</td> <td>269.6056079</td> <td>370.5568032</td>	8	214.2953104	227.5837783	153.1538531	119.1302556	71.83342274	270.1189421	143.4571888	106.8983241	234.5778371	283.2875747	226.2761939	201.5662012	2 (	206.4687518	269.6056079	370.5568032
Column 1         81         82         84         85         86         90         91         92         93         94         95         <	9	189.5326437	222.902445	107.6045197	114.3595889	66.31075607	265.1362754	139.0718554	108.8836575	220.7631704	261.192908	203.2761939	204.1782012	2 (	186.7914184	236.9549412	347.9581365
cplume label         fold KSC19         fold KSC21         fold KSC21         fold KSC27         fold KSC27         fold KSC29         fold KSC39         fold	10	185.4873104	238.8597783	99.23251972	103.4182556	71.02808941	270.4736088	118.4905221	87.63432414	203.2778371	229.4142413	174.8295272	215.6462012	2 (	174.3274184	153.0962746	332.9248032
1         334.099-22         882.1993-17         554.17468         79.240783         556.33784         622.090222         521.473685         72.4240785         756.33784         621.07385           2         255.5271         30.071162         564.2791.48         57.27947         56.25274         30.071156         566.27974         30.071156         566.27974         30.071156         566.27974         30.071156         566.27974         30.071156         566.27974         30.071156         566.27974         30.07116         566.27974         30.07113         566.27974         30.07114         566.27974         30.0711786         60.079775         57.279756         50.57974         30.0794186         30.070128         40.6792264         42.729756         60.57771         50.57977         50.599777         50.57971         30.579718         40.0472276         40.079276         50.599977         50.579713         30.270488         49.277255         50.57971         30.579718         45.2792273         47.6726474         30.687753         40.047226         42.775956         50.57971         30.579718         45.2797231         45.2798876         40.047274         33.6797174         45.2797231         35.641186         46.2494677         33.6464754         33.64773         45.297494373         55.5461168         46.2494677	Column #	81	82	83	84	85	86	87	88	89	90	91	92	2 93	94	95	96
1         2         255.20719         807.35024         443.835483         130.248037         222.454514         499.24979         230.471156         560.822222         499.230715         704.66783         467.27388         464.4897217           4         254.72256         664.399547         332.66113         644.672256         202.991861         357.89057         407.49213         312.125948         382.20478         382.40113         644.897217         426.742056         422.15488         70.952127         71.41713         426.742026         444.897217         426.742026         444.897217         426.742026         444.897217         426.742013         422.15488         383.070113         588.97113         426.742014         410.220456         427.154821         327.449887         769.127187         59.8491818         60.2073731         347.662022         340.97719         51.61618         60.7871874         455.51586         227.1771         346.487386         340.99779         51.515187         340.99779         55.16718         60.8921717         346.487386         330.797113         51.817187         342.68729         99.89989         70.99879         59.89497         79.514818         79.599975         55.167498         340.99755         50.69783         256.74178         327.2099717         72.097975         5	Column Label	fold.KSC18 f	old.KSC19	fold.KSC20	fold.KSC21	fold.KSC22	fold.KSC24	fold.KSC25	fold.KSC26	fold.KSC27	fold.KSC28	fold.KSC29	fold.KSC30	fold.KSC31	fold.KSC32	fold.KSC34	Mean
1         20.4 00119         727.554453         67.182226         22.982534         366.055245         120.8477265         64.399347         49.3146227         47.3314522         47.48756         76.487953         51.11.2784         464.499721           5         235.66113         674.299347         454.79256         70.523852         348.444579         9999779         104.21146         0         71.481403         311.84497         49.3146227         257.524967         76.312713         464.499721           6         722.18552         54.974688         38.070113         58.877266         107.5728782         348.444579         99.9999875         0         50.578213         321.698793         77.46222         357.66322         37.66323         37.66326         37.66636         37.566688	1	334.0294523	882.1893547	554.1714463	853.9442266	290.5905194	430.4142912	1377.153179	C	573.6310803	353.2724897	625.2908222	521.4734086	742.4407853	536.333784	621.9017388	447.0932889
4         254 722756         664 203947         332,666113         646 72226         103 5280566         103 5280566         103 5280566 <td>2</td> <td>295.392119</td> <td>807.3160214</td> <td>443.8354463</td> <td>813.0428932</td> <td>261.2545194</td> <td>349.2449579</td> <td>1282.143846</td> <td>C</td> <td>655.329747</td> <td>330.6711564</td> <td>560.8428222</td> <td>499.2307419</td> <td>704.6367853</td> <td>485.785784</td> <td>497.4137388</td> <td>410.3501491</td>	2	295.392119	807.3160214	443.8354463	813.0428932	261.2545194	349.2449579	1282.143846	C	655.329747	330.6711564	560.8428222	499.2307419	704.6367853	485.785784	497.4137388	410.3501491
5         235.69(11)         578.390(214)         349.470(13)         640.672266         147.2388         348.44897         959.017780         0         514.510030         184.448271         301.2694890         382.200753         663.7021186         400.221173         131.0548279           7         222.155423         543.900214         310.900214         310.900214         310.900216 </td <td>3</td> <td>263.404119</td> <td>724.7560214</td> <td>372.5154463</td> <td>677.1842266</td> <td>230.9825194</td> <td>366.0556245</td> <td>1208.407846</td> <td>C</td> <td>614.5964136</td> <td>402.3124897</td> <td>493.3148222</td> <td>457.8454086</td> <td>745.428785</td> <td>513.125784</td> <td>464.4950721</td> <td>370.2676913</td>	3	263.404119	724.7560214	372.5154463	677.1842266	230.9825194	366.0556245	1208.407846	C	614.5964136	402.3124897	493.3148222	457.8454086	745.428785	513.125784	464.4950721	370.2676913
6         221 584/52         933 974688         338 07013         938 222265         141 721861         307 776979         700 9598455         0         508 836413         202 637821         337 66222         253 400714         618 9181186         400 227173         366 462863           8         224 228119         486 914688         328 616777         544 486892         117 2491861         223 495645         577 305178         0         503 35777         145 5511564         230 7188222         257 958749         535 864168         266 428373         357 4766427           9         224 424523         428 757547         328 57011         422 62266         99 9534471212         491 3178         0         538 43231         155 551555         200 48073         0         318 43173         357 476468           01         201 4867566         375 58688         288 8757797         93 341611         100 1018         103         104         105         105         106         107         108         103 4077         256 47138         366 65783         256 47138         377 4764024         100 7111         101         111         104         111         104         110         111         104         111         104         111         104         111         10	4	254.7227856	664.2693547	352.646113	644.6722266	200.5091861	357.6809579	1094.211846	C	577.4844136	318.1684897	422.7268222	412.5254086	708.5101186	495.8671173	426.7924054	339.198487
7         223 572119         933 8000214         310 307797         611 fr622r6         127 80196         737 81292         729 614222         227 54073         551 461186         384 6428407         338 6428407 </td <td>5</td> <td>235.656119</td> <td>578.5800214</td> <td>349.470113</td> <td>640.6722266</td> <td>167.5238528</td> <td>348.4449579</td> <td>959.0171789</td> <td>C</td> <td>541.5510803</td> <td>184.7418231</td> <td>391.2694889</td> <td>388.2360753</td> <td>663.7021186</td> <td>406.9231173</td> <td>413.0524054</td> <td>312.0767235</td>	5	235.656119	578.5800214	349.470113	640.6722266	167.5238528	348.4449579	959.0171789	C	541.5510803	184.7418231	391.2694889	388.2360753	663.7021186	406.9231173	413.0524054	312.0767235
8         224.26810         466 914686         328.616779         54.486932         117.249156         224.25825         57.3051789         0         93.35774         145.551564         237.188222         257.987419         553.66750         275.483173         335.260555           10         201.4867856         355.56668         288.876779         335.261559         97.34118611         199.282912         483.10178         0         375.402013         145.175156         1160.94222         182.0706753         336.056783         257.4784         227.250971           Column 146         97         98         99         100         101         102         103         106         106         107         108         108         110         110         111         114	6	222.1854523	543.974688	338.070113	588.2722266	141.7211861	307.7769579	790.9598455	C	508.8364136	202.6378231	347.6628222	354.0307419	618.918118	400.2271173	366.4857388	295.6798696
9         224.425423         432.777547         325.7013         432.624226         99.9981944         212.89979         503.470512         0         432.179903         195.531566         200.469073         0         316.431173         393.904064           10         201.486786         375.56688         288.876797         358.61599         97.3411861         199.289291         499.10178         0         316.333231         195.521566         100.9348222         182.076793         186.333231         195.281566         200.469073         206.056782         226.47128         272.690724	7	223.572119	503.9000214	310.3407797	611.4762266	124.4051861	237.8102912	731.2731789	C	510.7284136	250.3404897	279.6148222	297.5440753	551.6461186	346.4284507	334.6964054	273.0941061
10         201.486785         375.58668         288.876779         358.2615599         97.3411811         199.232912         489.101789         0         195         160.948222         182.0760733         396.057853         256.74178         272.09972           Column 14         97         M1         M2         M4         M5         M4         M1	8	224.268119	486.914688	328.6167797	544.4868932	117.2491861	223.4636245	577.3051789	C	503.357747	145.5511564	230.7188222	257.9587419	535.867452	295.4831173	357.4764054	255.7267083
Column H         97         98         99         100         101         102         103         106         106         107         108         109         110         111           Column Label         GeoMean         M1         LM2         LM4         M5         LM6         LM7         LM8         LM9         LM10         LM11         LM12         LM13         LM14         LM15         L           397.358334         0	9	224.4254523	428.2773547	326.570113	422.6242266	99.95851944	212.2689579	503.4705122	C	432.1750803	185.4338231	195.5281556	200.4680753	3 (	316.3431173	359.5084054	218.7731776
Column Label         GeoMean         LM1         LM2         LM4         LM5         LM6         LM7         LM8         LM9         LM10         LM11         LM12         LM13         LM14         LM15         LM           1         397 3588304         0 <td>10</td> <td>201.4867856</td> <td>375.586688</td> <td>288.8767797</td> <td>358.2615599</td> <td>97.34118611</td> <td>199.2382912</td> <td>489.1011789</td> <td>C</td> <td>379.4204136</td> <td>145.1751564</td> <td>160.9348222</td> <td>182.0760753</td> <td>396.0567853</td> <td>256.741784</td> <td>272.0590721</td> <td>208.4031384</td>	10	201.4867856	375.586688	288.8767797	358.2615599	97.34118611	199.2382912	489.1011789	C	379.4204136	145.1751564	160.9348222	182.0760753	396.0567853	256.741784	272.0590721	208.4031384
1       397.3588304       0 <td< td=""><td>Column #</td><td>97</td><td></td><td></td><td></td><td></td><td>102</td><td>103</td><td>104</td><td>105</td><td>106</td><td>107</td><td>108</td><td>3 109</td><td>110</td><td>111</td><td>112</td></td<>	Column #	97					102	103	104	105	106	107	108	3 109	110	111	112
2       369.9719779       0       0       0       0       0       -30 </td <td>Column Label</td> <td>GeoMean L</td> <td>.M1</td> <td>LM2</td> <td>LM4</td> <td>LM5</td> <td>LM6</td> <td>LM7</td> <td>LM8</td> <td>LM9</td> <td>LM10</td> <td>LM11</td> <td>LM12</td> <td>LM13</td> <td>LM14</td> <td>LM15</td> <td>LM16</td>	Column Label	GeoMean L	.M1	LM2	LM4	LM5	LM6	LM7	LM8	LM9	LM10	LM11	LM12	LM13	LM14	LM15	LM16
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1	397.3588304	0	0	0	0	0	0	C	-	-			· · · · · ·			0
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1       1	3		0	0	e	9	0	0	C			,					
6         275,5290133         0 <th< td=""><td>4</td><td></td><td>0</td><td>0</td><td>÷</td><td>-</td><td>0</td><td>0</td><td>C</td><td>-</td><td>-</td><td></td><td></td><td></td><td></td><td>-</td><td>-</td></th<>	4		0	0	÷	-	0	0	C	-	-					-	-
7       254,213552       0	5		0	0	÷	-	0	0	C		-	,					-27
8         241.046(191         0         0         0         0         0         -24         0         0         -24         -23         -24         -24         -24         -24         -24         -24	6		0	0	÷	-	0	0	C			,					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	7		0	0		-	3	ő	C								
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Column #         113         114         115         116         117         118         110         120         121         122         123         124         125         126         127           Column Label         LM17         LM18         LM19         LM20         LM21         LM20         LM24         LM25         LM26         LM27         LM28         LM29         LM30         LM31         LM32         LM32         LM2           1         0	9		9	-		-	-		0			-					
Column Label         LM18         LM19         LM20         LM21         LM24         LM25         LM26         LM27         LM28         LM29         LM30         LM31         LM32         LM30         LM31         LM31         LM30         LM31	-		9	0	-	-	ů	ő	0		-						
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		-		-	-		-					-			-		-
1       0	Column Label	LM17 L	.M18	LM19	LM20	LM21	LM22	LM24	LM25	LM26	LM27		-	LM30	LM31	LM32	LM34
3       -29       0       -29       -29       -29       0       0       -29       -29       0       -29       0       0       -29       0       0       -29       0       0       0         4       -28       0       -28       -28       -28       -28       0       0       -28       -28       0       0       -28       0       0       0       0       -28       0 <td>1</td> <td>0</td> <td></td> <td>,</td> <td></td> <td>0 0</td> <td>0</td> <td>0</td>	1	0	0	0	0	0	0	0	0	0	0		,		0 0	0	0
4         -28         0         -28         -28         -28         0         0         -28         -28         0         0         -28         0         0         -28         0         0         0         0           5         -27         0         -27         -27         0         0         -27         0 <td>2</td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td>-</td> <td>0</td> <td>0</td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td>0</td> <td>0</td>	2		0				-	0	0			-	-		-	0	0
5         -27         0         -27         -27         0         0         -27         0         0         0         0           6         -26         0         -26         -26         -26         0         0         0         -27         0         0         -27         0         0         0         0           6         -26         0         -26         -26         0         0         -26         -26         0         0         -27         0         0         -27         0         0         0         0           7         -25         0         -25         -25         0         0         0         25         -25         0         0         -27         0         0         -27         0         0         0         0         0         25         0         0         0         0         25         0 <t< td=""><td>3</td><td colspan="2"></td><td></td><td></td><td></td><td>-</td><td>ů</td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td>0</td><td>0</td></t<>	3						-	ů				-	-			0	0
6         -26         0         -26         -26         0         0         -26         -26         0         0         -26         0         0         -26         0         0         -26         0         0         0         -26         0         0         0         0         -26         0         0         0         0         -26         0         0         0         0         -26         0         0         0         0         -26         0         0         0         0         -26         0         0         0         0         -26         0         0         0         0         -26         0         0         0         0         -26         0	4		0					ő				-	-	-		0	0
7         -25         0         -25         -25         0         0         -25         -25         0         0         -25         0         0         -25         0         0         0         -25         0         0         -25         0         0         0         0         -25         0         0         0         0         -25         0         0         0         0         -25         0         0         0         0         -25         0         0         0         0         -25         0         0         0         0         -25         0         0         0         0         0         -25         0         0         0         0         -25         0	5							ő				-	-				0
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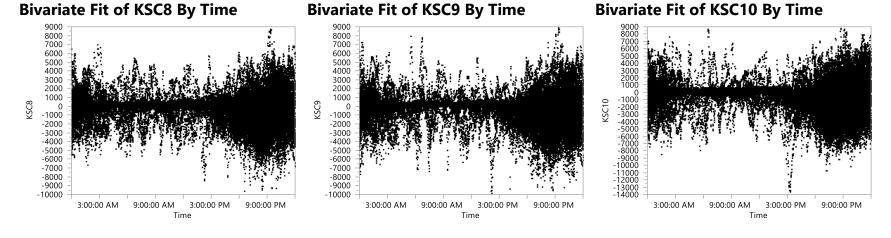
# Appendix A: Sample Working Dataset (cont.)

Column #	129	130	131	132	133	134	135	13	5 13	7 13	8 139	140	141	142	143	144
Column Label	bin.LM1	bin.LM2	bin.LM4	bin.LM5	bin.LM6	bin.LM7	bin.LM8	bin.LM9	bin.LM10	bin.LM11	bin.LM12	bin.LM13	bin.LM14	bin.LM15	bin.LM16	bin.LM17
COlumnicabel		DITI. LIVIZ	DITI.LIVI4		DITLLIVIO		DITI.LIVIO	DITLEIVIS	DIII.LIVI10			DIII.LIVI15		DITILLIVITE		DITI.LIVI17
	0	0			0	0	0	100		0	1000	1000	1000	1000	1000	1000
2	0	0			0	0	0	100		0	0 1000				1000	
3	0	0			0		0	100		0	0 1000				1000	
4	0	0	0		0	0	0	100		0	0 1000			1000	1000	
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g	0	0	C		0	0	0	100		0	0 1000				1000	
10	-	0	C	0 (	0	0	0	100		0	0 1000				1000	
Column #	145	-						15	-	-					159	
Column Label	bin.LM18	bin.LM19	bin.LM20	bin.LM21	bin.LM22	bin.LM24		bin.LM26	bin.LM27	bin.LM28	bin.LM29	bin.LM30	bin.LM31	bin.LM32	bin.LM34	Lightning1
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3	0	1000				, v		100			o c			0	0	-24
4	0	1000						100		-	0 0		-	0	0	-23
5	0	1000	1000	1000	0	0	0	100			0 0			0	0	-22
6	i 0	1000	1000	1000	0	0	0	100	100	0	0 0	1000	0 0	0	0	-21
7	0	1000	1000	1000	0	0	0	100	100	0	0 C	1000	) C	0	0	-20
8	0	1000	1000	1000	0	0	0	100	100	0	0 C	1000	) C	0	0	-19
g	1000	1000	1000	1000	1000	1000	0	100	100	0	0 1000	1000	1000	1000	1000	-18
10	1000	1000	1000	1000	1000	1000	0	100	100	0	0 1000	1000	1000	1000	1000	-17
Column #	161	162	163	164	165	166	167	16	3 16	9 17	0 171	. 172	173	174	175	176
Column Label	Lightning2	Lightning.bin	Lightning3	lightning.end.1	lightning.end.2	lightning.end.4	lightning.end.5	lightning.end.6	lightning.end.7	lightning.end.8	lightning.end.9	lightning.end.10	lightning.end.11	lightning.end.12	lightning.end.13	lightning.end.14
1	. 0	0	C	) (	0	0	0		D	0	0 0	C	) C	0	0	0
2	950	1	C	) (	0	0	0		D	0	0 40	C	) C	52	52	52
3	960	1	C	) (	0	0	0		D	0	0 39	C	) C	51	51	51
4	970	1	C	0 0	0	0	0		0	0	0 38	C	0	50	50	50
5	980	1	C	0 0	0	0	0		0	0	0 37	C	0	49	49	49
e	990	1	C	0 0	0	0	0		0	0	0 36	C	) C	48	48	48
7	1000	1	C	0 0	0	0	0		0	0	0 35	C	) C	47	47	47
8	1010	1	C	) (	0	0	0		D	0	0 34	. C	) C	46	46	46
g	1020	1	C	) (	0	0	0		D	0	0 33		) C	45	45	45
10			C	) (	0	0	0		D	0	0 32		) C	44	44	44
Column #	177	178	179	180	181	182	183	18	1 18	5 18	6 187	188	189	190	191	192
Column Label	lightning.end.15													lightning.end.29		
1	0	0	0		0	0	0	0.0		0	0 0	0		0	0	0
2	52	52	52		52	52	52		0	0	0 52	66		0	66	0
3	51				51				0	0	0 51			0	65	
4	50				50				b	0	0 50			0	64	
	49				49				0	0	0 49			0	63	-
6	48				48					0	0 48			0	62	
	48				48					0	0 47			0	61	
,	47				47					0	0 46			0	60	
	40							5	9 5		0 46			59	59	
10								5			0 45			55	59	

## Appendix A: Sample Working Dataset (cont.)

Column #	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	
Column Label			lightning.end.all				DistLM5	200 DistLM6	DistLM7	DistLM8		204 DistLM10			DistLM13	DistLM14	
Column Laber	1 0	ngnunng.enu.34	ngirunng.enu.an	41.85093529	40.22532045	40.0906007	38.78059831	38.46752501	37.25463443	38.96923615	38.29438851	36.78168244			37.63814729		
	2 0	0	66	42.90021227	41.33760344	41.07853724	39.85329467	39.48465413	38.39102629	39.91670691	39.20706578	37.84217008	37.17402796	37.51997416	38.34933516		
	3 0	0	65	40.64563207	39.16935748	38.75403358	37.63222521	37.19487354	36.26256548	37.55096449	36.80844852	35.60774857	34.87552689	35.16094945	36.06851318		
	3 0	0	64	43.31327675	41.64979576	41.58483267	40.230519	39.94807635	38.66381209	40.46151752	39.77871367	38.23950949	37.6531273	38.06120276	39.03585514		
	5 0	0	63	39.53858051	37.99520619	37.70965592	36.49765326	36.11811686	35.06020262	36.54823981	35.8419987	34.48361692		34.15122627	35.14922603		
-	6 0	0	62	40.62007595	39.13002951	38.74050284	37.60094968	37.17501864	36.21706204	37.54512622	36.80915752	35.57842573	34.85698539	35.15361141	36.07753141		
	7 0	0	61	54.20211109	53.10433032	51.94775372	51.4190917	50.63085959	50.3280146	50.50521782	49.5474531	49.37227812		48.22612747	48.5212409		
	8 0	0	60	37.02708782	35.68549377	35.03501257	34.07168325	33.5310342	32.84960404	33.77335173	32,98416344	32.03248491	31.2041859	31.39781299	32.18954729		
	9 59	59	59	40.55070063	39.00318858	38.72227429	37.50862016	37.13087323	36.06528273	37.55957191	36.85127002	35.49516044		35.16280112	36.1546192		
	10 58	58	58	42.8921223	41.2393671	41.15455906	39.81281792	39.52166206	38.25762048	40.04610864	39.38109614	37.81950459	37.22501912	37.64441047	38.73595096	37.02555493	
Column #	209	210	211	212	213	214	215		217	218	219	220	221	222	223	224	
Column Label	DistLM15	DistLM16		DistLM18		DistLM20	DistLM21	DistLM22	DistLM24	DistLM25	DistLM26	DistLM27			DistLM30	DistLM31	
	1 35.10476868	36.58540896	33.76397862	32.81464153	34.08703245	33.13845476	32.76335057	30.22884578	28.92307961	26.35743627	35.37196627	33.22530218	32.04600375	30.45235646	31.81139813	28.1210745	
	2 36.0415659	37.05908331	34.73645694	33.83881764	34.87558259	34.04943728	33.4750273	31.20377233	29.83383331	27.05223353	35.683761	33.23530194	31.52824372	30.48305102	31.67095129	27.97372113	
	3 33.66934198	34.92575088	32.40260081	31.56503542	32.53329899	31.65482089	31.17549681	28.87802376	27.44512949	24.728876	33.65066122	31.39234877	30.03885121	28.61374462	29.922651	26.21130153	
	4 36.59460699	37.88572052	35.26040811	34.29386947	35.5018713	34.62254681	34.14242571	31.72535043	30.40653384	27.69449045	36.60301942	34.32499625	32.92113844	31.54683648	32.84259203	29.128642	
	5 32.67370228	34.05996947	31.36728572	30.47365716	31.60294502	30.68423592	30.26430914	27.83467455	26.46827579	23.83739813	32.8232008	30.6386858	29.41422665	27.86272462	29.20805183	25.51038357	
	6 33.66445183	34.94388493	32.39021761	31.54182427	32.54000735	31.65426223	31.18539559	28.86370781	27.44286835	24.74114163	33.6750999	31.42855341	30.09489968	28.64996139	29.96484262	26.25499598	
	7 46.69064831	47.06487732	45.70888839	45.23280451	45.18158216	44.5877847	43.75583756	42.34806213	40.58228942	37.50450005	45.5862057	42.94337286	40.80017616	40.30134309	41.29550703	37.73516129	
	8 29.88970737	30.99328613	28.68399215	27.94182994	28.67308442	27.84621027	27.2962141	25.18312706	23.65693729	20.84471815	29.68534687	27.37396214	25.95609192	24.59699946	25.88168223	22.16686877	
	9 33.68458991	35.0594177	32.37964604	31.48627932	32.60915064	31.6935634	31.2685779	28.84715771	27.47777956	24.83882043	33.8174141	31.62076012	30.36965169	28.84387694	30.18260871	26.48145437	
	10 36.18549994	37.69389972	34.83435497	33.8676754	35.18391831	34.22662978	33.86479596	31.29945918	30.01240004	27.46588681	36.48701191	34.20882487	32.78359161	31.43117577	32.72012402	29.00541353	
Column #	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	
Column Label	DistLM32	DistLM34	varKSC1	varKSC2	varKSC4	varKSC5	varKSC6	varKSC7	varKSC8	varKSC9	varKSC10 v	/arKSC11	varKSC12	varKSC13	varKSC14	varKSC15	
	1 29.27021218	30.4090462	143.7380656	19.42748205	621.9121503	34.02089585	55.24614872	208.1087011	507.2817055	140.4408385	81.70386395	412.7833527	1655.474484	69.06103635	NA	732.016377	
	2 29.11314112																
		30.16686762	1548.399198	182.0870139	78.46455307	76.1961436	152.2098815	69.69405624	269.614949	66.21294031	280.5310552	407.55813	170.094371	199.788863	NA	970.687374	
	3 27.36363606	30.16686762 28.48082062	1548.399198 424.4783817	182.0870139 28.20225231	78.46455307 376.7198328	76.1961436 136.6808936	152.2098815 41.43631699	69.69405624 142.8986978	269.614949 9.331777259	66.21294031 52.66520662	280.5310552 160.1671597	407.55813 20.8084935	170.094371 827.7517049	199.788863 95.51889919		970.687374 389.0069739	
	4 30.28080047	28.48082062 31.39083351	424.4783817 408.1765851	28.20225231 36.5381954	376.7198328 102.2900522	136.6808936 22.63749072	41.43631699 167.9935908	142.8986978 28.34045304	9.331777259 73.39949939	52.66520662 34.08103323	160.1671597 75.15731911	20.8084935 99.65704124	827.7517049 16.23766388	95.51889919 210.2743208	NA NA		
	4 30.28080047 5 26.66093178	28.48082062 31.39083351 27.79473334	424.4783817 408.1765851 613.416417	28.20225231 36.5381954 70.90320062	376.7198328 102.2900522 295.9176454	136.6808936 22.63749072 22.84407869	41.43631699 167.9935908 7.972220073	142.8986978 28.34045304 40.1567438	9.331777259 73.39949939 267.930014	52.66520662 34.08103323 111.6471784	160.1671597 75.15731911 101.1599422	20.8084935 99.65704124 12.17130332	827.7517049 16.23766388 314.6567094	95.51889919 210.2743208 192.7922356	NA NA NA	389.0069739 259.3637595 151.4936534	
	4 30.28080047 5 26.66093178 6 27.40726906	28.48082062 31.39083351 27.79473334 28.52723153	424.4783817 408.1765851 613.416417 1157.285515	28.20225231 36.5381954 70.90320062 26.56102968	376.7198328 102.2900522 295.9176454 186.7348778	136.6808936 22.63749072 22.84407869 40.34644615	41.43631699 167.9935908 7.972220073 9.231733244	142.8986978 28.34045304 40.1567438 84.64321174	9.331777259 73.39949939 267.930014 122.5434185	52.66520662 34.08103323 111.6471784 71.35347516	160.1671597 75.15731911 101.1599422 25.93245571	20.8084935 99.65704124 12.17130332 47.25397355	827.7517049 16.23766388 314.6567094 18.58475314	95.51889919 210.2743208 192.7922356 1078.070929	NA NA NA NA	389.0069739 259.3637595 151.4936534 144.973224	
	4 30.28080047 5 26.66093178 6 27.40726906 7 38.81914705	28.48082062 31.39083351 27.79473334 28.52723153 39.75458208	424.4783817 408.1765851 613.416417 1157.285515 1262.886582	28.20225231 36.5381954 70.90320062 26.56102968 27.150339	376.7198328 102.2900522 295.9176454 186.7348778 423.0596972	136.6808936 22.63749072 22.84407869 40.34644615 19.88645104	41.43631699 167.9935908 7.972220073 9.231733244 34.22014627	142.8986978 28.34045304 40.1567438 84.64321174 44.33375392	9.331777259 73.39949939 267.930014 122.5434185 72.92550672	52.66520662 34.08103323 111.6471784 71.35347516 71.60671513	160.1671597 75.15731911 101.1599422 25.93245571 58.97332177	20.8084935 99.65704124 12.17130332 47.25397355 129.467362	827.7517049 16.23766388 314.6567094 18.58475314 96.20166544	95.51889919 210.2743208 192.7922356 1078.070929 186.7311219	NA NA NA NA NA	389.0069739 259.3637595 151.4936534 144.973224 58.74981616	
	4 30.28080047 5 26.66093178 6 27.40726906 7 38.81914705 8 23.31876324	28.48082062 31.39083351 27.79473334 28.52723153 39.75458208 24.42586073	424.4783817 408.1765851 613.416417 1157.285515 1262.886582 323.6865177	28.20225231 36.5381954 70.90320062 26.56102968 27.150339 134.359238	376.7198328 102.2900522 295.9176454 186.7348778 423.0596972 129.3584688	136.6808936 22.63749072 22.84407869 40.34644615 19.88645104 12.95404957	41.43631699 167.9935908 7.972220073 9.231733244 34.22014627 6.569379126	142.8986978 28.34045304 40.1567438 84.64321174 44.33375392 46.6202263	9.331777259 73.39949939 267.930014 122.5434185 72.92550672 27.24969479	52.66520662 34.08103323 111.6471784 71.35347516 71.60671513 50.22047349	160.1671597 75.15731911 101.1599422 25.93245571 58.97332177 15.63169946	20.8084935 99.65704124 12.17130332 47.25397355 129.467362 224.8082623	827.7517049 16.23766388 314.6567094 18.58475314 96.20166544 273.876108	95.51889919 210.2743208 192.7922356 1078.070929 186.7311219 158.7826538	NA NA NA NA NA	389.0069739 259.3637595 151.4936534 144.973224 58.74981616 46.34078026	
	27.5303000           4         30.28080047           5         26.66093178           6         27.40726906           7         38.81914705           8         23.31876324           9         27.63262829	28.48082062 31.39083351 27.79473334 28.52723153 39.75458208 24.42586073 28.7632802	424.4783817 408.1765851 613.416417 1157.285515 1262.886582 323.6865177 321.451988	28.20225231 36.5381954 70.90320062 26.56102968 27.150339 134.359238 47.32244081	376.7198328 102.2900522 295.9176454 186.7348778 423.0596972 129.3584688 215.2691679	136.6808936 22.63749072 22.84407869 40.34644615 19.88645104 12.95404957 29.64949917	41.43631699 167.9935908 7.972220073 9.231733244 34.22014627 6.569379126 45.00688852	142.8986978 28.34045304 40.1567438 84.64321174 44.33375392 46.6202263 86.82000667	9.331777259 73.39949939 267.930014 122.5434185 72.92550672 27.24969479 118.6718613	52.66520662 34.08103323 111.6471784 71.35347516 71.60671513 50.22047349 23.61875114	160.1671597 75.15731911 101.1599422 25.93245571 58.97332177 15.63169946 35.76687162	20.8084935 99.65704124 12.17130332 47.25397355 129.467362 224.8082623 95.34420629	827.7517049 16.23766388 314.6567094 18.58475314 96.20166544 273.876108 408.1875452	95.51889919 210.2743208 192.7922356 1078.070929 186.7311219 158.7826538 390.7038808	NA NA NA NA NA NA	389.0069739 259.3637595 151.4936534 144.973224 58.74981616 46.34078026 22.55940602	
	27.6303000           4         30.28080047           5         26.66093178           6         27.40726906           7         38.81914705           8         23.31876324           9         27.63262829           10         30.15734171	28.48082062 31.39083351 27.79473334 28.52723153 39.75458208 24.42586073 28.7632802 31.26409104	424.4783817 408.1765851 613.416417 1157.285515 1262.886582 323.6865177 321.451988 545.1361636	28.20225231 36.5381954 70.90320062 26.56102968 27.150339 134.359238 47.32244081 132.7250879	376.7198328 102.2900522 295.9176454 186.7348778 423.0596972 129.3584688 215.2691679 68.4921196	136.6808936 22.63749072 22.84407869 40.34644615 19.88645104 12.95404957 29.64949917 20.35594087	41.43631699 167.9935908 7.972220073 9.231733244 34.22014627 6.569379126 45.00688852 10.21336001	142.8986978 28.34045304 40.1567438 84.64321174 44.33375392 46.6202263 86.82000667 133.7409999	9.331777259 73.39949939 267.930014 122.5434185 72.92550672 27.24969479 118.6718613 471.1524624	52.66520662 34.08103323 111.6471784 71.35347516 71.60671513 50.22047349 23.61875114 187.505019	160.1671597 75.15731911 101.1599422 25.93245571 58.97332177 15.63169946 35.76687162 32.10985884	20.8084935 99.65704124 12.17130332 47.25397355 129.467362 224.8082623 95.34420629 45.60025075	827.7517049 16.23766388 314.6567094 18.58475314 96.20166544 273.876108 408.1875452 13.44413293	95.51889919 210.2743208 192.7922356 1078.070929 186.7311219 158.7826538 390.7038808 240.5746111	NA NA NA NA NA NA NA	389.0069739 259.3637595 151.4936534 144.973224 58.74981616 46.34078026 22.55940602 54.03537001	
Column #	27.350300           4         30.28080047           5         26.66093178           6         27.40726906           7         38.81914705           8         23.31876324           9         27.63262829           10         30.15734171           241	28.48082062 31.39083351 27.79473334 28.52723153 39.75458208 24.42586073 28.7632802 31.26409104 242	424.4783817 408.1765851 613.416417 1157.285515 1262.886552 323.6865177 321.451988 545.1361636 243	28.20225231 36.5381954 70.90320062 26.56102968 27.150339 134.359238 47.32244081 132.7250879 244	376.7198328 102.2900522 295.9176454 186.7348778 423.0596972 129.3584688 215.2691679 68.4921196 245	136.6808936 22.63749072 22.84407869 40.34644615 19.88645104 12.95404957 29.64949917 20.35594087 246	41.43631699 167.9935908 7.972220073 9.231733244 34.22014627 6.569379126 45.00688852 10.21336001 247	142.8986978 28.34045304 40.1567438 84.64321174 44.33375392 46.6202263 86.82000667 133.7409999 248	9.331777259 73.39949939 267.930014 122.5434185 72.92550672 27.24969479 118.6718613 471.1524624 249	52.66520662 34.08103323 111.6471784 71.35347516 71.60671513 50.22047349 23.61875114 187.505019 250	160.1671597 75.15731911 101.1599422 25.93245571 15.63169946 35.76687162 32.10985884 251	20.8084935 99.65704124 12.17130332 47.25397355 129.467362 224.8082623 95.34420629 45.60025075 252	827.7517049 16.23766388 314.6567094 18.58475314 96.20166544 273.876108 408.1875452 13.44413293 253	95.51889919 210.2743208 192.7922356 1078.070929 186.7311219 158.7826538 390.7038808 240.5746111 254	NA NA NA NA NA NA NA NA 255	389.0069739 259.3637595 151.4936534 144.973224 58.74981616 46.34078026 22.55940602 54.03537001 256	-
	1         21/35/302           4         30.28080047           5         26.66093178           6         27.40726906           7         38.81914705           8         23.31876324           9         27.63262829           10         30.15734171           241         varKSC16	28.48082062 31.39083351 27.79473334 28.52723153 39.75458208 24.42586073 28.7632802 31.26409104 242 varKSC17	424.4783817 408.1765851 613.416417 1157.285515 1262.886582 323.6865177 321.451988 545.1361636 243 varKSC18	28.20225231 36.5381954 70.90320062 26.56102968 27.150339 134.359238 47.32244081 132.7250879 244 varKSC19	376.7198328 102.2900522 295.9176454 186.7348778 423.059607 129.3584688 215.2691679 68.4921196 245 varKSC20	136.6808936 22.63749072 22.84407869 40.34644615 19.88645104 12.95404957 29.64949917 20.35594087 246 varKSC21	41.43631699 167.9935908 7.972220073 9.231733244 34.22014627 6.569379126 45.0068852 10.21336001 247 varKSC22	142.8986978 28.34045304 40.1567438 84.64321174 44.33375392 46.6202263 86.82000667 133.7409999 248 varKSC24	9.331777259 73.39949939 267.930014 122.5434185 72.9255067 27.24969479 118.6718613 471.1524624 249 varKSC25	52.66520662 34.08103323 111.6471784 71.35347516 71.60671513 50.22047349 23.61875114 187.505019 250 varKSC26	160.1671597 75.15731911 101.1599422 25.93245571 58.97332177 15.63169946 35.76687162 32.10985884 251 varKSC27 v	20.8084935 99.65704124 12.17130332 47.25397355 129.467362 224.8082623 95.34420629 45.60025075 252 varKSC28	827.7517049 16.23766388 314.6567094 18.58475314 96.20166544 273.876108 408.1875452 13.44413293 253 varKSC29	95.51889919 210.2743208 192.7922356 1078.070929 186.7311219 158.7826538 390.7038808 240.5746111 254 varKSC30	NA NA NA NA NA NA NA 255 varKSC31	389.0069739 259.3637595 151.4936534 144.973224 58.74981616 46.34078026 22.55940602 54.03537001 256 varKSC32	varKSC34
Column #	1         27.6350380047           5         26.66093178           6         27.40726906           7         38.81914705           8         23.31876324           9         27.63262829           10         30.15734171           varKSC16         1           408.5116354	28.48082062 31.39083351 27.79473334 28.52723153 39.75458208 24.42586073 28.7632802 31.26409104 242 varKSC17 298.134941	424.4783817 408.1765851 613.416417 1157.285515 1262.886582 323.6865177 321.451988 545.1361636 243 varKSC18 643.5962636	28.20225231 36.5381954 70.90320062 26.56102968 27.150399 134.359238 47.32244081 132.7250879 244 varKSC19 766.8695948	376.7198328 102.2900522 295.9176454 186.7348778 423.0596972 129.3584688 215.2691679 68.4921196 245 varKSC20 1931.711123	136.6808936 22.63749072 22.84407869 19.88645104 12.95404957 29.64949917 20.35594047 20.35594047 246 varKSC21 268.8415694	41.43631699 167.9935908 7.972220073 9.231733244 34.22014627 6.569379126 45.00688852 10.21336001 247 varKSC22 7.966787151	142.8986978 28.34045304 40.1567438 84.64321174 44.33375392 46.6202263 86.82000667 133.740999 248 varKSC24 96.61577148	9.331777259 73.39949939 267.930014 122.5434185 72.92550672 27.24969479 118.6718613 471.1524624 249 varKSC25 733.532189	52.66520662 34.08103323 111.6471784 71.35347516 71.60671513 50.22047349 23.61875114 187.50519 90 250 varKSC26 702.5693929	160.1671597 75.15731911 101.1599422 25.93245571 58.97332177 15.63169946 35.76687162 32.10985884 251 varKSC27 v 2172.667033	20.8084935 99.65704124 12.17130332 47.25397355 129.467362 224.8082623 95.34420629 45.60025075 252 264.8025075 252 267.858478584	827.7517049 16.23766388 314.6567094 18.58475314 96.20166544 273.876108 408.1875452 13.44413293 2253 varKSC29 257.7819967	95.51889919 210.2743208 192.7922356 1078.070929 186.7311219 158.7826538 390.7038808 240.5746111 254 varKSC30 5.749514727	NA NA NA NA NA NA 255 varKSC31 44.25978615	389.0069739 259.3637595 151.4936534 144.973224 58.74981616 46.34078026 22.55940602 54.03537001 2256 varKSC32 88.35306169	varKSC34 486.554631
Column #	1         20.28080047           5         26.66093178           6         27.40726906           7         38.81914705           8         23.31876324           9         27.63262829           10         30.15734171           241         241           1         408.5116354           2         234.3627058	28.48082062 31.39083351 27.79473334 28.52773153 39.75458208 24.42586073 28.7632802 31.26409104 242 varKSC17 298.134941 208.6332778	424.4783817 408.1765851 613.416417 1157.285515 1262.886582 323.6865177 321.451988 545.1361636 243 varKSC18 643.5962636 139.930014	28.20225231 36.5381954 70.90320062 26.56102968 27.150339 134.359238 47.32244081 132.7250879 244 varKSC19 766.8695948 344.5865849	376.7198328 102.2900522 295.9176454 186.7348778 423.0596972 129.3584688 215.2691679 68.4921196 245 varKSC20 1931.711123 798.5023257	136.6808936 22.63749072 22.84407869 40.3464415 19.88645104 12.95404957 29.64949917 20.35594087 246 varKSC21 268.8415694 400.2364504	41.43631699 167.9935908 7.972220073 9.23173244 34.22014627 6.569379126 45.00688852 10.21336001 247 varKSC22 7.966787151 196.9028325	142.8986978 28.34045304 40.1567438 84.64321174 44.33375392 46.6202263 86.82000667 133.7409999 248 varKSC24 96.61577148 942.1785484	9.331777259 73.39949939 267.930014 122.5434185 72.92550672 27.24969479 118.6718613 471.1524624 249 varKSC25 733.532189 139.5369016	52.66520662 34.08103323 111.6471784 71.35347516 50.22047349 23.61875114 187.505019 250 varKSC26 702.5693929 169.6186942	160.1671597 75.15731911 101.1599422 25.93245571 58.97332177 15.63169946 35.76687162 32.10985884 251 varKSC27 v 2172.66703 40.70135201	20.8084935 99.65704124 12.17130332 47.25397355 129.467362 224.8082623 95.34420629 45.60025075 252 varKSC28 2858.478584 716.1713033	827.7517049 16.23766388 314.6567094 18.58475314 96.20166544 273.876108 408.1875452 13.44413293 253 varKSC29 257.7819967 376.1223715	95.51889919 210.2743208 192.7922356 186.7311219 158.7826538 390.7038808 240.5746111 254 varKSC30 5.749514727 227.3323748	NA NA NA NA NA NA NA 2555 varKSC31 44.25978615 123.6677115	389.0069739 259.3637595 151.4936534 144.973224 58.74981616 46.34078026 22.55940602 54.03537001 256 VarKSC32 88.35306169 255.4804028	varKSC34 486.554631 1292.86308
Column #	1         21/35/35/20           4         30.28080047           5         26.66093178           6         27.40726906           7         38.81914705           8         23.31876324           9         27.63262829           10         30.15734171           241         varKSC16           1         408.5116354           2         234.3627058           3         10.4.9606242	28.48082062 31.39083351 47.79473334 39.75458208 24.42586073 28.7632802 31.26409104 242 varKSC17 298.134941 208.6332778 162.6743688	424.4783817 408.1765851 613.416417 1157.285515 1262.886582 323.6865177 321.451988 243 varKSC18 643.5962636 139.930014 109.9594105	28.20225231 36.5381954 70.90320062 25.56102968 27.150339 134.359238 47.32244081 132.7250879 244 varKSC19 766.8695948 344.5865849 734.2614365	376.7198328 102.2900522 295.9176545 186.7348778 423.0596972 129.3584688 215.2691679 68.4921196 245 varKSC20 1931.711123 798.5023257 440.4030126	136.6808936 22.63749072 22.84407869 40.34644615 19.88645104 12.95404957 29.64949917 20.35594087 246 varKSC21 268.8415694 400.2364504 1588.564677	41.43631699 167.9935908 7.97220073 9.231733244 34.22014627 6.569379126 45.00688852 10.21336001 247 varKSC22 7.966787151 196.9028325 134.1800156	142.8986978 28.34045304 40.1567438 86.64321174 44.33375392 46.6202263 86.82000667 133.7409999 248 varKSC24 96.61577148 942.1785484 55.0451057	9.331777259 73.39949393 467.930014 122.5434185 72.92550672 27.24969479 118.6718613 471.1524624 249 varKSC25 733.532189 139.5369016 1692.01943	52.66520662 34.08103323 111.6471784 71.35347516 71.60671513 50.22047349 23.61875114 187.505019 250 varKSC26 702.5693929 159.6186942 321.3772752	160.1671597 75.15731911 20.15731911 20.15731911 20.15731911 20.253245571 58.97332177 15.63169946 35.76687162 32.10985884 251 251 251 251 251 251 251 251 251 251	20.8084935 99.65704124 12.17130332 129.467362 224.8082623 95.34420629 45.60025075 252 2858.478584 716.1713033 864.2635527	827.7517049 16.23765388 314.6567094 18.58475314 96.20166544 273.876108 408.1875452 13.44413293 253 varKSC29 257.7819967 376.1223715 427.8294205	95.51889919 210.2743208 1927.922366 1078.070929 186.7311219 158.7826538 390.703808 240.5746111 254 varKSC30 5.749514727 227.3323748 103.850423	NA NA NA NA NA NA NA VarKSC31 44.25978615 123.6677115 730.1313487	389.0069739 259.3637553 151.4936534 144.973224 58.74981616 46.34078026 22.55940602 54.03537001 256 varKSC32 88.35306169 255.4804028 244.1294458	varKSC34 486.554631 1292.86308 435.578003
Column #	1         10.5020004           30.28080047         2           5         26.66093178           6         27.40725906           7         38.81914705           8         23.31876324           9         27.6326329           10         30.15734171           241         241           1         408.5116354           2         234.3627058           3         104.9606242           4         88.0229054	28.48082062 31.39083351 27.7947334 28.52723153 39.75458208 24.42586073 21.26409104 242 varKSC17 298.134941 208.6332778 162.6743688 108.5547111	424.4783817 408.1765851 613.416451 1157.285515 1262.886582 323.6865177 321.451988 545.1361636 243 varKSC18 643.5962636 139.93014 109.5954105 32.43531666	28.20225231 36.5381954 70.90320062 26.56102968 27.150339 134.359238 47.32244081 132.7250879 244 varKSC19 766.8695948 344.5865849 344.5865849 221.6689512	376.7198328 102.2900522 295.9176454 186.7348778 423.0596972 129.3584688 215.2691679 68.4921196 245 varKSC20 1931.711123 798.502327 440.4030126 4.909865955	136.6808936 22.63749072 22.84407869 40.34644615 19.88645104 12.954049517 20.35594087 246 varKSC21 268.8415694 400.2364504 1588.56677 1192.122172	41.43631699 167.9935908 7.97220073 9.231733244 34.22014627 6.569379126 45.0068852 10.21336001 247 varKSC22 7.966787151 196.9028325 134.1800156 15.14420362	142.8986978 28.34045304 40.1567438 86.64321174 44.33375392 46.6202263 86.82000667 133.7409999 248 varKSC24 96.61577148 942.1785444 55.0451057 65.6342443	9.331777259 73.39949393 267.930014 122.5434185 72.92550672 27.24969479 118.6718613 471.1524624 249 varKSC25 733.532189 139.5369016 1692.01943 1455.604802	52.66520662 34.08103232 1111.6471784 71.85347516 71.06671513 50.22047349 23.61875114 187.505019 250 var(SC26 702.5693929 169.6186942 321.3772752 666.4561519	160.1671597 75.15731911 101.1599422 25.93245571 58.97332177 15.63169946 35.76687162 32.10985884 2511 varKSC27 v 2172.667033 40.70135201 133.577411 31.76992286	20.8084935 99.65704124 12.17130332 47.25397355 129.467362 224.8082623 95.34420629 45.60025075 252 2858.478584 716.1713033 864.2635527 3178.726987	827.7517049 16.23765388 314.6567094 18.5475314 96.20166544 273.876108 408.1875452 13.44413293 253 varKSC29 257.7819967 376.1223715 427.8294205 576.5875452	95.51889919 210.2743208 192.7922366 1078.070929 186.7311219 158.7826538 390.7038808 240.5746111 254 varKSC30 5.749514727 227.3323748 103.850423 178.9756248	NA NA NA NA NA NA NA 255 varKSC31 44.25978615 123.6677115 730.1313487 1031.730177	389.0069739 259.3637595 151.4936534 144.973224 58.74981616 46.34078026 54.03537001 255 88.35306169 255.4804028 244.1294458 244.1294458	varKSC34 486.554631 1292.86308 435.578003 215.488147
Column #	1         21,0505000           4         30,28080047           5         26,66093178           6         27,40726906           7         38,81914705           8         23,31876324           9         27,63262829           10         30,15734171           241         varKSC16           2         234,3627058           3         104,9605242           4         898,0229036           5         417,9662803	28.48082062 33.39083351 27.79473334 28.52723153 39.75458208 24.4258073 24.4258073 31.26409104 242 varKSC17 298.134941 208.6332778 162.6743688 108.5547111 231.6676154	424.4783817 408.1765851 613.416417 1157.285515 1262.886582 323.6865177 321.451988 545.136136 643.5962636 139.930014 109.9594105 32.43531666 33.05504768	28.20225231 36.5381954 70.9032062 25.56102968 27.150339 134.359238 47.322244081 132.7250879 244 varKSC19 766.8695948 344.5865849 734.261365 221.6689512 368.8395759	376,7198328 102,290522 235,9176454 186,7348778 423,0596972 129,3584688 215,2691679 68,4921196 245 varKSC20 1931,711123 798,5023257 440,4030126 4,909865955 14,03410203	136.6808936 22.63749072 22.84407869 40.34644615 19.88645104 12.95404957 26.64949917 20.35594087 246 varKSC21 268.8415694 400.2364504 1588.564677 1192.122172 215.6366771	41.43631699 167.9935908 7.972220073 9.231733244 34.22014627 6.569379126 45.00688852 10.21336001 247 varKSC22 7.966787151 196.9028325 134.1800156 15.14420362 231.8736005	142.8986978 28.34045304 48.04521174 44.33375392 46.6202263 88.82000667 133.7409999 248 varKSC24 96.61577148 942.1785484 55.0451057 65.6342443 82.52132933	9.331777259 73.39949939 267.930014 122.5434185 72.92550672 27.24969479 118.6718613 471.1524624 249 varKSC25 733.532189 139.5369016 1692.01943 1455.604802 2055.128094	52.66520662 34.08103323 1111.6471784 71.53547516 71.60671513 50.22047399 23.61875114 187.505019 250 varKSC26 702.5693929 169.6186942 321.3772752 696.4561513 368.4466163	160.1671597 75.15731911 101.1599422 25.93245571 35.3169946 35.76687162 32.1098584 251 varKSC27 v 2172.66703 40.70135201 1335.77411 31.78992286 574.5784868	20.8084935 99.65704124 12.17130332 129.467362 224.8082623 95.34420629 45.60025075 252 rarKSC28 2858.478584 716.1713033 864.2635527 3178.726987 494.1820767	827.7517049 16.23765388 314.6567094 18.58475314 96.20166544 273.876108 408.1875452 13.44413293 253.7819967 376.1223715 427.8294205 576.5875452 53.51791219	95.51889919 210.2743208 192.7922366 1078.070929 186.7311219 158.7826538 390.7038808 240.5746111 254 varKSC30 5.749514727 227.3323748 103.850423 178.9756248 9.808040903	NA NA NA NA NA NA NA 255 varKSC31 44.25978615 123.6677115 730.1313487 1031.730177 70.45427409	389.0069739 259.3637595 151.4936534 144.973224 58.74981616 46.34078026 22.55940602 54.03537001 256 88.35306169 255.4804028 244.1294458 545.5032673 782.9069405	varKSC34 486.554631 1292.86308 435.578003 215.488147 359.943739
Column #	1         10.5000047           30.28080047         26.66093178           6         27.40725906           7         38.81914705           8         23.31876324           9         27.63262829           10         30.15734171           241         20.51262829           1         408.5116354           2         234.3627058           3         10.4.9606242           4         898.0229036           5         417.9662803           6         622.7610377	28.48082062 31.39083351 27.79473334 28.52723153 39.75458206 31.26409104 24.4258607 328.7632802 31.26409104 242 varKSC17 298.134941 208.6332778 162.6743688 108.5547111 21.6676154 248.9205184	424,4783817 408.1765851 613.416417 1157.285515 1262.886582 232.8665177 321.451988 545.1361636 243.5962636 139.930014 109.9594105 32.43531666 35.09504768 132.4846078	28.20225231 36.5381954 70.90320062 26.56102968 27.15039 134.359238 47.32244081 132.7250879 244 varKSC19 766.8695948 344.5865849 734.2614365 221.6689812 236.88395759 183.922463	376,7198328 102,290522 235,9176454 186,7348778 423,0596972 129,3584688 215,2691679 68,4921196 245 varKSC20 1931,711123 798,503257 440,4030126 4,909865955 14,03410203 195,5940887	136.6808936 22.63749072 22.84407869 40.3464407869 40.34644615 19.88645104 12.95404957 29.64949917 20.35594087 246.94949917 20.35594087 246.8415694 400.2364504 1588.566477 1192.122172 215.6366771 403.6470806	41.43631699 167.9935908 7.972220073 9.231733244 34.22016627 15.569379126 45.0068852 10.21336001 247 varKSC22 7.966787151 134.1800156 15.14420362 231.8736005 12.8836261	142.8986978 28.34045304 40.1557438 84.64321174 44.33375392 46.6202263 86.82000667 133.740999 248 varKSC24 96.61577148 942.178544 54.0451057 65.6342443 82.55123933 26.48200849	9.331777259 73.39949393 267.930014 122.5434185 72.92550672 27.24969479 118.6718613 471.1524624 249 varKSC25 733.532189 139.5369016 1692.01943 1455.604802 2052.128094 857.6711064	52.66520662 34.08103323 111.6471784 71.35347516 71.06071513 50.22047349 23.61875114 187.505019 250 varKSC26 702.569329 702.569329 250 varKSC26 321.3772752 666.4561519 386.8466163 277.5528048	160.1671597 75.15731911 101.1599422 25.93245571 56.3169946 35.76687162 32.10985884 251 varKSC27 v 2172.667033 40.70135201 1335.77411 31.78992286 574.5784968 31.69611026	20.8084935 99.65704124 12.17130332 47.25397355 129.467362 224.8082623 95.34420629 45.60025075 252 24858.478584 716.1713033 864.263527 3178.726987 494.1820767 1461.927933	827,7517049 16.23765383 314.6567684 18.58475314 95.0166544 408.1875452 13.44413293 varKSC29 257,7819967 257,7819967 257,7819967 257,6875452 576.5875452 53.51791229 243.9924348	95.51889919 210.2743208 192.7922356 1078.070929 186.7311219 158.7826538 390.7038808 240.5746111 254 varKSC30 5.749514727 227.3323748 103.850423 178.9756248 9.808040903 409.5755225	NA NA NA NA NA NA NA NA 255 varKSC31 44.25978615 123.6677115 730.1313487 1031.730177 70.45427409 374.1431304	389.0069739 259.3637595 151.4936534 144.973224 58.74981616 46.34078026 22.55540602 24.03537001 255.4804028 244.1294458 255.5032673 782.9069405 240.9613	varKSC34 486.554631 1292.86308 435.578003 215.488147 359.943739 51.7200649
Column #	11050000000000000000000000000000000000	28.48082062 31.39083351 27.7947334 28.52723153 39.75458208 24.42586073 21.6409104 242 varKSC17 298.134941 208.6332778 162.6743688 108.5547111 231.6676154 248.9205154 248.9205154	424.4783817 408.1765851 613.416417 1157.285515 1262.886582 323.6865177 321.451988 545.1361636 243 324.5962636 139.93014 109.9594105 32.43531666 33.09504768 132.4946078 35.06361854	28.20225231 36.5381954 70.90320062 26.56102968 27.150339 134.359238 47.32244081 132.7250879 244 varKSC19 766.8695948 344.5865849 734.2614365 221.6689812 368.8395759 183.922463 104.2557012	376.7198328 102.290522 295.9176454 186.7348778 423.0596972 129.3584688 215.2691679 68.4921196 245 798.502327 440.4030126 4.909865955 14.0341023 159.5940887 17.14687118	136.6808936 22.63749072 22.84407869 40.34644615 19.88645104 12.954049517 20.35594087 246 varKSC21 268.8415694 400.2364504 1588.564677 1192.122172 215.6366771 403.6470806 33.81657708	41.43631699 167.9935908 7.972220073 9.231733244 34.22014627 6.569379126 45.00688852 10.21336001 247 7.966787151 196.9028325 134.1800156 15.14420362 231.8736005 12.8836261 38.56081983	142.8986978 28.34045304 40.1567438 86.64321174 44.33375392 46.6202263 86.82000667 133.7409999 248 varKSC24 96.61577148 942.178544 55.0451057 65.6342443 82.52132933 264.8200849 555.2380909	9.331777259 73.39949393 267.930014 122.5434185 72.92550672 27.24969479 118.6718613 471.1524624 249 varKSC25 733.532189 139.5369016 1692.01943 1455.604802 2052.128004 857.6711064 3378.018164	52.66520662 34.08103232 1111.6471784 71.85347516 71.85347516 71.80671513 50.22047349 23.61875114 187.505019 250 varKSC26 702.5693929 169.6186942 321.3772752 696.4561519 386.8466163 277.5328048 2112.546552	160.1671597 75.15731911 101.1599422 25.93245571 35.93245571 35.76687162 32.10985884 42511 32.10985884 40.70135201 1335.77411 31.78992286 574.574968 31.69611026 60.2092253	20.8084935 99.65704124 12.17130332 47.25397355 129.467362 224.8082623 45.60025075 252 2858.478584 716.1713033 864.2635527 3178.726987 494.1820767 1461.927933 2958.374747	827.7517049 16.23765384 314.6567684 18.58475314 92.20165544 273.876108 408.1875452 13.44413293 varKSC29 257.7819967 376.1223715 427.8294205 576.5875452 536.5875452 536.5875452 330.4186836	95.51889919 210.2743208 192.7922366 1078.070929 186.7311219 158.7826538 390.7038808 240.5746111 254 varKSC30 5.749514727 227.3323748 103.850423 178.9756248 9.808040903 409.5755225 108.2420736	NA NA NA NA NA NA NA 255 varKSC31 44.25978615 123.6677115 730.1313487 1031.730177 70.45427409 374.1431304 177.9635185	389.0069739 259.3637595 151.4936534 144.973224 58.74981616 46.34078026 22.55940602 54.03537001 256 varKSC32 88.35306169 255.4804028 244.1294458 555.5032673 782.9069405 240.9613 39.36500789	varKSC34 486.554631 1292.86308 435.578003 215.488147 359.943739 51.7200649 120.617057
Column #	1         21,050,000           4         30,28080047           5         26,66093178           6         27,40726906           7         38,81914705           8         23,31876324           9         27,63262829           10         30,15734171           2         234,3627058           3         104,9605242           4         898,0229036           5         417,9662803           6         62,7610377           7         432,030403           8         248,2956966	28.48082062 31.39083551 27.79473334 28.52723153 39.75458208 31.26409104 242 varKSC17 298.134941 208.6332778 162.6743688 108.5547111 231.6676154 248.9205184 108.654574111	424.4783817 408.1765851 613.416417 1157.285515 1262.886582 232.6865177 321.451988 545.1361636 243 varKSC18 643.5962636 139.930014 109.9594105 32.43531666 33.09504768 132.485607478 35.06361854	28.20225231 36.5381954 70.90320062 26.56102968 27.15039 134.359238 47.32244081 132.7250879 244 varKSC19 766.8695948 344.5865849 734.261365 221.6689812 368.3895759 183.922463 104.2557012 14.10385684	376,7198328 102,290522 235,9176454 186,7348778 423,0596972 129,3584688 215,2691679 68,4921196 245 VarKSC20 1931,711123 778,5023257 440,4030126 4,909863955 14,03410203 159,5940887 17,14687118 48,99925598	136.6808936 22.63746072 22.84407869 40.34644615 19.88645104 12.95640957 29.64949917 20.35540857 246 varKSC21 288.8415694 400.2364504 1588.566777 1192.122172 215.6366771 403.6470806 33.81657708 2403.876592	41.43631699 167.9935908 7.972220073 9.231733244 34.22014627 45.0068852 10.21336001 247 varKSC22 7.966787151 196.9028325 134.1800155 15.14420362 231.8736005 12.8836261 38.56081983 38.56081983	142,8986978 28,34045304 40,1567438 84,64321174 44,33375392 46,6202263 86,82000667 133,740999 248 varKSC24 96,61577148 942,1785484 55,0451057 45,6342443 82,52132933 264,8200849 965,52380909 66,34282361	9.331777259 73.39949939 267.930014 122.5434185 72.92550672 72.7.24969479 118.6718613 471.1524624 249 varKSC25 733.532189 139.5369016 1692.01943 145.5604802 2052.128094 857.6711064 3378.018164 1145.99262	52.66520662 34.08103323 111.6471784 71.35347516 71.06071513 50.22047349 23.61875114 187.505019 250 varKSC26 702.5693929 169.6186942 321.3772752 696.456151 336.8466163 277.5328048 2112.546552 371.6341662	160.1671597 75.15731911 101.1599422 25.93245571 56.3169942 35.76687.162 25.1093584 25.1 varKSC27 varKS	20.8084935 99.65704124 12.17130332 47.25397355 129.467362 224.8082623 95.34420629 45.60025075 252 carKSC28 2858.478584 716.1713033 864.2635527 3178.726987 494.1820767 1461.927933 2958.374747 42.159326	827,7517049 16.23765388 314.6567084 18.58475314 96.20166544 408.1875452 13.44413293 253 varKSC29 257,7819967 376.1223715 427.8294025 576.5875452 53.51791219 243.9924348 136.7138379	95.51889919 210.2743208 192.7922356 1078.070929 186.7311219 158.7826538 390.7038808 240.5746111 254 varKSC30 5.749514727 227.3323748 103.850423 178.9756248 9.808040903 409.5755225 108.2420736 185.0726349	NA NA NA NA NA NA NA 255 varKSC31 44.25978615 123.6677115 730.1313487 1031.730177 70.45427409 374.1431304 177.9635185 78.50458775	389.0069739 259.3637595 151.4936534 144.973224 58.74881616 46.34078026 22.55940602 54.03537001 225 88.35306169 225.4804028 244.1294458 555.5032673 782.9069405 782.9069405 249.905495 199.4115354	varKSC34 486.554631 1292.86308 435.578003 215.488147( 359.943739) 51.7200649 120.617057 114.349444
Column # Column Label	11050000000000000000000000000000000000	28.48082062 31.39083351 27.7947334 28.52723153 39.75458208 24.42586073 21.6409104 242 varKSC17 298.134941 208.6332778 162.6743688 108.5547111 231.6676154 248.9205154 248.9205154	424.4783817 408.1765851 613.416417 1157.285515 1262.886582 323.6865177 321.451988 545.1361636 243 324.5962636 139.93014 109.9594105 32.43531666 33.09504768 132.4946078 35.06361854	28.20225231 36.5381954 70.90320062 26.56102968 27.150339 134.359238 47.32244081 132.7250879 244 varKSC19 766.8695948 344.5865849 734.2614365 221.6689812 368.8395759 183.922463 104.2557012	376.7198328 102.290522 295.9176454 186.7348778 423.0596972 129.3584688 215.2691679 68.4921196 245 798.502327 440.4030126 4.909865955 14.0341023 159.5940887 17.14687118	136.6808936 22.63749072 22.84407869 40.34644615 19.88645104 12.954049517 20.35594087 246 varKSC21 268.8415694 400.2364504 1588.564677 1192.122172 215.6366771 403.6470806 33.81657708	41.43631699 167.9935908 7.972220073 9.231733244 34.22014627 6.569379126 45.00688852 10.21336001 247 7.966787151 196.9028325 134.1800156 15.14420362 231.8736005 12.8836261 38.56081983	142.8986978 28.34045304 40.1567438 86.64321174 44.33375392 46.6202263 86.82000667 133.7409999 248 varKSC24 96.61577148 942.178544 55.0451057 65.6342443 82.52132933 264.8200849 555.2380909	9.331777259 73.39949393 267.930014 122.5434185 72.92550672 27.24969479 118.6718613 471.1524624 249 varKSC25 733.532189 139.5369016 1692.01943 1455.604802 2052.128004 857.6711064 3378.018164	52.66520662 34.08103232 1111.6471784 71.85347516 71.85347516 71.80671513 50.22047349 23.61875114 187.505019 250 varKSC26 702.5693929 169.6186942 321.3772752 696.4561519 386.8466163 277.5328048 2112.546552	160.1671597 75.15731911 101.1599422 25.93245571 35.93245571 35.76687162 32.10985884 42511 32.10985884 40.70135201 1335.77411 31.78992286 574.574968 31.69611026 60.2092253	20.8084935 99.65704124 12.17130332 47.25397355 129.467362 224.8082623 45.60025075 252 2858.478584 716.1713033 864.2635527 3178.726987 494.1820767 1461.927933 2958.374747	827.7517049 16.23765384 314.6567684 18.58475314 92.20165544 273.876108 408.1875452 13.44413293 varKSC29 257.7819967 376.1223715 427.8294205 576.5875452 536.5875452 536.5875452 330.4186836	95.51889919 210.2743208 192.7922366 1078.070929 186.7311219 158.7826538 390.7038808 240.5746111 254 varKSC30 5.749514727 227.3323748 103.850423 178.9756248 9.808040903 409.5755225 108.2420736	NA NA NA NA NA NA NA 255 varKSC31 44.25978615 123.6677115 730.1313487 1031.730177 70.45427409 374.1431304 177.9635185	389.0069739 259.3637595 151.4936534 144.973224 58.74981616 46.34078026 22.55940602 24.03537001 255.4804028 244.1294458 255.5032673 782.9069405 240.9613 33.36500789 1199.4115354	257 varKSC34 486.55546311 1292.863081 435.578003 215.488147 359.9437395 51.7200491 120.6170572 114.349448 245.97638 983.5123334





#### **Bivariate Fit of KSC11 By Time**

3000 2000 1000

0 -1000 -2000 -3000 -4000 -5000 -6000 -7000 -8000 -9000

-10000

-11000

3:00:00 AM

9:00:00 AM

3:00:00 PM

Time

KSC11

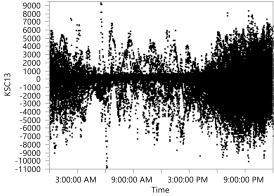
#### Bivariate Fit of KSC12 By Time

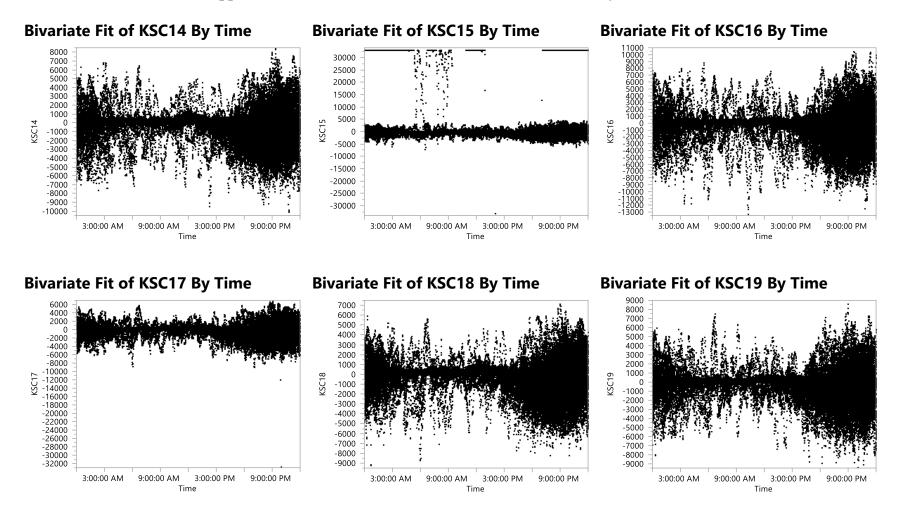
KSC12

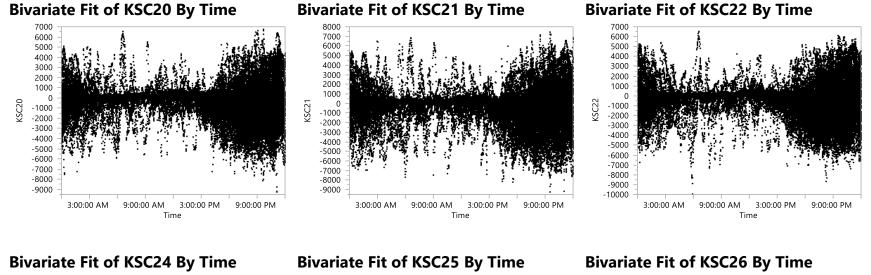
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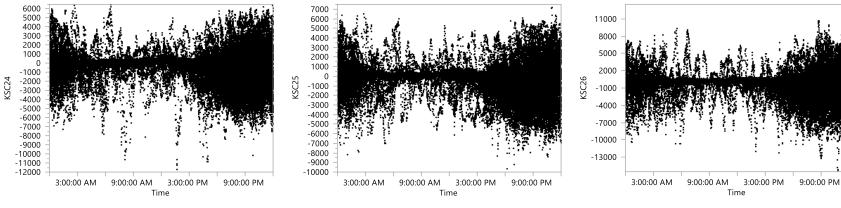
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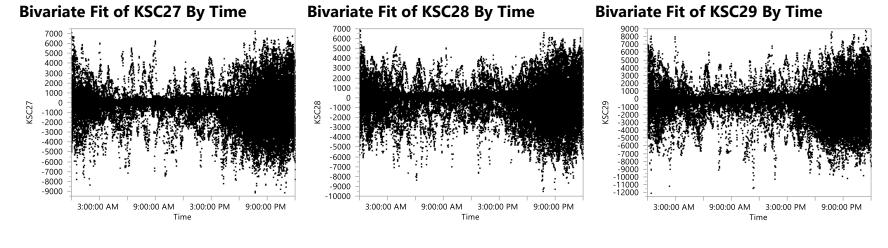
#### **Bivariate Fit of KSC13 By Time**











#### **Bivariate Fit of KSC30 By Time**

3:00:00 AM 9:00:00 AM

-1000 -2000 -3000 -4000 -5000 -6000 -7000 -8000 -9000 -10000 -11000 -12000 -13000

KSC30

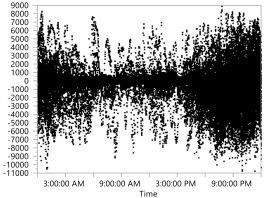
# Bivariate Fit of KSC31 By Time

KSC31

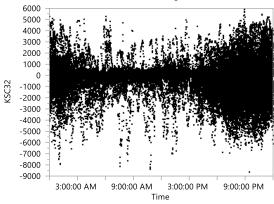
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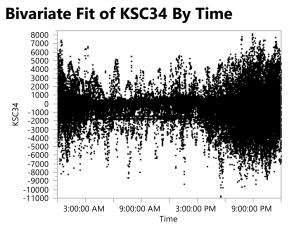
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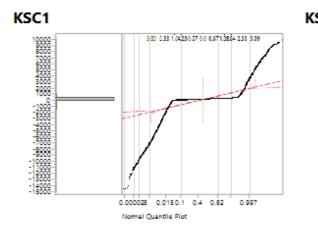
Time

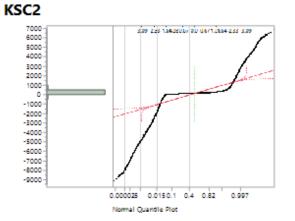


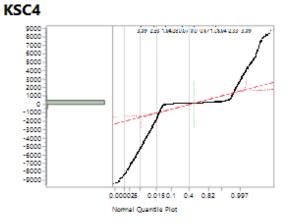
#### **Bivariate Fit of KSC32 By Time**











#### Quantiles

100.0%	maximum	9940.0173333
99.5%		2688.9498667
97.5%		513.928
90.0%		321.90266667
75.0%	quartile	253.11466667
50.0%	median	201.93866667
25.0%	quartile	151.93333333
10.0%		102.216
2.5%		-812.8453333
0.5%		-4293.0664
0.0%	minimum	-14503.552

#### Summary Statistics

Mean	159.59655
Std Dev	662.95604
Std Err Mean	0.8188768
Upper 95% Mean	161.20152
Lower 95% Mean	157.99158
N	655439

## 🖶 Quantiles

100.0%	maximum	6872.1826667
99.5%		2285.5680933
97.5%		562.2332
90.0%		277.8404
75.0%	quartile	200.80933333
50.0%	median	153.31066667
25.0%	quartile	119.116
10.0%		87.113333333
2.5%		-939.6155333
0.5%		-3269.12184
0.0%	minimum	-9083.388

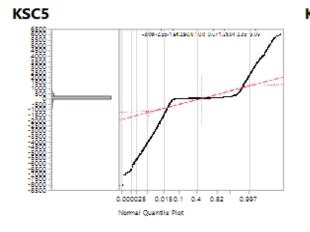
#### Summary Statistics

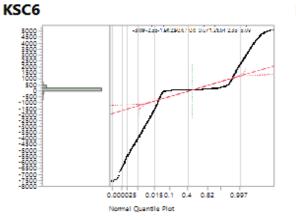
Mean	128.49252
Std Dev	528.22254
Std Err Mean	0.6193042
Upper 95% Mean	129.70634
Lower 95% Mean	127.27871
N	727488

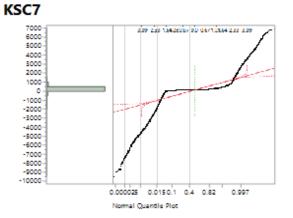
#### Quantiles

100.0%	maximum	8819.7013333
99.5%		2286.9184667
97.5%		488.48316667
90.0%		307.59
75.0%	quartile	242.68233333
50.0%	median	189.224
25.0%	quartile	135.935
10.0%		88.659333333
2.5%		-747.6763333
0.5%		-3208.8287
0.0%	minimum	-9382.976

Mean	156.7688
Std Dev	528.61296
Std Err Mean	0.6521098
Upper 95% Mean	158.04691
Lower 95% Mean	155.49068
N	657104







#### Quantiles

100.0%	maximum	6052.1946667
99.5%		1768.2720267
97.5%		409.0908
90.0%		197.22693333
75.0%	quartile	146.612
50.0%	median	113.5
25.0%	quartile	87.497333333
10.0%		62.1424
2.5%		-793.6312
0.5%		-2640.349733
0.0%	minimum	-8041.912

#### Summary Statistics

Mean	88.743996
Std Dev	424.18331
Std Err Mean	0.500996
Upper 95% Mean	89.725932
Lower 95% Mean	87.76206
N	716867

## Quantiles

100.0%	maximum	5103.9133333
99.5%		1808.22998
97.5%		433.67076667
90.0%		227.04813333
75.0%	quartile	165.71866667
50.0%	median	124.31733333
25.0%	quartile	91.361333333
10.0%		52.908
2.5%		-878.0410333
0.5%		-2554.126293
0.0%	minimum	-7493.770667

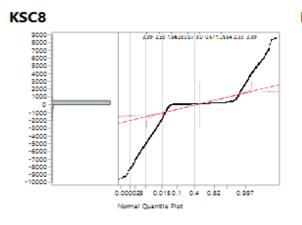
#### **Summary Statistics**

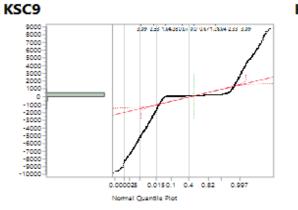
Mean	97.772414
Std Dev	426.18521
Std Err Mean	0.5084172
Upper 95% Mean	98.768895
Lower 95% Mean	96.775933
N	702678

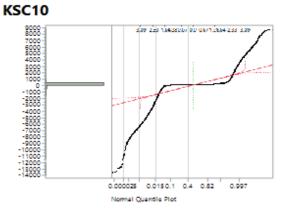
#### Quantiles

100.0%	maximum	6870.964
99.5%		2208.4002133
97.5%		644.983
90.0%		302.49493333
75.0%	quartile	198.38666667
50.0%	median	143.852
25.0%	quartile	108.54666667
10.0%		76.989333333
2.5%		-1007.8594
0.5%		-3217.406187
0.0%	minimum	-9436.321333

Mean	125.17482
Std Dev	520.21805
Std Err Mean	0.6149025
Upper 95% Mean	126.38001
Lower 95% Mean	123.96963
N	715745







#### Quantiles

100.0%	maximum	8685.7466667
99.5%		2210.0898333
97.5%		500.3712
90.0%		285.95866667
75.0%	quartile	216.45733333
50.0%	median	168.75466667
25.0%	quartile	129.06166667
10.0%		93.271066667
2.5%		-934.6845667
0.5%		-3189.762573
0.0%	minimum	-9513.589333

#### **Summary Statistics**

Mean	138.09477
Std Dev	526.63742
Std Err Mean	0.6205223
Upper 95% Mean	139.31098
Lower 95% Mean	136.87857
N	720292

#### Quantiles

100.0%	maximum	8822.728
99.5%		2094.3318867
97.5%		461.79833333
90.0%		274.5944
75.0%	quartile	213.291
50.0%	median	168.05733333
25.0%	quartile	128.92933333
10.0%		94.1868
2.5%		-803.5041333
0.5%		-3233.97888
0.0%	minimum	-9744.029333
75.0% 50.0% 25.0% 10.0% 2.5% 0.5%	median quartile	213.291 168.0573333 128.92933333 94.1868 -803.5041333 -3233.97888

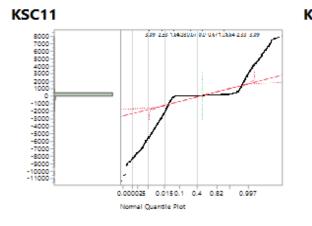
#### **Summary Statistics**

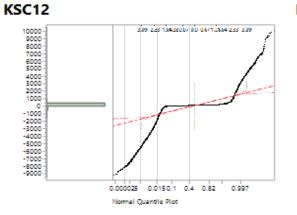
Mean	136.86967
Std Dev	521.13513
Std Err Mean	0.6149628
Upper 95% Mean	138.07498
Lower 95% Mean	135.66436
N	718130

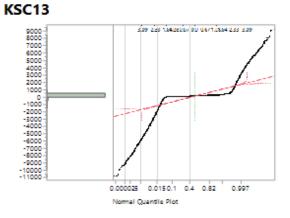
#### Quantiles

100.0%	maximum	8734.6786667
99.5%		2811.5056667
97.5%		493.83903333
90.0%		257.2588
75.0%	quartile	190.09066667
50.0%	median	146.13133333
25.0%	quartile	112.56266667
10.0%		80.408
2.5%		-1248.334867
0.5%		-4357.483993
0.0%	minimum	-13500.284

Mean	100.50526
Std Dev	670.16676
Std Err Mean	0.7951076
Upper 95% Mean	102.06364
Lower 95% Mean	98.946872
N	710418







#### Quantiles

100.0%	maximum	7949.3066667
99.5%		2442.4183467
97.5%		457.352
90.0%		237.3016
75.0%	quartile	178.22666667
50.0%	median	139.44666667
25.0%	quartile	109.832
10.0%		79.5464
2.5%		-1178.8464
0.5%		-3628.420747
0.0%	minimum	-11271.05733

#### **Summary Statistics**

Mean	98.422934
Std Dev	583.74111
Std Err Mean	0.6830643
Upper 95% Mean	99.761718
Lower 95% Mean	97.08415
N	730327

#### Quantiles

100.0%	maximum	10054.16
99.5%		2508.59752
97.5%		459.73066667
90.0%		239.45866667
75.0%	quartile	177.49066667
50.0%	median	138.86133333
25.0%	quartile	109.288
10.0%		82.647466667
2.5%		-831.2830667
0.5%		-3623.645493
0.0%	minimum	-9101.418667

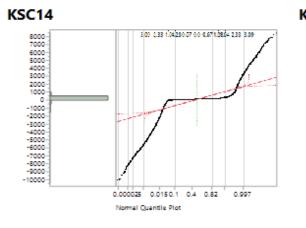
#### **Summary Statistics**

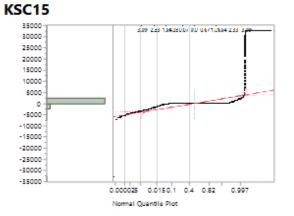
Mean	109.14169
Std Dev	566.32465
Std Err Mean	0.6898631
Upper 95% Mean	110.4938
Lower 95% Mean	107.78958
N	673915

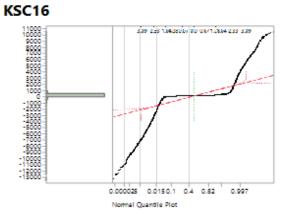
#### 🖶 Quantiles

1			
	100.0%	maximum	9284.0973333
	99.5%		2476.25238
	97.5%		479.64073333
	90.0%		298.232
	75.0%	quartile	234.60533333
	50.0%	median	185.54666667
	25.0%	quartile	135.935
	10.0%		81.674666667
	2.5%		-915.3963667
	0.5%		-3724.703433
	0.0%	minimum	-10718.72267

Mean	143.08029
Std Dev	590.15922
Std Err Mean	0.697615
Upper 95% Mean	144.4476
Lower 95% Mean	141.71299
N	715660







#### Quantiles

100.0%	maximum	8386.5573333
99.5%		2640.64696
97.5%		561.50546667
90.0%		249.6312
75.0%	quartile	183.09333333
50.0%	median	143.44133333
25.0%	quartile	113.388
10.0%		82.840266667
2.5%		-989.3358667
0.5%		-3803.71984
0.0%	minimum	-10023.944

#### **Summary Statistics**

Mean	110.78012
Std Dev	594.04368
Std Err Mean	0.7073728
Upper 95% Mean	112.16654
Lower 95% Mean	109.39369
N	705245

#### Quantiles

100.0%	maximum	32764
99.5%		1874.9395
97.5%		347.87916667
90.0%		205.254
75.0%	quartile	151.89033333
50.0%	median	111.89133333
25.0%	quartile	82.284
10.0%		44.944666667
2.5%		-727.1078333
0.5%		-2264.2665
0.0%	minimum	-32768

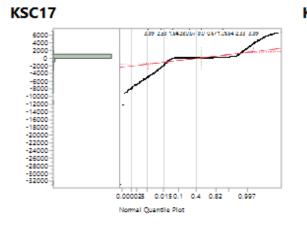
#### Summary Statistics

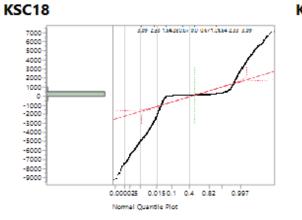
Mean	133.82366
Std Dev	1270.5871
Std Err Mean	1.5665692
Upper 95% Mean	136.89409
Lower 95% Mean	130.75324
N	657824

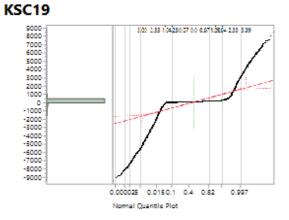
#### Quantiles

100.0%	maximum	10388.962667
99.5%		3220.79544
97.5%		532.13706667
90.0%		314.58133333
75.0%	quartile	241.43333333
50.0%	median	189.89733333
25.0%	quartile	147.01066667
10.0%		104.44293333
2.5%		-983.9785333
0.5%		-4564.484613
0.0%	minimum	-13234.68667

Mean	150.06505
Std Dev	714.69309
Std Err Mean	0.8413425
Upper 95% Mean	151.71405
Lower 95% Mean	148.41604
N	721595







#### Quantiles

100.0%	maximum	6674.9026667
99.5%		2126.1738
97.5%		447.54666667
90.0%		226.43066667
75.0%	quartile	165.22133333
50.0%	median	123.624
25.0%	quartile	88.257333333
10.0%		51.647333333
2.5%		-1053.531833
0.5%		-3327.869567
0.0%	minimum	-32746.156

#### **Summary Statistics**

Mean	86.991835
Std Dev	527.67706
Std Err Mean	0.6234539
Upper 95% Mean	88.213785
Lower 95% Mean	85.769886
N	716354

## Quantiles

100.0%	maximum	7087.7333333
99.5%		2376.2472
97.5%		576.567
90.0%		264.63066667
75.0%	quartile	182.91466667
50.0%	median	138.028
25.0%	quartile	105.75333333
10.0%		76.428
2.5%		-1194.975333
0.5%		-3557.311267
0.0%	minimum	-9161.84

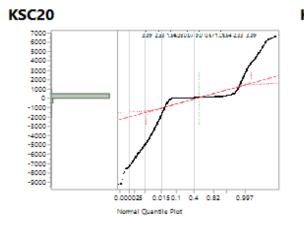
#### **Summary Statistics**

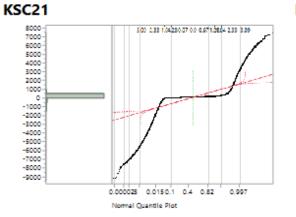
Mean	104.76302
Std Dev	564.17398
Std Err Mean	0.6628041
Upper 95% Mean	106.06209
Lower 95% Mean	103.46394
N	724529

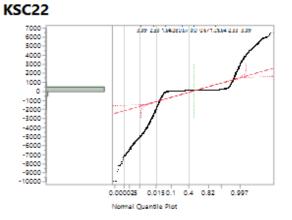
#### Quantiles

100.0%	maximum	8520.9253333
99.5%		2441.1515733
97.5%		468.49046667
90.0%		237.2024
75.0%	quartile	175.536
50.0%	median	137.08266667
25.0%	quartile	108.08933333
10.0%		78.716266667
2.5%		-947.2637333
0.5%		-3529.617373
0.0%	minimum	-9333.362667

Mean	104.74397
Std Dev	559.89816
Std Err Mean	0.6616679
Upper 95% Mean	106.04081
Lower 95% Mean	103.44712
N	716041







#### Quantiles

100.0%	maximum	6744.132
99.5%		2104.7092933
97.5%		435.34513333
90.0%		207.44613333
75.0%	quartile	151.28466667
50.0%	median	116.69066667
25.0%	quartile	90.232
10.0%		62.784
2.5%		-916.4475333
0.5%		-3229.81916
0.0%	minimum	-9167.577333

#### **Summary Statistics**

Mean	85.077838
Std Dev	506.40082
Std Err Mean	0.6061777
Upper 95% Mean	86.265927
Lower 95% Mean	83.88975
N	697893

## Quantiles

100.0%	maximum	7441.3213333
99.5%		2464.5833067
97.5%		443.92693333
90.0%		220.45226667
75.0%	quartile	164.58133333
50.0%	median	129.33066667
25.0%	quartile	102.46133333
10.0%		74.87354386
2.5%		-835.6248
0.5%		-3641.91792
0.0%	minimum	-9166.645333

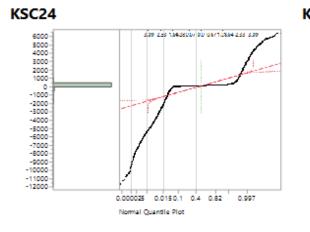
#### **Summary Statistics**

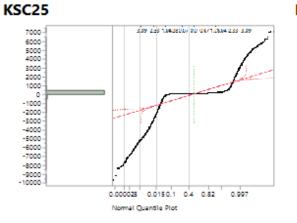
Mean	99.599516
Std Dev	558.17217
Std Err Mean	0.6694064
Upper 95% Mean	100.91153
Lower 95% Mean	98.287502
N	695275

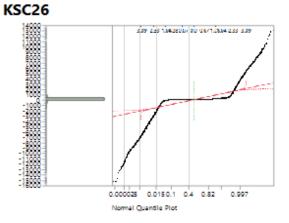
#### Quantiles

100.0%	maximum	6507.92
99.5%		2322.6969267
97.5%		356.8588
90.0%		182.91546667
75.0%	quartile	138.975
50.0%	median	107.348
25.0%	quartile	81.682666667
10.0%		52.329333333
2.5%		-1009.794567
0.5%		-3479.946693
0.0%	minimum	-9881.764

Mean	68.294278
Std Dev	537.01856
Std Err Mean	0.6296818
Upper 95% Mean	69.528434
Lower 95% Mean	67.060122
N	727338







#### Quantiles

100.0%	maximum	6400.2613333
99.5%		2463.96086
97.5%		473.7758
90.0%		235.0756
75.0%	quartile	178.039
50.0%	median	139.49733333
25.0%	quartile	109.98
10.0%		80.346666667
2.5%		-1149.695767
0.5%		-3634.30722
0.0%	minimum	-11581.43733

#### **Summary Statistics**

Mean	100.08246
Std Dev	578.08724
Std Err Mean	0.67646
Upper 95% Mean	101.4083
Lower 95% Mean	98.756617
N	730302

## Quantiles

100.0%	maximum	7104.5333333
99.5%		2571.7459533
97.5%		485.98916667
90.0%		235.57346667
75.0%	quartile	175.85033333
50.0%	median	136.47133333
25.0%	quartile	106.97333333
10.0%		74.892933333
2.5%		-1204.6263
0.5%		-3700.703467
0.0%	minimum	-9597.394667

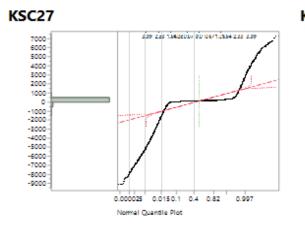
#### **Summary Statistics**

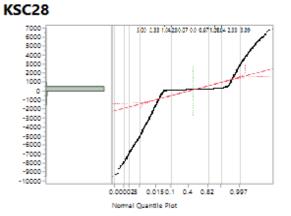
Mean	97.26789
Std Dev	585.27668
Std Err Mean	0.7280282
Upper 95% Mean	98.694801
Lower 95% Mean	95.840978
N	646288

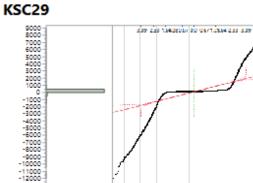
#### Quantiles

100.0%	maximum	13023.558667
99.5%		2995.1208333
97.5%		540.10166667
90.0%		327.39533333
75.0%	quartile	253.00666667
50.0%	median	200.10533333
25.0%	quartile	154.85733333
10.0%		105.16266667
2.5%		-894.0998333
0.5%		-4156.673433
0.0%	minimum	-15167.00933

Mean	164.09545
Std Dev	674.82001
Std Err Mean	0.8019978
Upper 95% Mean	165.66734
Lower 95% Mean	162.52356
N	707994







0.000025 0.0150.1 0.4 0.82

Normal Quantile Plot

0.997

#### Quantiles

maximum	7223.8253333
	2156.3088954
	391.1928
	228.70226667
quartile	175.184
median	136.53466667
quartile	102.76266667
	61.180266667
	-736.7429333
	-3209.351147
	-9072.258667
	quartile median

#### **Summary Statistics**

Mean	105.13906
Std Dev	509.45323
Std Err Mean	0.5968134
Upper 95% Mean	106.3088
Lower 95% Mean	103.96933
N	728671

## Quantiles

100.0%	maximum	6877.1106667
99.5%		2255.36132
97.5%		489.86226667
90.0%		286.944
75.0%	quartile	220.93533333
50.0%	median	174.74666667
25.0%	quartile	140.24133333
10.0%		108.19733333
2.5%		-743.1706
0.5%		-3091.012853
0.0%	minimum	-9424.146667

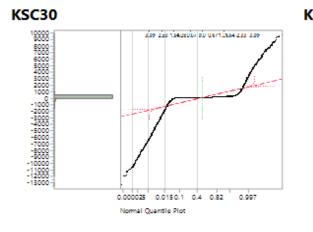
#### **Summary Statistics**

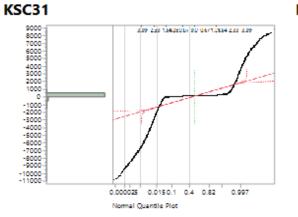
Mean	152.18766
Std Dev	502.20954
Std Err Mean	0.5897497
Upper 95% Mean	153.34355
Lower 95% Mean	151.03177
N	725161

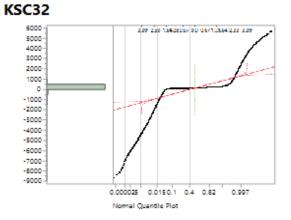
#### Quantiles

100.0%	maximum	8687.3026667
99.5%		2611.3265
97.5%		423.48116667
90.0%		243.06266667
75.0%	quartile	186.94133333
50.0%	median	146.71333333
25.0%	quartile	114.928
10.0%		80.192
2.5%		-921.5293333
0.5%		-3872.133833
0.0%	minimum	-11933.85467

Mean	108.76132
Std Dev	609.14577
Std Err Mean	0.7138691
Upper 95% Mean	110.16048
Lower 95% Mean	107.36216
N	728124







#### Quantiles

100.0%	maximum	9763.112
99.5%		2574.8303333
97.5%		433.597
90.0%		243.752
75.0%	quartile	189.78
50.0%	median	150.89866667
25.0%	quartile	116.87733333
10.0%		79.453333333
2.5%		-896.5
0.5%		-3782.664
0.0%	minimum	-13251.68933

#### **Summary Statistics**

Mean	113.00599
Std Dev	612.08364
Std Err Mean	0.7166111
Upper 95% Mean	114.41053
Lower 95% Mean	111.60146
N	729549

## 🖶 Quantiles

100.0%	maximum	8853.9693333
99.5%		2769.389
97.5%		480.19866667
90.0%		260.344
75.0%	quartile	199.948
50.0%	median	156.79
25.0%	quartile	121.672
10.0%		83.504666667
2.5%		-913.4956667
0.5%		-4178.3745
0.0%	minimum	-10681.85467

#### Summary Statistics

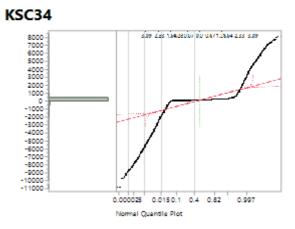
Mean	120.71366
Std Dev	646.15639
Std Err Mean	0.763454
Upper 95% Mean	122.21
Lower 95% Mean	119.21731
N	716324

#### Quantiles

100.0%	maximum	5866.9746667
99.5%		1922.3985667
97.5%		418.447
90.0%		233.744
75.0%	quartile	178.876
50.0%	median	141.58333333
25.0%	quartile	111.91366667
10.0%		81.989333333
2.5%		-722.862
0.5%		-2805.843733
0.0%	minimum	-8573.265333

Mean	116.34205
Std Dev	448.63088
Std Err Mean	0.5260044
Upper 95% Mean	117.373
Lower 95% Mean	115.3111
N	727444

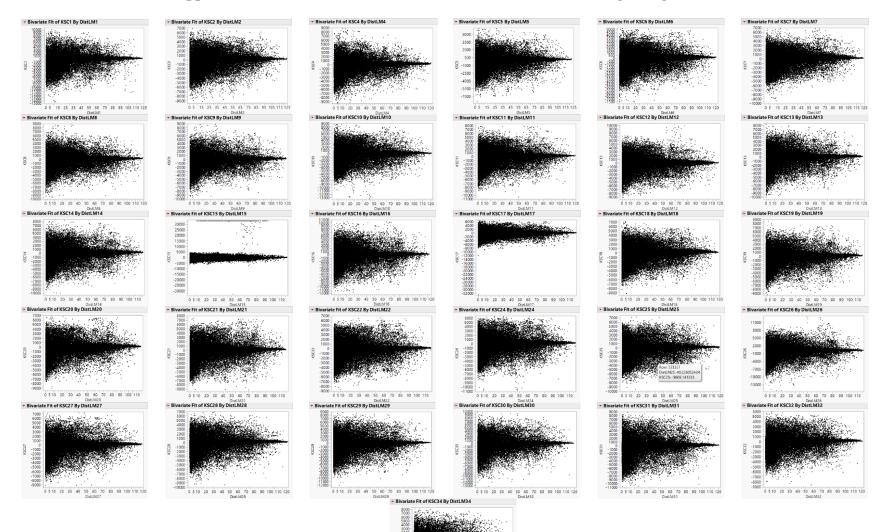
Appendix C: Normal Quantile Plots for EFM Sensor Readings (cont.)



#### Quantiles

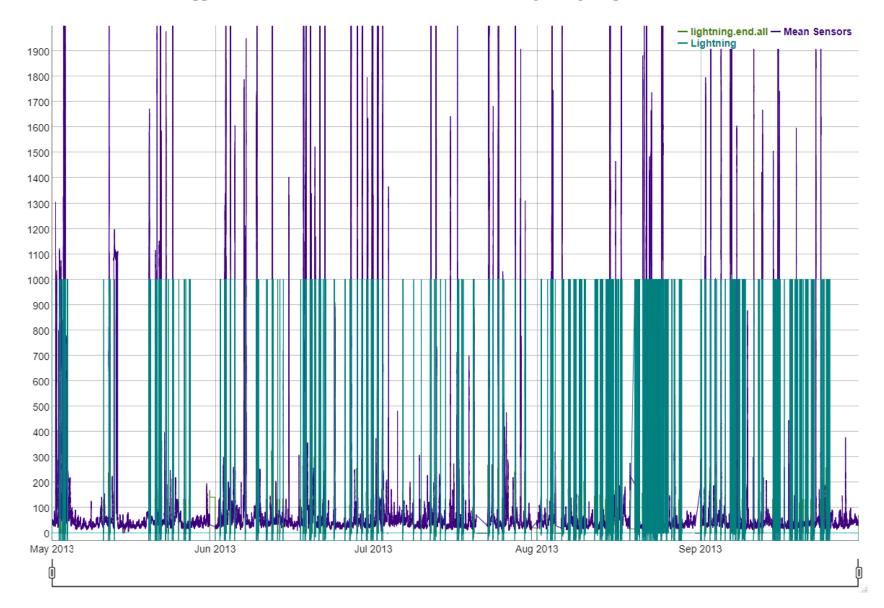
100.0%	maximum	8108.74
99.5%		2479.61252
97.5%		482.88676667
90.0%		270.916
75.0%	quartile	205.60266667
50.0%	median	161.51866667
25.0%	quartile	127.464
10.0%		93.882666667
2.5%		-1106.097233
0.5%		-3590.04974
0.0%	minimum	-10795.02533

Mean	125.46772
Std Dev	580.67973
Std Err Mean	0.709481
Upper 95% Mean	126.85828
Lower 95% Mean	124.07716
N	669872

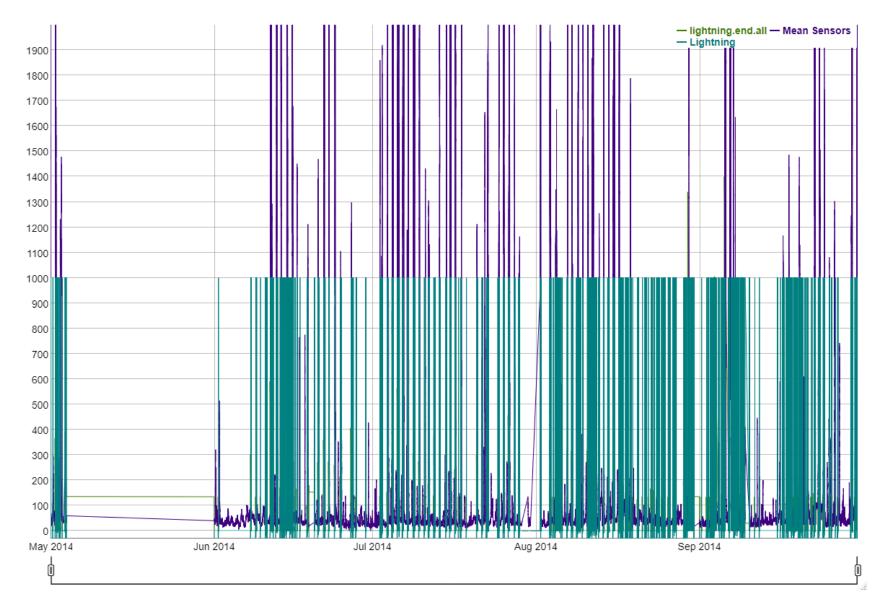


#### Appendix D: Scatter Plot 1-Minute Mean Sensor to Minimum Lightning Distance

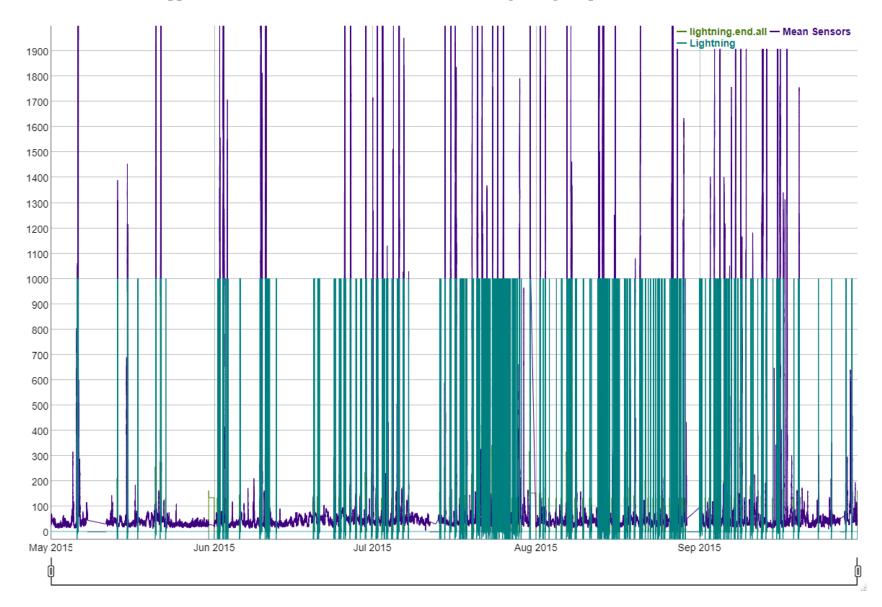
0 5 10 20 30 40 50 60 70 80 90 100 110 120 Diel M34



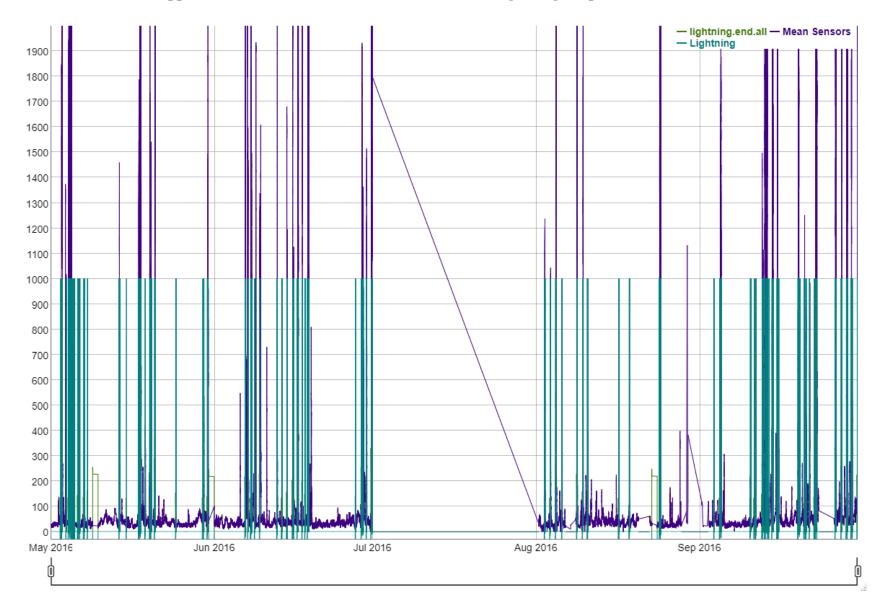
## Appendix E: Annual Centered Mean Sensor and Lightning Response Plots



## Appendix E: Annual Centered Mean Sensor and Lightning Response Plots (cont.)



## Appendix E: Annual Centered Mean Sensor and Lightning Response Plots (cont.)



## Appendix E: Annual Centered Mean Sensor and Lightning Response Plots (cont.)

#### Nominal Logistic Fit for bin.LM1

#### Whole Model Test

Model	-LogLike	lihood	DF	ChiSquare	Prob>ChiSq
Difference Full Reduced	364	62.549 09.108 71.656	31	14325.1	<.0001*
RSquare (U AICc BIC Observatio		wgts)	0.1644 72882.2 73224.2 323042		
Fit Detai	ls				
Lack Of	Fit				
Source	DF	-LogLi	ikelihood	ChiSquare	
Lack Of Fit	322670	3	36409.108	72818.22	
Saturated	322701		0.000	Prob>ChiSq	
Fitted	31	3	36409.108	1.0000	

#### **Parameter Estimates**

					Parame
Term	Estimate	Std Error	ChiSquare	Prob>ChiSq	Term
Intercept	-3.4345366	0.0116424	87027	<.0001*	Intercept
KSC1	-0.0001996	1.6274e-5	150.48	<.0001*	KSC1
KSC2	-0.0002264	2.5038e-5	81.79	<.0001*	KSC2
KSC4	-0.0002041	2.5883e-5	62.19	<.0001*	KSC4
KSC5	0.00010289	3.8419e-5	7.17	0.0074*	KSC5
KSC6	0.00025726	3.8958e-5	43.61	<.0001*	KSC6
KSC7	-0.0001569	0.0000238	43.47	<.0001*	KSC7
KSC8	-0.0001233	3.1413e-5	15.41	<.0001*	KSC8
KSC9	0.00008507	3.442e-5	6.11	0.0135*	KSC9
KSC10	-1.6375e-5	2.3776e-5	0.47	0.4910	KSC10
KSC11	-0.0002889	2.8715e-5	101.22	<.0001*	KSC11
KSC12	9.93856e-5	3.0639e-5	10.52	0.0012*	KSC12
KSC13	-0.0005791	2.8684e-5	407.61	<.0001*	KSC13
KSC14	0.00016264	2.9271e-5	30.87	<.0001*	KSC14
KSC15	0.00010959	4.9057e-5	4.99	0.0255*	KSC15
KSC16	3.02851e-5	2.294e-5	1.74	0.1868	KSC16
KSC17	8.88827e-5	3.6363e-5	5.97	0.0145*	KSC17
KSC18	0.00005272	2.6083e-5	4.09	0.0433*	KSC18
KSC19	0.0003126	3.1918e-5	95.92	<.0001*	KSC19
KSC20	-7.6856e-5	0.0000329	5.45	0.0195*	KSC20
KSC21	-0.0002529	2.5412e-5	99.01	<.0001*	KSC21
KSC22	-0.0002827	2.6229e-5	116.15	<.0001*	KSC22
KSC24	-3.7309e-6	2.2154e-5	0.03	0.8663	KSC24
KSC25	-0.0001287	0.0000178	52.27	<.0001*	KSC25
KSC26	-7.6761e-5	0.0000214	12.86	0.0003*	KSC26
KSC27	-0.0004033	2.5319e-5	253.69	<.0001*	KSC27
KSC28	-0.0004608	2.1489e-5	459.91	<.0001*	KSC28
KSC29	-0.0001099	2.4918e-5	19.44	<.0001*	KSC29
KSC30	0.00031141	2.5715e-5	146.65	<.0001*	KSC30
KSC31	-0.0001078	1.9331e-5	31.08	<.0001*	KSC31
KSC32	-3.0517e-5	3.7259e-5	0.67	0.4128	KSC32
KSC34	-0.0001313	2.7833e-5	22.27	<.0001*	KSC34

#### Nominal Logistic Fit for bin.LM2

Whole Model Test													
Model	-LogLikelihood	DF	ChiSquare	Prob>ChiSq									
Difference Full Reduced	6759.861 39711.048 46470.908	31	13519.72	<.0001*									
RSquare (U AICc BIC Observatio	<sup>))</sup> ns (or Sum Wgts)	0.1455 79486.1 79828 323042											
Fit Detai	ls												
Lack Of Fit													
Source	DF -LogLi	ikelihood	ChiSquare										

# Source Dr Loginerinoud Cinsquare Lack Of Fit 322670 39711.048 79422.1 Saturated 322701 0.000 Prob>ChiSq Fitted 31 39711.048 1.0000

#### Parameter Estimates

Term	Estimate	Std Error	ChiSquare	Prob>ChiSq
Intercept	-3.3256531	0.0110481	90610	<.0001*
KSC1	-0.0001942	1.5811e-5	150.88	<.0001*
KSC2	-0.000215	2.4254e-5	78.56	<.0001*
KSC4	-0.0001949	2.5231e-5	59.65	<.0001*
KSC5	0.0001916	3.7215e-5	26.51	<.0001*
KSC6	0.00020268	3.7682e-5	28.93	<.0001*
KSC7	-0.0002362	2.3212e-5	103.56	<.0001*
KSC8	-0.0001462	3.0421e-5	23.09	<.0001*
KSC9	4.12926e-5	3.3834e-5	1.49	0.2223
KSC10	-2.0877e-5	2.3069e-5	0.82	0.3655
KSC11	-0.0003217	2.7751e-5	134.36	<.0001*
KSC12	5.32543e-5	2.9623e-5	3.23	0.0722
KSC13	-0.0005918	2.7922e-5	449.25	<.0001*
KSC14	0.00019668	2.8731e-5	46.86	<.0001*
KSC15	0.00017843	4.7853e-5	13.90	0.0002*
KSC16	-0.0000108	2.2353e-5	0.23	0.6291
KSC17	0.00006902	3.5681e-5	3.74	0.0531
KSC18	9.42189e-5	2.5665e-5	13.48	0.0002*
KSC19	0.000319	0.0000313	103.83	<.0001*
KSC20	-0.0001351	3.2542e-5	17.24	<.0001*
KSC21	-0.0001507	2.515e-5	35.88	<.0001*
KSC22	-0.0002589	2.5983e-5	99.27	<.0001*
KSC24	-4.2689e-6	0.0000218	0.04	0.8448
KSC25	-0.000191	0.0000174	120.62	<.0001*
KSC26	-6.9438e-5	0.0000212	10.73	0.0011*
KSC27	-0.000319	2.5062e-5	162.01	<.0001*
KSC28	-0.0003991	2.1273e-5	352.04	<.0001*
KSC29	-0.0001197	2.4855e-5	23.18	<.0001*
KSC30	0.00025033	0.0000254	97.11	<.0001*
KSC31	-0.0001213	1.9056e-5	40.51	<.0001*
KSC32	-2.4894e-7	3.6969e-5	0.00	0.9946
KSC34	-9.9828e-6	2.7846e-5	0.13	0.7200

#### Nominal Logistic Fit for bin.LM4

#### Whole Model Test Model -LogLikelihood DF ChiSquare Prob>ChiSq 6627.662 52042.184 Difference 31 13255.32 <.0001\* Full Reduced 58669.846 RSquare (U) AICc 0.1130 104148 104490 BIC Observations (or Sum Wgts) 323042 **Fit Details** Lack Of Fit Source DF -LogLikelihood ChiSquare Lack Of Fit 322670 52038.026 104076.1 322701 4.159 Prob>ChiSq Saturated Fitted 31 52042.184 1.0000

#### **Parameter Estimates**

ratatile	ter Latima	les		
Term	Estimate	Std Error	ChiSquare	Prob>ChiSq
Intercept	-2.9689607	0.0094462	98787	<.0001*
KSC1	-0.0001927	1.5176e-5	161.24	<.0001*
KSC2	-0.0002157	2.3256e-5	86.01	<.0001*
KSC4	-0.0001604	0.0000243	43.57	<.0001*
KSC5	0.00028315	3.6362e-5	60.64	<.0001*
KSC6	0.00019477	3.6312e-5	28.77	<.0001*
KSC7	-0.0001176	2.2049e-5	28.44	<.0001*
KSC8	-2.4949e-5	3.0079e-5	0.69	0.4069
KSC9	-4.3648e-5	3.2863e-5	1.76	0.1841
KSC10	-0.0001138	2.2148e-5	26.40	<.0001*
KSC11	-0.0002248	2.6556e-5	71.66	<.0001*
KSC12	-1.4318e-6	2.8531e-5	0.00	0.9600
KSC13	-0.0004984	2.686e-5	344.32	<.0001*
KSC14	0.00029097	0.0000279	108.74	<.0001*
KSC15	8.16321e-5	4.5779e-5	3.18	0.0746
KSC16	-1.1887e-5	2.1416e-5	0.31	0.5789
KSC17	-3.4426e-5	0.0000334	1.06	0.3026
KSC18	0.00012167	2.4216e-5	25.24	<.0001*
KSC19	0.00019297	3.0263e-5	40.66	<.0001*
KSC20	-3.4731e-5	3.1621e-5	1.21	0.2720
KSC21	-0.0001986	2.3964e-5	68.65	<.0001*
KSC22	-0.0002619	0.0000243	116.09	<.0001*
KSC24	-1.4838e-5	2.0382e-5	0.53	0.4666
KSC25	-0.000201	1.5984e-5	158.06	<.0001*
KSC26	-6.6714e-6	0.0000205	0.11	0.7447
KSC27	-0.0003273	2.4117e-5	184.19	<.0001*
KSC28	-0.0003627	2.0116e-5	325.13	<.0001*
KSC29	-9.2446e-5	2.3743e-5	15.16	<.0001*
KSC30	0.0002456	2.4681e-5	99.02	<.0001*
KSC31	-0.0000443	1.804e-5	6.03	0.0140*
KSC32	-0.0002708	3.4724e-5	60.84	<.0001*
KSC34	0.00001445	2.6615e-5	0.29	0.5872

	-		· bin.LM5			0	stic Fit for	r bin.LM	6		<u> </u>	tic Fit for	bin.LM	7
Whole N	Aodel Test	:			Whole N	Nodel Te	st			Whole N	Nodel Tes	t		
Model	-LogLikelił	hood	DF ChiSquar	e Prob>ChiSq	Model	-LogLike	lihood	DF ChiSqua	are Prob>ChiSq	Model	-LogLikeli	ihood l	DF ChiSqua	re Prob>ChiSo
Difference			31 13033.8	1 <.0001*			08.604	31 11817	.21 <.0001*	Difference	659	7.245	31 13194.	49 <.0001
Full Reduced	50860 57377				Full		54.183 62.786			Full Reduced		2.752 9.997		
Reduced	5757	7.210			Reduced	001	02.760			Neuuceu	5755	5.551		
RSquare (I	D	0.113	6		RSquare (I	J	0.086	67		RSquare (I	J	0.115	1	
AICc	.,	10178	5		AICc	-,	1245	72		AICc	-,	10155	0	
BIC		10212			BIC		1249			BIC		10189		
	ons (or Sum V	Vgts) 32304	2			ons (or Sum	Wgts) 32304	42			ons (or Sum	Wgts) 32304	2	
Fit Deta	ils				Fit Deta	ils				Fit Deta	ils			
Lack Of	Fit				Lack Of	Fit				Lack Of	Fit			
Source	DF -	LogLikelihoo	d ChiSquare		Source	DF	-LogLikeliho	od ChiSqua	re	Source	DF	-LogLikelihoo	d ChiSquar	e
Lack Of Fit	322670	50860.30	6 101720.6		Lack Of Fit	322670	62250.0	24 1245	00	Lack Of Fit	322670	50742.75	2 101485.	5
Saturated	322701	0.00	0 Prob>Chi	q	Saturated	322701	4.1	59 Prob>Cl	niSq	Saturated	322701	0.00	0 Prob>Ch	iSq
Fitted	31	50860.30	1.000	)	Fitted	31	62254.1	83 1.00	000	Fitted	31	50742.75	2 1.00	00
Parame	ter Estimat	tes			Parame	ter Estim	ates			Paramet	ter Estima	ites		
Term	Estimate	Std Error	ChiSquare P	rob>ChiSq	Term	Estimate	e Std Error	ChiSquare	Prob>ChiSq	Term	Estimate		ChiSquare	Prob>ChiSq
	-2.9991989	0.0095642	98337	<.0001*	Intercept	-2.727159		102511	<.0001*		-2.9866465		97882	<.0001*
KSC1 KSC2	-0.0001168 -0.0003478	1.5279e-5 2.3184e-5	58.46 225.07	<.0001* <.0001*	KSC1 KSC2	-0.0001517		110.10 196.96	<.0001* <.0001*	KSC1 KSC2	-0.000147 -0.0003116	1.517e-5 0.0000229	93.93 185.26	<.0001* <.0001*
KSC4	-0.0001685	0.0000242	48.48	<.0001*	KSC4	-0.0001569		46.37	<.0001*	KSC4	-0.0002417		101.11	<.0001*
KSC5	0.00028422	3.6087e-5	62.03	<.0001*	KSC5	0.00025086		53.17	<.0001*	KSC5	0.0002988		69.96	<.0001*
KSC6	0.00010966	3.6132e-5	9.21	0.0024*	KSC6	0.00020603		35.75	<.0001*	KSC6	3.84524e-5		1.13	0.2867
KSC7	-6.0729e-5	0.0000219	7.68	0.0056*	KSC7	-0.0000563	3 2.0835e-5	7.30	0.0069*	KSC7	-0.0001014	0.0000218	21.61	<.0001*
KSC8	-7.6727e-5	2.937e-5	6.82	0.0090*	KSC8	-0.0000916		10.44	0.0012*	KSC8	-0.0001596		30.50	<.0001*
KSC9	2.4867e-5	3.2258e-5	0.59	0.4408	KSC9	-3.7678e-6		0.01	0.9042	KSC9	0.00008874		7.61	0.0058*
KSC10	-8.0683e-5	2.1771e-5	13.73	0.0002*	KSC10	-0.0001378		42.99	<.0001*	KSC10	-7.2285e-5		10.95	0.0009*
KSC11	-0.0003105	2.6351e-5	138.86	<.0001*	KSC11	-0.0001905		57.19	<.0001*	KSC11	-0.0002665		100.20	<.0001*
KSC12	9.60937e-5	2.8216e-5	11.60	0.0007*	KSC12		5 0.0000273	1.86	0.1722	KSC12	0.00015614		30.12	<.0001*
KSC13	-0.0005831	2.688e-5	470.60	<.0001*	KSC13	-0.0005078		386.85	<.0001*	KSC13	-0.0006701	0.0000269	620.21 39.44	<.0001*
KSC14 KSC15	0.00010212 0.00010977	2.7325e-5 4.5025e-5	13.97 5.94	0.0002* 0.0148*	KSC14 KSC15		2 0.0000269	97.87 0.79	<.0001*	KSC14 KSC15	0.00017441	2.777e-5 0.0000453	2.59	<.0001* 0.1078
KSC16	5.41256e-5	2.1839e-5	6.14	0.0132*	KSC15 KSC16	-3.8663e-5		3.45	0.3745 0.0634	KSC15 KSC16	2.68076e-5		1.49	0.2219
KSC10	-0.0001063	3.2782e-5	10.52	0.0012*	KSC10 KSC17	-4.8113e-		2.28	0.1310	KSC10	-0.0001176		12.52	0.0004*
KSC18	8.82471e-5	2.3918e-5	13.61	0.0002*	KSC18	0.00012871		31.31	<.0001*	KSC18	7.87168e-5		10.61	0.0011*
KSC19	0.00026604	3.0269e-5	77.25	<.0001*	KSC19	0.00013781		22.30	<.0001*	KSC19	0.00022167		53.21	<.0001*
KSC20	-3.8258e-5	3.1374e-5	1.49	0.2227	KSC20	-1.2368e-		0.16	0.6848	KSC20	-1.3715e-5		0.19	0.6646
KSC21	-8.2562e-5		11.64	0.0006*	KSC21	-0.0001583		47.54	<.0001*	KSC21	-0.000127		26.80	<.0001*
KSC22	-0.0001963	0.0000246	63.65	<.0001*	KSC22	-0.0001597		46.46	<.0001*	KSC22	-0.0001884		56.46	<.0001*
KSC24		0.0000208	9.49	0.0021*	KSC24	-7.1726e-		13.26	0.0003*	KSC24	-0.0000247		1.34	0.2467
KSC25	-0.0001064	1.6555e-5	41.32	<.0001*	KSC25	-0.0001196		57.73	<.0001*	KSC25	-0.0001229	0.0000169	52.91	<.0001*
KSC26	-2.8182e-5	2.0632e-5	1.87	0.1720	KSC26	-5.2478e-	5 0.0000197	7.10	0.0077*	KSC26	-2.8389e-5		1.90	0.1680
KSC27	-0.0003326	2.4136e-5	189.84	<.0001*	KSC27	-0.0003058		172.73	<.0001*	KSC27	-0.0001887	2.372e-5	63.26	<.0001*
KSC28	-0.000267	2.0234e-5	174.12	<.0001*	KSC28	-0.0002722		195.15	<.0001*	KSC28	-0.00036		316.88	<.0001*
KSC29	-7.6387e-5	0.0000236	10.48	0.0012*	KSC29		5 0.0000229	5.09	0.0240*	KSC29	-4.7819e-5		4.00	0.0456*
KSC30	0.00016505	2.4215e-5	46.46	<.0001*	KSC30	0.00015545		43.79	<.0001*	KSC30	0.00014254		34.58	<.0001*
KSC31	-6.3072e-5	1.8261e-5	11.93	0.0006*	KSC31	-2.8332e-		2.62	0.1058	KSC31	-1.8632e-5		1.02	0.3133
KSC32	-0.000224	3.4964e-5	41.05	<.0001*	KSC32	-0.0002545		56.77	<.0001*	KSC32	-0.0001514		18.11	<.0001*
KSC34	-9.9292e-6	2.04138-5	0.14	0.7070	KSC34	0.00006649	2.5767e-5	6.66	0.0099*	KSC34	1.8/3016-/	0.0000268	0.00	0.9944

Nomina	0						al Logis		1 011112				0		r bin.LM	
Whole N	Iodel Test						/lodel Tes	t					lodel Tes			
<b>Model</b> Difference Full Reduced	-LogLikeli 567 6756 7324	7.196 9.856		<b>5quare</b> 354.39		<b>Model</b> Difference Full Reduced	7484	<b>ihood</b> 08.918 48.692 57.610		<b>quare</b> 217.84	Prob>ChiSq <.0001*	Model Difference Full Reduced	6823	<b>lihood</b> 91.618 33.143 24.761	DF ChiSqu 31 12183	are Prob>Chis 3.24 <.000
RSquare (L AICc BIC Observatio	J) ons (or Sum V	0.077 13520 13554 Vgts) 32304	4 6			RSquare (L AICc BIC Observatio	J) ons (or Sum	0.07 1497 1501 Wgts) 3230	61 03			RSquare (U AICc BIC Observatio	J) ins (or Sum	0.08 1365 1368 Wgts) 3230	30 72	
Fit Detai	ils					Fit Detai	ls					Fit Detai	ls			
Lack Of	Fit					Lack Of	Fit					Lack Of	Fit			
Source	DF -	LogLikelihoo	d ChiSo	quare		Source	DF	-LogLikeliho	od ChiS	quare		Source	DF	-LogLikeliho	od ChiSqua	ire
Lack Of Fit	322670	67565.69	97 135	131.4		Lack Of Fit	322670	74837.6	502 149	675.2		Lack Of Fit	322670	68228.9	84 1364	58
Saturated	322701	4.1	9 Prob	> ChiSq		Saturated	322701	11.0	90 Prob	> ChiSq	1	Saturated	322701	4.1	59 Prob>C	hiSq
Fitted	31	67569.8		1.0000		Fitted	31	74848.6		1.0000		Fitted	31	68233.1	43 1.0	000
Paramet	ter Estima	tes				Paramet	ter Estima	ites				Paramet	er Estima	ates		
Term	Estimate	Std Error	ChiSqua	re Pro	b>ChiSq	Term	Estimate	Std Error	ChiSqua	re Pro	ob>ChiSq	Term	Estimate	Std Error	ChiSquare	Prob>ChiSq
Intercept KSC1 KSC2 KSC4	-2.6230063 -9.5253e-5 -0.0002794 -0.0000895	0.0081487 1.444e-5 2.2031e-5 2.2977e-5	1036 43.5 160.8 15.1	51 87	<.0001* <.0001* <.0001* <.0001*	Intercept KSC1 KSC2 KSC4	-2.4615109 -0.0001538 -0.0003125 -5.7177e-5	1.402e-5 0.0000214	1021 120. 213. 6.	26	<.0001* <.0001* <.0001* 0.0117*	Intercept KSC1 KSC2 KSC4	-2.5943307 -0.0001134 -0.0002686 -0.0001998	1.4366e-5 2.1678e-5	102426 62.28 153.48 76.49	<.0001* <.0001* <.0001* <.0001*
KSC6 KSC7	0.00023312 0.00014114 1.68337e-5	3.4442e-5 0.000034 2.0828e-5	45.8 17.2 0.6	23 65			0.00031374 0.00009081 2.05524e-5 -7.2321e-5	3.3273e-5 2.013e-5	85. 7. 1. 6.	15 )4	<.0001* 0.0063* 0.3073 0.0094*	KSC5 KSC6 KSC7 KSC8	0.00027095 6.47319e-5 -2.9141e-5 -0.0001418	5 3.3943e-5 5 2.0585e-5	62.92 3.64 2.00 26.15	<.0001* 0.0565 0.1569 <.0001*
KSC8 KSC9 KSC10 KSC11	-0.000104 -4.8073e-5 -0.0001268 -0.0001874	2.8224e-5 3.1058e-5 0.0000208 2.495e-5	13.5 2.4 37.7 56.4	40 16	0.0002* 0.1217 <.0001* <.0001*	KSC9 KSC10 KSC11	-0.0001103 -0.0001598 -0.0001737	0.0000307 0.0000205	12. 60. 49.	91 34	0.0003* <.0001* <.0001*	KSC9 KSC10 KSC11	-0.0001418 5.92131e-5 -0.0001296 -0.0001803	3.0844e-5 0.0000208	3.69 38.87 51.45	<.0001* 0.0549 <.0001* <.0001*
	7.37633e-5 -0.0005166 0.00034055	2.7155e-5 2.5568e-5 0.0000269	7.3 408.2 160.1	25 17	0.0066* <.0001* <.0001*	KSC12 KSC13 KSC14 KSC15	0.00014664 -0.0005026 0.0003175 -4.577e-5	2.514e-5 2.6486e-5	29. 399. 143. 1.	57 70	<.0001* <.0001* <.0001* 0.2817	KSC13 KSC14	0.00013407 -0.0005878 0.000182	2.5538e-5 2.6368e-5	24.53 529.69 47.64	<.0001* <.0001* <.0001*
KSC19	-0.0001253 9.27886e-7 -6.6912e-5 0.00016967 0.00011211		8.4 0.0 4.6 55.6 14.9	00 60 63 98	0.0036* 0.9645 0.0320* <.0001* 0.0001*	KSC16 KSC17 KSC18 KSC19	0.00002032 -0.0001673 0.00014613 0.0001056	2.0658e-5 3.0489e-5 2.2165e-5 2.8835e-5	0. 30. 43. 13.	97 12 47 41	0.3253 <.0001* <.0001* 0.0002*	KSC19	-1.7891e-6 4.68079e-5 -0.0001304 0.00011287 0.00014282	2.104e-5 3.1053e-5 2.2619e-5 2.8869e-5	0.00 4.95 17.63 24.90 24.48	0.9666 0.0261* <.0001* <.0001* <.0001*
KSC20 KSC21 KSC22 KSC24	-8.508e-5 -0.000197 -0.0001712 2.00143e-5	3.012e-5 0.0000229 2.3186e-5 1.9368e-5	7.9 74.0 54.9 1.0	00 53 07	0.0047* <.0001* <.0001* 0.3014	KSC20 KSC21 KSC22 KSC24 KSC25	-7.675e-5 -0.0001943 -0.0001407 -0.0000349 -0.0002426	2.2751e-5 2.2566e-5 1.8786e-5	6. 72. 38. 3. 274.	39 15	0.0100* <.0001* <.0001* 0.0632 <.0001*	KSC20 KSC21 KSC22 KSC24	-1.2838e-5 -0.000124 -0.0002464 -1.3787e-5	2.2984e-5 2.3147e-5 1.9578e-5	0.18 29.11 113.34 0.50	0.6695 <.0001* <.0001* 0.4813
KSC25 KSC26 KSC27 KSC28	-0.0002203 3.3571e-5 -0.0002868 -0.0003155	1.5162e-5 1.9665e-5 2.3013e-5 1.8948e-5	211.0 2.9 155.3 277.3	91 35 34	<.0001* 0.0878 <.0001* <.0001*	KSC26 KSC27 KSC28	6.42261e-5 -0.0003151 -0.0002616	1.9634e-5 2.2931e-5 1.8617e-5	10. 188. 197.	70 33 40	0.0011* <.0001* <.0001*	KSC25 KSC26 KSC27 KSC28	-0.0001012 -1.1213e-7 -0.000245 -0.0001886	1.9862e-5 2.2889e-5 1.9334e-5	42.87 0.00 114.58 95.17	<.0001* 0.9955 <.0001* <.0001*
KSC29 KSC30 KSC31 KSC32	-6.026e-6 0.00021346 -1.1238e-5 -0.0003093	2.2637e-5 2.3328e-5 1.7134e-5 3.2835e-5	0.0 83.7 0.4 88.7	73 43	0.7901 <.0001* 0.5119 <.0001*	KSC29 KSC30 KSC31 KSC32 KSC34	5.93973e-5 0.00018455 -2.2924e-6 -0.0003846 1.86111e-5	2.3082e-5 1.6774e-5 3.2259e-5	7. 63. 0. 142.	93 )2	0.0074* <.0001* 0.8913 <.0001* 0.4534	KSC29 KSC30 KSC31 KSC32 KSC34	-0.0000746 0.00011173 -0.0000282 -0.0002517	2.3144e-5 1.7356e-5	10.92 23.30 2.64 57.31 2.08	0.0010* <.0001* 0.1042 <.0001*

Appendix F: Nominal L	ogistic Re	egression Mo	del to Pred	ict Storms	(cont.)

Whole Model Test         Whole Model Test         Whole Model Test         Umble Model Test           Difference         562.9910         31         11659.82         <.0001         Pfference         6141.499         31         12283         <.0001         Pfference         6483.357         31         1296.67           Reduced         0.0000         0.0000         Preduced         6141.499         31         12283         <.0001         Pfference         6483.357         31         1296.67           Reduced         0.0000         Preduced         0.0000         Pfference         6483.357         31         1296.67           Reduced         0.0000         Pfference         Ffference         6483.357         31         1287.6611         1287.6611         1287.6611         1287.6611         1287.6611         1287.6611         1287.6611         1287.6611         1287.6611         1287.6611         1287.6611         1287.6611         1287.6611 </th <th></th> <th></th> <th></th> <th>bin.LM11</th> <th></th> <th></th> <th>-</th> <th>tic Fit fo</th> <th>r bin.LN</th> <th><b>M</b>12</th> <th></th> <th></th> <th></th> <th>tic Fit for</th> <th>bin.LM</th> <th>13</th>				bin.LM11			-	tic Fit fo	r bin.LN	<b>M</b> 12				tic Fit for	bin.LM	13
Difference Full Reduced         S82.9910 (7)244722         31         11659.82 (Fither Difference Bit / Addition Bit / A																
Full Reduced         77434.722 Bit Base4.632         Full Bit Base4.632         Bit Base4.632         Full Bit Base4.632         Bit Base4.632           Reduced         0.0700 AIC         0.0700 154933         Bit Passa         0.0703 AIC         0.0703 162416         0.0703 AIC         0.0703 162416         0.0703 AIC         0.0703 AIC         0.0703 162416         0.0703 AIC         0.0703 AIC         0.0703 AIC         0.0703 BIC         0.0703 AIC         0.0703 BIC         0.0703 AIC         0.0703 BIC         0.0703 AIC         0.0703 BIC         0.0703 BIC <td< th=""><th></th><th></th><th></th><th></th><th>•</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>•</th><th>are Prob&gt;ChiSe</th></td<>					•										•	are Prob>ChiSe
AICc       154933       AICc       162617       AICc       162758         Discrutions (or Sum Wgts)       323042       Discrutions (or Sum Wgts)       323042       Discrutions (or Sum Wgts)       323042         Lack OF Fit       End Lack OF Fit       Source       DF       -LogLikelhood       ChiSquare       Lack OF Fit       Source       DF       -LogLikelhood       ChiSquare       Lack OF Fit       Source       DF       -LogLikelhood       ChiSquare       Source       DF       -LogLikelhoof       ChiSquare       Sour	Full	77434	4.722	31 11059.82	<.0001^	Full	812	76.611	31 1	2283	<.0001*	Full	8117	5.902	31 1290	5.71 <.0001
Fit Details         Fit Details           Lack OF Fit           Source DF -LogLikelihood ChiSquare           Lack OF Fit         Source DF -LogLikelihood ChiSquare           Lack OF Fit         Source DF -LogLikelihood ChiSquare           Lack OF Fit         Source DF -LogLikelihood ChiSquare           Lack OF Fit         Source DF -LogLikelihood ChiSquare           Term Estimate Std Error ChiSquare Prob>ChiSquare Prob>ChiSquare Prob>ChiSquare Prob>ChiSquare Statuared           Source DF -LogLikelihood ChiSquare           Source DF -LogLikelihood ChiSquare           Source DF -LogLikelihood ChiSquare           ChiSquare Prob>ChiSquare Prob>ChiSquare           ChiSquare Prob>ChiSquare Prob>ChiSquare           Source DF -LogLikelihood ChiSq	AICc BIC		15493 15527	3 5		AICc BIC		1626 1629	17 59			AICc BIC		16241 16275	6 8	
Source         DF         -LogLikelihood         ChiSquare         Source         DF         -LogLikelihood         ChiSquare           Lack OF Iri         322670         17430.563         154861.1         Lack OF Iri         322670         812641.34         162528.3         Lack OF Iri         322670         81164.812         162329.6           Fitted         31         77434.722         1.0000         Fitted         321         81175.902         1.0000           Parameter Estimates         Std Error         ChiSquare         Prob>ChiSq         Fitted         31         81175.902         1.000           KSC1         -0.000137         12989e-5         54.23         <.0001*																
Source         DF         -LogLikelihood         ChiSquare         Source         DF         -LogLikelihood         ChiSquare         Source         DF         -LogLikelihood         ChiSquare           Lack OF Fit         322670         1199         Prob-ChiSq         Saturated         322670         81264.134         165238.3         Lack OF Fit         322670         81164.812         162329.6           Fitted         31         77434.722         1.0000         Fitted         321         81175.902         10.000           Parameter Estimates         Std Eror         ChiSquare         Prob>ChiSq         Fitted         31         81175.902         10.000           KSC1         -0.0001312         23986-5         342.23         -0.001*         KSC1         -0.000169         132779-5         63.13         -0.001*         KSC2         -0.0001717         3898-5         70.54           KSC2         -0.000132         23846-5         22.43         32.257         30.00738         -0.001*         KSC1         -0.000177         3898-5         70.54           KSC4         -0.000137         20985-5         22.24         -0.00187         20.22833         0.00738         20.001*         KSC2         -0.00017         3.0889-5 <t< td=""><td>Lack Of</td><td>Fit</td><td></td><td></td><td></td><td>Lack Of</td><td>Fit</td><td></td><td></td><td></td><td></td><td>Lack Of</td><td>Fit</td><td></td><td></td><td></td></t<>	Lack Of	Fit				Lack Of	Fit					Lack Of	Fit			
Saturated Fitted         322701         4.159 77434.722         Prob>ChSq 1.000         Saturated Fitted         322701         12.477 81276.611         Prob>ChSq 10.000         Saturated Fitted         322701         11.090         Prob>ChSq 10.000           Parameter         Estimate         Sd Erro         ChSquare         Prob>ChSq 10073567         Parameter         Fitted         31         81175.902         1.000           Parameter         Estimate         Sd Erro         ChSquare         Prob>ChSq 10073567         Parameter         Par	Source	DF -	LogLikelihoo	d ChiSquare		Source	DF	-LogLikeliho	od ChiSqu	uare		Source	DF	-LogLikelihoo	d ChiSqua	are
Fitted         31         77434.722         1.0000         Fitted         31         81276.611         1.0000         Fitted         31         81175.902         1.000           Parameter Estimates         Parameter Estimates         ChiSquare Prob-ChiSq         Ferm         Estimate         Std Error         ChiSquare Prob-ChiSq           KSC1         -0.0001312         20965e-5         222.98         <0001*	Lack Of Fit		77430.56	53 154861.1		Lack Of Fit	322670	81264.1	34 1625	28.3		Lack Of Fit	322670	81164.8	12 16232	9.6
Parameter Estimates         Parameter Estimates         Parameter Estimates         Parameter Estimates         Parameter Estimates           Term         Estimate         Std Error         ChiSquare         Prob>ChiSq         Intercept         -2.3308424         0.0073567         100383         -0.0011         Std Error         ChiSquare         Prob>ChiSq         100383         -0.0011         Std Error         ChiSquare         Parameter Estimates         Std Error         ChiSquare         Parameter Estimates         98229         9826         -0.0001379         23287e-5         68.35         >0.00014         KSC1         -0.0001677         20128         SC2         -0.0001379         23287e-5         86.35         >0.00014         KSC2         -0.0001677         20128         SC2         0.0000373         32376e-5         10.20         0.00014         KSC3         -0.00014         KSC3         -0.000148         220128         SC3	Saturated	322701	4.15	<sup>59</sup> Prob > ChiSo	1	Saturated	322701	12.4	77 Prob>	ChiSq		Saturated	322701	11.0	90 Prob>C	hiSq
Term         Estimate         Std Error         ChiSquare         Prob>ChiSq         Term         Estimate         Std Error         ChiSquare         Prob>ChiSq           Intercept         -24143315         0.0075562         102091         <.0001*	Fitted	31	77434.72	1.0000		Fitted	31	81276.6	11 1.	.0000		Fitted	31	81175.9	02 1.0	000
Intercept         2.414315         0.0075862         102091         <0001*         Intercept         2.330842         0.0073857         100383         <0001*         Intercept         2.3328393         0.0073884         99829           KSC1         -0.0001311         2.0956+5         22.298         <0001*	Paramet	ter Estimat	tes			Paramet	ter Estim	ates				Paramet	ter Estima	tes		
KSC1       -0.0001027       1.3939e-5       54.23       <.0001*																•
KSC2       -0.0003131       2.0965e-5       22.298       <.0001*																<.0001*
KSC4       -0.000122       2.2344-5       29.79       <.0001*																<.0001* <.0001*
KSC5         0.00033428         3.3452e-5         99.86         <.0001*         KSC6         0.00036217         3.3919e-5         114.01           KSC6         3.00975e-5         3.2825e-5         0.84         0.3592         KSC6         0.0000673         3.2356e-5         4.64         0.0012*         KSC6         0.0000317         3.2812e-5         1.02           KSC7         -1.202e-5         1.975e-5         0.37         0.5428         KSC7         -3.0778e-5         2.49         0.1148         KSC7         8.21419e-5         1.922e-5         1.700           KSC8         -0.0001837         2.2256e-5         3.40         0.0653         KSC9         -0.000133         3.037e-5         1.837           KSC10         -0.0001837         2.0226e-5         8.2.1         <.0001*																0.6007
KSC6         3.00975e-5         3.2825e-5         0.84         0.3592         KSC6         0.00006973         3.2356e-5         4.64         0.0312*         KSC6         0.0000317         3.2871e-5         1.02           KSC7         -1.202e-5         1.975e-5         0.37         0.5428         KSC7         -3.0778e-5         1.952e-5         2.49         0.1148         KSC7         8.2119e-5         1.922e-5         1.700           KSC8         -0.00016         0.000027         35.10         <.0001*																<.0001*
KSC7       -1.202e-5       1.975e-5       0.37       0.5428       KSC8       -0.00016       0.0114       KSC7       8.21419e-5       1.922e-5       17.00         KSC8       -0.00016       0.000027       35.10       <.0001*																0.3129
KSC9       3.3766e-5       2.9784e-5       1.28       0.2578       KSC10       -0.0001837       KSC9       -0.000133       3.0337e-5       18.37         KSC10       -0.0001837       2.0226e-5       82.51       <.0001*					0.5428					9 0	).1148	KSC7	8.21419e-5		17.00	<.0001*
KSC10       -0.0001837       2.0226e-5       82.51       <.0001*																0.0003*
KSC11       -0.0001364       2.4415e-5       31.20       <.0001*																<.0001*
KSC12       0.00013183       2.6478e-5       24.79       <.0001*																<.0001*
KSC13       -0.0005047       2.4767e-5       415.32       <.0001*																<.0001*
KSC14       0.00023914       0.00026       84.61       <.0001*       KSC14       0.00029027       0.0000258       126.65       <.0001*       KSC14       0.000272       0.0000258       111.53         KSC15       -4.183e-5       4.1775e-5       1.00       0.3167       KSC15       -3.0828e-5       0.55       0.4574       KSC15       -3.7955e-5       0.000042       0.82         KSC17       -0.001135       3.0078e-5       14.24       0.0002*       KSC17       -9.8055e-5       2.9821e-5       10.81       0.0010*       KSC17       -0.0001375       3.0022e-5       20.99         KSC18       9.56941e-5       2.1785e-5       19.29       <.0001*       KSC18       7.14943e-5       2.1541e-5       11.02       0.0001*       KSC18       0.00011185       2.1827e-5       26.26         KSC19       0.00016696       0.0000284       34.55       <.0001*       KSC21       -0.0017*       KSC21       -0.00017*       KSC21       -0.00010148       0.000283       13.76         KSC21       -0.000184       2.227re-5       96.23       <.0001*       KSC21       -0.001752       2.2737e-5       9.81       0.0017*       KSC21       -0.0001662       2.242e-5       48.54       KSC24       -0.0001562 <td></td> <td>KSC12</td> <td></td> <td></td> <td></td> <td>&lt;.0001*</td>												KSC12				<.0001*
KSC15       -4.183e-5       4.1775e-5       1.00       0.3167       KSC15       -3.0828e-5       0.55       0.4574       KSC15       -3.7965e-5       0.000042       0.82         KSC16       4.32088e-5       0.0000204       4.49       0.0342*       KSC16       -2.0569e-5       1.9928e-5       1.07       0.3020       KSC16       -4.4345e-5       2.0017e-5       4.91         KSC17       -0.0001135       3.0078e-5       14.24       0.0002*       KSC18       7.14943e-5       2.9821e-5       10.81       0.0010*       KSC17       -0.00011185       2.1827e-5       26.26         KSC19       0.00016696       0.0000284       34.55       <.0001*					<.0001*						<.0001*	KSC13				<.0001* <.0001*
KSC16       4.32088e-5       0.000204       4.49       0.0342*       KSC16       -2.0569e-5       1.9928e-5       1.07       0.3020       KSC16       -4.4345e-5       2.0017e-5       4.91         KSC17       -0.0001135       3.0078e-5       14.24       0.0002*       KSC17       -9.8055e-5       2.9821e-5       10.81       0.0010*       KSC17       -0.0001375       3.0022e-5       20.99         KSC18       9.56941e-5       2.1785e-5       19.29       <.0001*																0.3661
KSC17       -0.0001135       3.0078e-5       14.24       0.0002*       KSC17       -9.8055e-5       2.9921e-5       10.81       0.0010*       KSC17       -0.0001375       3.0022e-5       20.99         KSC18       9.56941e-5       2.1785e-5       19.29       <.0001*																0.0267*
KSC18       9.56941e-5       2.1785e-5       19.29       <.0001*       KSC18       7.14943e-5       2.1541e-5       11.02       0.0009*       KSC18       0.0001185       2.1827e-5       26.26         KSC19       0.00016696       0.0000284       34.55       <.0001*																<.0001*
KSC19       0.00016696       0.0000284       34.55       <.0001*       KSC19       0.00012287       2.8063e-5       19.17       <.0001*       KSC19       0.00010498       0.0000283       13.76         KSC20       -3.8622e-5       2.9148e-5       1.76       0.1852       KSC20       -9.0017e-5       2.8739e-5       9.81       0.0017*       KSC20       -0.0001001       2.9111e-5       11.82         KSC21       -0.0001844       2.227r-5       96.23       <.0001*																<.0001*
KSC20       -3.8622e-5       2.9148e-5       1.76       0.1852       KSC20       -9.0017e-5       2.8739e-5       9.81       0.0017*       KSC20       -0.000101       2.9111e-5       11.82         KSC21       -0.0002195       2.2377e-5       96.23       <.0001*																0.0002*
KSC21       -0.0002195       2.2377e-5       96.23       <.0001*       KSC21       -0.0001532       2.2137e-5       47.92       <.0001*       KSC21       -0.0001562       2.242e-5       48.54         KSC22       -0.001844       2.2227e-5       68.83       <.0001*																0.0006*
KSC22       -0.0001844       2.2227e-5       68.83       <.0001*       KSC22       -0.000157       2.1947e-5       51.16       <.0001*       KSC22       -0.0001458       2.2087e-5       43.59         KSC24       -5.7275e-5       1.8731e-5       9.35       0.0022*       KSC24       -0.0000184       1.37       0.2422       KSC24       -3.4732e-5       1.8363e-5       3.58         KSC25       -0.000927       1.494e-5       38.50       <.0001*	KSC21	-0.0002195	2.2377e-5	96.23								KSC21				<.0001*
KSC25         -0.0000927         1.494e-5         38.50         <.0001*         KSC25         -0.0002272         1.442e-5         248.06         <.0001*         KSC25         -0.0003069         1.4262e-5         463.13           KSC26         7.52896e-6         1.9244e-5         0.15         0.6956         KSC26         9.75532e-6         0.000191         0.26         0.6095         KSC26         5.49449e-5         1.9351e-5         8.06           KSC27         -0.0003037         2.243e-5         183.28         <.0001*	KSC22				<.0001*	KSC22	-0.000157	2.1947e-5	51.16	5 <	:.0001*	KSC22		2.2087e-5		<.0001*
KSC26         7.52896e-6         1.9244e-5         0.15         0.6956         KSC26         9.75532e-6         0.000191         0.26         0.6095         KSC26         5.49449e-5         1.9351e-5         8.06           KSC27         -0.0003037         2.243e-5         183.28         <.0001*	KSC24				0.0022*											0.0586
KSC27         -0.0003037         2.243e-5         183.28         <.0001*         KSC27         -0.0003156         2.2368e-5         199.06         <.0001*         KSC27         -0.0002276         2.2315e-5         103.99           KSC28         -0.0002152         1.8553e-5         134.55         <.0001*																<.0001*
KSC28         -0.0002152         1.8553e-5         134.55         <.0001*         KSC28         -0.0002762         1.8288e-5         228.02           KSC29         0.0000579         2.1589e-5         7.19         0.0073*         KSC29         0.00008039         2.1447e-5         14.05         0.0002*         KSC29         8.42035e-5         2.1789e-5         2.1493           KSC30         0.00010007         0.0000244         19.96         <.0001*								5 0.0000191								0.0045*
KSC29         0.0000579         2.1589e-5         7.19         0.0073*         KSC29         0.00008039         2.1447e-5         14.05         0.0002*         KSC29         8.42035e-5         2.1789e-5         14.93           KSC30         0.0001007         0.0000224         19.96         <.0001*																<.0001*
KSC30         0.00010007         0.0000224         19.96         <.0001*         KSC30         0.00014178         2.238e-5         40.13         <.0001*         KSC30         0.000103         2.2553e-5         20.86           KSC31         -5.7112e-6         0.0000168         0.12         0.7338         KSC31         1.51452e-5         1.657e-5         0.84         0.3607         KSC31         0.00002579         1.6536e-5         2.43						KSC28	-0.0002391					KSC28	-0.0002/62	1.8288e-5		<.0001*
KSC31 -5.7112e-6 0.0000168 0.12 0.7338 KSC31 1.51452e-5 1.657e-5 0.84 0.3607 KSC31 0.00002579 1.6536e-5 2.43																0.0001*
												KSC30				<.0001*
																0.1188 <.0001*
KSC34 2.72754e-6 2.4331e-5 0.01 0.9107 KSC34 0.00002148 2.4165e-5 0.79 0.3740 KSC34 0.00010182 2.4915e-5 16.70																<.0001*

	0		bin.LM1	4			stic Fit fo	r bin.LN	115				tic Fit for	bin.LM	16
	Nodel Test					Nodel Tes						/lodel Tes			
<b>Model</b> Difference Full Reduced	-LogLikelil 6383 90367 96750	3.375 7.497	DF ChiSquare 31 12766.75	Prob>ChiSq <.0001*		916	44.115 48.368 92.483	DF ChiSqu 31 1248		> ChiSq <.0001*	Model Difference Full Reduced	8937		<b>DF ChiSqua</b> 31 1311	re Prob>ChiSq 37 <.0001*
RSquare (I AICc BIC Observatio		0.066 18079 18114 Vgts) 32304	9 1		RSquare (I AICc BIC Observatic	U) ons (or Sum	0.06 1833 1837 Wgts) 3230	61 03			RSquare (U AICc BIC Observatic	J) ons (or Sum '	0.068 17880 17915 Wgts) 32304	) 	
Fit Deta	ils				Fit Deta	ils					Fit Deta	ils			
Lack Of	Fit				Lack Of	Fit					Lack Of	Fit			
<b>Source</b> Lack Of Fit	DF -	90356.40			<b>Source</b> Lack Of Fit	322670	-LogLikeliho 91635.8	•			Source Lack Of Fit	DF 322670	-LogLikelihoo 89361.32	•	
Saturated Fitted	322701 31	11.09 90367.49			Saturated Fitted	322701 31	12.4 91648.3		<b>ChiSq</b> 1000		Saturated Fitted	322701 31	11.09 89372.41		
	ter Estimat					ter Estima						ter Estima			
Term	Estimate	Std Error	ChiSquare P	rob>ChiSq	Term	Estimate	e Std Error	ChiSquare	Prob>Ch	niSq	Term	Estimate	Std Error	ChiSquare	Prob>ChiSq
Intercept KSC1 KSC2 KSC4 KSC5 KSC6 KSC7 KSC8 KSC9 KSC10 KSC10 KSC12 KSC13 KSC14 KSC15 KSC16 KSC17 KSC18 KSC16 KSC17 KSC18 KSC19 KSC20 KSC21 KSC22 KSC22 KSC22 KSC24 KSC25	-2.1744633 -0.0003504 1.39075e-5 0.00033041 -0.0001521 0.00011554 -0.0001649 -5.423e-5 -0.0001977 -0.0001493 0.00015287 -0.0003994 0.00025164 2.13085e-5 -4.8817e-5 -0.00011835 -0.00011835 -0.00011835 -0.0001016 -0.0001055 -0.0001055 -0.000055 -0.000055 -0.000055 -0.000055 -0.000055 -0.000055 -0.000055 -0.000055 -0.00055 -0.00055 -0.00055 -0.00055 -0.00055 -0.00055 -0.00055 -0.00055 -0.00055 -0	0.006979 1.3629e-5 2.0547e-5 2.1984e-5 3.3146e-5 3.3146e-5 3.19455e-5 2.6719e-5 0.0000294 1.9813e-5 2.5834e-5 0.0000237 0.0000251 4.0934e-5 1.9378e-5 2.9371e-5 2.1878e-5 2.1878e-5 2.1878e-5 2.1878e-5 1.7855e-5 1.3928e-5	97078 19.38 290.83 0.40 99.37 2.65 35.27 38.07 3.40 99.61 38.91 35.02 283.90 100.49 0.27 6.35 21.98 30.95 8.84 12.95 25.07 52.40 6.88 537.85	<.0001* <.0001* 0.5270 <.0001* 0.001* 0.0650 <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* 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KSC4 KSC5 KSC6 KSC7 KSC8 KSC9 KSC10 KSC10 KSC12 KSC13 KSC14 KSC15 KSC16 KSC16 KSC17 KSC18 KSC19 KSC20 KSC21 KSC22 KSC22 KSC24 KSC25	-2.1505567 -7.7777e-5 -0.0003495 2.89216e-5 7.7512e-5 7.7512e-5 -0.0001918 -1.4136e-6 -0.0001918 -0.0001926 0.00013649 -0.0001926 0.00013649 -3.2633e-5 -6.7265e-5 3.5633e-5 -6.7265e-5 9.69637e-5 -0.0000722 -0.0001077 -0.000167 -0.0000164 -0.0000345 -0.0000345	0.0069155           1.3528e-5           2.0376e-5           2.0376e-5           2.1882e-5           3.2773e-5           0.0000317           1.9178e-5           2.6514e-5           2.9051e-5           0.0000237           2.4966e-5           0.0000235           2.4966e-5           0.000013           2.8934e-5           2.0755e-5           2.0755e-5           2.0755e-5           2.307e-5           2.00000193           2.8934e-5           2.00000193           2.807e-5           1.0000217           0.0000217           1.786e-5           1.3944e-5	96707 33.06 294.28 0.04 85.97 0.83 16.33 52.33 0.00 85.48 66.08 28.31 302.94 91.57 0.83 2.86 5.40 0.00 12.58 6.62 21.97 61.60 3.69 309.81	<.00 <.00 0.85 <.00 0.36 <.00 0.96 <.00 <.00 <.00 <.00 0.36 0.09 0.02 0.99 0.00 0.01 <.00 0.01 <.00 0.01 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 <.00 0.05 0.05	01* 01* 15 01* 15 101* 15 101* 10*	Intercept KSC1 KSC2 KSC4 KSC5 KSC6 KSC7 KSC8 KSC9 KSC10 KSC12 KSC13 KSC14 KSC15 KSC16 KSC16 KSC17 KSC18 KSC19 KSC20 KSC20 KSC21 KSC22 KSC22 KSC24 KSC25	-2.1815749 -0.000313 1.78149e-5 0.00027587 8.49516e-7 5.77884e-5 5.77884e-5 5.0001272 -0.0001272 -0.0001137 -0.0001276 -0.0001756 -0.00014664 -0.0003901 0.00026367 -6.3618e-5 -6.3618e-5 -0.0001233 0.00010687 -4.432e-5 -0.0001355 -0.0001355 -0.0001355 -0.0001355 -0.0001355 -0.0001355 -0.0001355 -0.0001355 -0.0001355	0.0070177 1.3675e-5 2.0744e-5 2.211e-5 3.3262e-5 3.2186e-5 1.953e-5 2.6977e-5 0.0000296 0.0000296 0.0000299 0.0000239 0.0000239 0.0000239 0.0000239 0.0000239 2.92251e-5 0.000041 0.0000195 2.9426e-5 2.1644e-5 2.8635e-5 2.2164e-5 1.8081e-5 0.000014	96638 37.73 225.14 0.65 68.79 0.00 8.76 22.25 14.76 42.51 53.04 32.08 266.52 109.03 4.06 10.64 17.56 25.13 8.83 2.40 37.53 76.98 0.32 654.30	<.0001* <.0001* 0.4204 <.0001* 0.9789 0.0031* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* 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KSC26 KSC27 KSC28 KSC29 KSC30 KSC31 KSC32 KSC34	3.38151e-5 -0.0002378 -0.0002734 0.0001179 7.25245e-5 1.53689e-5 -0.0004165 0.00007163	1.6188e-5 3.1234e-5	3.24 119.77 235.69 31.26 10.97 0.90 177.84 8.97	0.0718 <.0001* <.0001* 0.0009* 0.3424 <.0001* 0.0027*	KSC26 KSC27 KSC28 KSC29 KSC30 KSC31 KSC32 KSC34	-0.0003174 -0.0002114 0.00010581 0.00012834 2.99252e-5 -0.0003957	0.0000178 2.083e-5 2.1866e-5 5 1.6163e-5	4.06 211.09 140.94 25.80 34.45 3.43 163.00 0.16	0.04 <.00 <.00 <.00 0.06 <.00 0.68	01* 01* 01* 01* 01* 01* 01*	KSC26 KSC27 KSC28 KSC29 KSC30 KSC31 KSC32 KSC34	6.51367e-5 -0.0002113 -0.0002695 0.00011056 0.00010496 0.00004575 -0.0004867 1.83589e-5	2.1913e-5 0.0000179 0.0000213 2.2135e-5 0.0000163	11.75 92.94 226.45 26.96 22.48 7.87 240.62 0.58	0.0006* <.0001* <.0001* <.0001* <.0001* 0.0050* <.0001* 0.4455

	~		bin.LM17			<u> </u>	stic Fit fo	r bin.L	M18			0	tic Fit for	bin.LM	19
	/lodel Test					/lodel Te						Model Tes			
Model	-LogLikeli		OF ChiSquare			-LogLike			-	Prob>ChiSq		-LogLikeli		•	re Prob>ChiSo
Difference Full Reduced		80.00	31 12775.81	<.0001*	Difference Full Reduced	926	85.453 69.756 55.209	31 12	370.91	<.0001*	Difference Full Reduced	1001	)58.44  40.26  98.71	31 12116.	89 <.0001*
RSquare (U AICc BIC Observatio		0.063 18906 18940 Vgts) 32304	4 5		RSquare (l AICc BIC Observatio	J) ons (or Sum	0.06 1854 1857 Wats) 3230	04 45			RSquare (I AICc BIC Observatio	U) ons (or Sum V	0.057 20034 20068 Wats) 32304	5 6	
Fit Detai					Fit Detai						Fit Deta			-	
Lack Of	Fit				Lack Of	Fit					Lack Of	Fit			
Source	DF -	LogLikelihoo	d ChiSquare	í i	Source	DF	-LogLikeliho	od ChiSo	uare		Source		-LogLikelihoo	d ChiSquar	e
Lack Of Fit		94484.83			Lack Of Fit		92654.5		5309		Lack Of Fit		100129.1	•	
Saturated	322701	15.24	<sup>9</sup> Prob>ChiSq		Saturated	322701	15.2	49 Prob	ChiSa		Saturated	322701	11.0	9 Prob>Ch	iSa
Fitted	31	94500.08			Fitted	31	92669.7		.0000		Fitted	31	100140.2		
Paramet	ter Estimat	tes			Paramet	ter Estim	ates				Parame	ter Estima	ites		
Term	Estimate	Std Error	ChiSquare Pro	b>ChiSq	Term	Estimate	e Std Error	ChiSqua	e Pro	b>ChiSq	Term	Estimate	Std Error	ChiSquare	Prob>ChiSq
	-2.0955363	0.0068176	94478	<.0001*		-2.1338963	0.0068842	9608		<.0001*		-2.0202094		93614	<.0001*
KSC1 KSC2	-0.0001032	0.0000135	58.44	<.0001*	KSC1	-0.000095		49.2		<.0001*	KSC1		0.0000133	3.22	0.0729
KSC2 KSC4	-0.0003458 -1.3767e-5	2.017e-5 2.1863e-5	293.90 0.40	<.0001* 0.5289	KSC2 KSC4	-0.0003449 -3.616e-5		291.5 2.7		<.0001* 0.0984	KSC2 KSC4		1.9979e-5	302.91 6.39	<.0001* 0.0115*
	0.00031937	0.0000326	96.01	<.0001*	KSC4 KSC5	0.00031784		2.7 95.3		<.0001*	KSC4 KSC5	5.47974e-5 0.00028947		80.63	<.0001*
KSC6	-1.0178e-5	3.156e-5	0.10	0.7471	KSC6	1.09423e-		0.1		0.7295	KSC6	-0.0000377		1.47	0.2255
	0.00006996	0.000019	13.55	0.0002*	KSC7	1.06486e-		0.3		0.5744	KSC7	0.00003499		3.50	0.0614
KSC8	-0.0001972	2.6423e-5	55.72	<.0001*	KSC8	-0.0001904		51.9		<.0001*	KSC8	-0.0001816		47.62	<.0001*
	0.00005527	0.000029	3.63	0.0566	KSC9	7.86233e-		7.3	2	0.0068*	KSC9	-1.5024e-5		0.28	0.5960
KSC10	-0.0002187	1.9631e-5	124.15	<.0001*	KSC10	-0.0002274		133.9		<.0001*	KSC10	-0.0002168		124.33	<.0001*
KSC11	-0.0001405	0.0000237	35.14	<.0001*	KSC11	-0.0001054		19.7		<.0001*	KSC11	-0.0001459		38.83	<.0001*
	0.00014707	2.5782e-5	32.54	<.0001*	KSC12	8.57259e-5	5 2.5731e-5	11.1	0	0.0009*	KSC12	0.0001212		22.98	<.0001*
KSC13	-0.0005335	2.3737e-5	505.16	<.0001*	KSC13	-0.0005447		517.6	4	<.0001*	KSC13	-0.0003937	2.2913e-5	295.20	<.0001*
KSC14	0.00023469	2.4951e-5	88.48	<.0001*	KSC14	0.00024404	2.5117e-5	94.4	0	<.0001*	KSC14	0.00024655	2.4526e-5	101.05	<.0001*
KSC15	-0.0001053	4.0179e-5	6.86	0.0088*	KSC15	-0.0001072	2 4.0183e-5	7.1	2	0.0076*	KSC15	-4.1511e-5	3.9675e-5	1.09	0.2954
KSC16	1.84856e-5	1.9627e-5	0.89	0.3463	KSC16	5.33845e-5		7.2		0.0073*	KSC16	-2.5154e-5		1.75	0.1865
KSC17	-9.5354e-5	2.8881e-5	10.90	0.0010*	KSC17	-0.0001053		13.2		0.0003*	KSC17		2.8737e-5	0.15	0.6948
KSC18	7.54802e-7		0.00	0.9709	KSC18	1.42716e-		0.4		0.4904	KSC18	-3.3424e-5		2.69	0.1010
KSC19	0.00013567	2.7648e-5	24.08	<.0001*	KSC19	0.00010704		14.9		0.0001*	KSC19	0.00009047		11.49	0.0007*
KSC20	-3.1339e-5	2.8356e-5	1.22	0.2691	KSC20	-1.9073e-5		0.4		0.5040	KSC20	-7.9281e-5		8.28	0.0040*
KSC21	-0.0001227	2.1955e-5	31.22	<.0001*	KSC21	-0.0001418		41.7		<.0001*	KSC21	-0.0001085		25.69	<.0001*
KSC22	-0.0001667	2.1144e-5	62.16	<.0001*	KSC22	-0.0001605		57.3		<.0001*	KSC22	-0.0001988		93.23	<.0001*
KSC24 KSC25	-2.0416e-5 -0.0002426	1.7864e-5 1.3937e-5	1.31 303.03	0.2531 <.0001*	KSC24	-4.2272e-5		5.5		0.0186*	KSC24	-2.5154e-5		2.10	0.1477
KSC25 KSC26	3.79422e-5	1.8845e-5	4.05	0.0441*	KSC25 KSC26	2.25543e-5		160.4 1.4		<.0001* 0.2340	KSC25 KSC26	-0.0002888 5.15743e-5		448.67 7.84	<.0001* 0.0051*
KSC20 KSC27	-0.0002802	2.1727e-5	166.26	<.0001*	KSC20	-0.0002568		137.7		<.0001*	KSC20 KSC27	-0.0002138		100.91	<.0001*
KSC28	-0.0001614	1.7832e-5	81.95	<.0001*	KSC28	-9.6762e-5		28.4		<.0001*	KSC28	-0.0001929	1.7418e-5	122.65	<.0001*
	0.00010395	2.0669e-5	25.29	<.0001*	KSC29	0.00011907		32.3		<.0001*	KSC20	0.00016615		65.92	<.0001*
KSC30	6.78343e-5	2.1766e-5	9.71	0.0018*		0.00004164		3.6		0.0575	KSC30	3.28772e-5		2.40	0.1217
KSC31	4.82132e-5	1.6163e-5	8.90	0.0029*	KSC31	3.22975e-5		3.9		0.0473*	KSC31	8.89163e-5		31.04	<.0001*
KSC32	-0.0003714	3.0876e-5	144.72	<.0001*	KSC32	-0.0003673		140.0		<.0001*	KSC32	-0.0004734		239.27	<.0001*
KSC34	-2.1165e-6		0.01	0.9279	KSC34		5 2.3629e-5	0.0		0.9054	KSC34		2.3081e-5	1.23	0.2676

Appendix F: Nominal L	ogistic Re	egression Mo	del to Pred	ict Storms	(cont.)

	al Logist <mark>Aodel Test</mark>		bin.LM2	)	Nomin Whole N	<u> </u>	stic Fit fo st	r bii	n.LM21	[		al Logis <b>Aodel Tes</b>	tic Fit for t	bin.LM	22
Model	-LogLikelih		DF ChiSquare	Prob>ChiSa		-LogLike		DF	ChiSquare	Prob>ChiSq		-LogLikeli		DF ChiSqu	are Prob>ChiSo
Difference Full Reduced	-	20.83 10.62	31 12841.66	•	Difference Full Reduced	6 105	133.65 316.05 449.70	31	12267.3		Difference Full Reduced	62 1054		31 12518	
RSquare (l AICc BIC Observatio		0.059 20408 20442 Vgts) 32304	5 7		RSquare (l AICc BIC Observatic	J) ons (or Sum	0.05 2106 2110 Wgts) 3230	96 38			RSquare (l AICc BIC Observatio		0.056 21087 21121 Wgts) 32304	7 9	
Fit Detai	ils				Fit Deta	ils					Fit Deta	ils			
Lack Of	Fit				Lack Of	Fit					Lack Of	Fit			
Source	DF -	LogLikelihoo	d ChiSquare		Source	DF	-LogLikeliho	od (	ChiSquare	Ĩ.	Source	DF	-LogLikelihoo	d ChiSqua	re
Lack Of Fit	322670	101996.7	203993.5		Lack Of Fit		105300	.80	210601.6		Lack Of Fit	322670	105389.8	210779	.6
Saturated	322701	13.8	B6 Prob>ChiS	9	Saturated	322701			Prob>ChiSo	4	Saturated	322701	16.6		niSq
Fitted	31	102010.6	52 1.0000		Fitted	31	105316	.05	1.0000		Fitted	31	105406.4	1.00	000
Paramet	ter Estimat	tes			Paramet	ter Estim	ates				Paramet	ter Estima	tes		
Term	Estimate		ChiSquare Pr		Term		e Std Error				Term	Estimate	Std Error	ChiSquare	Prob>ChiSq
	-1.9807585	0.0065604	91160	<.0001*		-1.939287			90502	<.0001*		-1.9218817		88682	<.0001*
KSC1 KSC2	-4.7188e-5 -0.0003353	1.3324e-5 1.9965e-5	12.54 282.01	0.0004* <.0001*	KSC1 KSC2	-3.6234e-			7.51 226.83	0.0061* <.0001*	KSC1 KSC2	-0.0000592		20.05 286.41	<.0001*
KSC4	0.0000527	0.0000218	5.84	0.0156*	KSC4	0.0000298			7.85	0.0051*	KSC2 KSC4	-0.0003318 -4.4943e-5		4.37	<.0001* 0.0365*
	0.00032087	0.0000325	97.53	<.0001*	KSC5	0.0003268			102.48	<.0001*	KSC5	0.00029608		86.32	<.0001*
KSC6	-3.1822e-5	3.127e-5	1.04	0.3088	KSC6	-6.4934e-			4.40	0.0360*	KSC6	-3.0965e-6		0.01	0.9201
KSC7	3.53763e-5	1.874e-5	3.56	0.0591	KSC7	0.0000516			7.68	0.0056*	KSC7	-6.1361e-5		11.17	0.0008*
KSC8	-0.0001911	0.0000265	51.97	<.0001*	KSC8	-0.000196			56.58	<.0001*	KSC8	-0.0002113		66.14	<.0001*
KSC9	1.68983e-5	2.8463e-5	0.35	0.5527	KSC9	3.63116e-			1.68	0.1950	KSC9	6.26887e-5		4.94	0.0262*
KSC10	-0.000241	1.9546e-5	152.04	<.0001*	KSC10	-0.000267			187.91	<.0001*	KSC10	-0.0002389		152.11	<.0001*
KSC11	-0.0001621	0.0000235	47.55	<.0001*	KSC11	-0.000151			41.87	<.0001*	KSC11	-9.1373e-5		15.52	<.0001*
KSC12	0.00013208	2.5566e-5	26.69	<.0001*	KSC12	0.0001629	9 2.537e-5		41.28	<.0001*	KSC12	0.00010416		16.99	<.0001*
KSC13	-0.0004693	0.0000231	412.50	<.0001*	KSC13	-0.000444			380.72	<.0001*	KSC13	-0.0004546		391.10	<.0001*
KSC14	0.00027982	0.0000248	127.36	<.0001*	KSC14	0.0002258	5 2.4213e-5		87.01	<.0001*	KSC14	0.00017133	2.424e-5	49.96	<.0001*
KSC15	-0.0001091	3.9767e-5	7.53	0.0061*	KSC15	-7.9961e-			4.13	0.0422*	KSC15	-0.0001032	0.0000393	6.89	0.0086*
KSC16	3.53782e-6	1.9285e-5	0.03	0.8544	KSC16	4.43512e-			0.05	0.8153	KSC16	6.56858e-5		11.45	0.0007*
KSC17	4.0224e-6	2.8758e-5	0.02	0.8888	KSC17	4.51921e-			2.51	0.1135	KSC17		2.8514e-5	2.19	0.1393
KSC18	-0.0000705	2.0324e-5	12.03	0.0005*	KSC18	-8.1629e-			16.38	<.0001*	KSC18	-6.4946e-5		10.44	0.0012*
KSC19	9.45567e-5	2.7131e-5	12.15	0.0005*	KSC19	9.29151e-			12.26	0.0005*	KSC19	0.00013004		23.23	<.0001*
KSC20	-7.6921e-5	2.7921e-5	7.59	0.0059*	KSC20	-0.000109			15.97	<.0001*	KSC20	-5.9739e-6		0.05	0.8306
KSC21	-0.0001062		24.28	<.0001*	KSC21	-8.2379e-			14.91	0.0001*	KSC21	-0.0001512		49.83	<.0001*
KSC22 KSC24	-0.0001593	0.0000206	59.76	<.0001*	KSC22	-0.00018			84.44	<.0001*	KSC22	-0.0001623		63.02	<.0001*
KSC24 KSC25	-3.0781e-5 -0.0003013	1.7373e-5 1.3645e-5	3.14 487.52	0.0764 <.0001*	KSC24 KSC25	-0.000020			1.48 538.67	0.2234 <.0001*	KSC24	-2.5842e-5		2.21	0.1375
KSC25 KSC26	0.00003013	1.3645e-5 1.864e-5	487.52	<.0001^ 0.0005*	KSC25 KSC26	5.81233e-			10.02	0.0015*	KSC25 KSC26	-0.0002099 5.97911e-5		236.43 10.42	<.0001* 0.0012*
KSC20	-0.0002698	0.0000215	157.39	<.0001*	KSC20	-0.000201			91.32	<.00015	KSC20 KSC27	-0.0002369		123.71	<.00012*
KSC28	-0.0001361	1.7543e-5	60.21	<.0001*	KSC28	-0.000162			88.44	<.0001*	KSC27 KSC28	-0.0002369		33.73	<.0001*
	0.00015437	2.0417e-5	57.17	<.0001*	KSC29	0.0001619			64.08	<.0001*	KSC29	0.00011645	2.024e-5	33.10	<.0001*
KSC30	-8.4438e-6	2.1415e-5	0.16	0.6934	KSC30	-2.2962e-			1.19	0.2757	KSC30	-4.5759e-6		0.05	0.8290
KSC31	6.75851e-5	1.5933e-5	17.99	<.0001*	KSC31	0.000102			42.05	<.0001*	KSC31	6.77978e-5		18.32	<.0001*
KSC32	-0.0004397		206.78	<.0001*	KSC32	-0.000497			267.05	<.0001*	KSC32	-0.0003911		166.07	<.0001*
KSC34	5.4101e-5	2.318e-5	5.45	0.0196*	KSC34	0.0000643			7.82	0.0052*	KSC34		2.2953e-5	0.81	0.3669

Whole N	/lodel Test				Whole N	/lodel Tes	t				Whole N	lodel Tes	t		
Model	-LogLikelił	nood	DF ChiSqu	are Prob>ChiS	q Model	-LogLikeli	ihood	DF (	ChiSquare	Prob>ChiSq	Model	-LogLikel	ihood	DF ChiSqua	re Prob>ChiS
Difference Full Reduced	590 11048 11638		31 1181	2.02 <.0001	* Difference Full Reduced	1138	)42.32 336.02 378.34	31	10084.65	<.0001*	Difference Full Reduced	972	431.20 217.10 548.30	31 12862.	41 <.0001
RSquare (U AICc BIC Observatio	J) ons (or Sum V	0.050 22103 22137 Vgts) 32304	31 73		RSquare (l AICc BIC Observatio	J) ons (or Sum '	0.042 22773 22807 Wgts) 32304	36 78			RSquare (L AICc BIC Observatio	J) ns (or Sum	0.062 19449 19484 Wgts) 32304	18 10	
Fit Detai	ils				Fit Detai	ils					Fit Detai	ls			
Lack Of	Fit				Lack Of	Fit					Lack Of	Fit			
Source	DF -	LogLikeliho			Source		-LogLikelihoo		hiSquare		Source		-LogLikelihoo	•	
Lack Of Fit		110468.		6.2	Lack Of Fit		113827.		227655.4		Lack Of Fit		97206.00		2
Saturated	322701	15.		•	Saturated	322701			rob>ChiSq		Saturated	322701	11.0		•
Fitted	31	110483.	35 1.0	000	Fitted	31	113836.0	02	1.0000		Fitted	31	97217.09	97 1.00	00
Paramet	ter Estimat	tes			Paramet	ter Estima	tes				Paramet	er Estima	ites		
Term	Estimate		•	Prob>ChiSq	Term	Estimate			quare Prol	•	Term		Std Error	•	•
KSC1 KSC2 KSC4 KSC5 KSC6 KSC7 KSC8 KSC9 KSC10 KSC11 KSC11 KSC11 KSC12 KSC13 KSC14 KSC15 KSC16 KSC17	-0.0001177 -0.0001905 2.96937e-5 -0.0002607 -6.4118e-5 8.09487e-5 -0.0003872 0.00017778 -3.7327e-5 4.62771e-5 2.71267e-5	0.006292 0.000013 0.0000194 2.1368e-5 3.1582e-5 0.0000304 1.8152e-5 0.0000258 2.763e-5 1.9288e-5 2.828e-5 2.2427e-5 2.3864e-5 3.8985e-5 3.9015e-5 2.8425e-5	87784 10.06 219.16 2.77 72.51 2.97 42.02 54.52 1.15 182.70 7.83 10.55 298.11 55.50 0.92 5.92 5.92	<.0001* 0.0015* 0.0959 0.0001* 0.0848 0.0001* 0.2825 0.0001* 0.0012* 0.0012* 0.0012* 0.001* 0.3833 0.0149* 0.3399	KSC17	0.00027011 4.42073e-5 -0.0001732 -0.0001855 8.12231e-5 -0.0002417 -0.0000819 -6.7132e-6 -0.0003977 0.00013871 4.63957e-5 3.89769e-5	0.0000128 1.9155e-5 0.0000211 3.1128e-5 0.00003 0.0000179 2.5588e-5 2.7316e-5 1.8961e-5 2.4288e-5 0.0000224 0.0000224 0.0000236 3.8572e-5 1.9271e-5 2.8239e-5	2 1 3	9302 1.82 225.04 2.70 75.30 2.17 93.67 52.53 8.84 62.52 13.21 0.08 14.87 34.55 1.45 76.30 1.91	<.0001* 0.1779 <.0001* 0.1006 <.0001* 0.1406 <.0001* 0.0029* <.0001* 0.0029* <.0001* 0.7822 <.0001* 0.7822 <.0001* 0.2290 <.0001* 0.2290	KSC6 KSC7 KSC8 KSC10 KSC11 KSC12 KSC13 KSC14 KSC15 KSC16 KSC16 KSC17	-0.000958 -0.0001004 -0.0001526 0.00016353 -0.0004216 0.00027243 -0.0001057 -4.4851e-5 -6.2624e-5	1.333e-5 2.0235e-5 2.1823e-5 3.2249e-5 3.1489e-5 1.8955e-5 0.0000267 2.8941e-5 1.9573e-5 2.5772e-5 2.3789e-5 2.4886e-5 4.0346e-5 0.0000195 2.9181e-5	93474 15.23 228.03 4.69 28.27 1.06 46.37 10.96 26.31 41.15 40.89 324.14 119.84 6.86 5.29 4.61	<.0001* <.0001* 0.0304* <.0001* 0.3040 0.8060 <.0001* 0.0009* <.0001* <.0001* <.0001* <.0001* 0.0088* 0.0214*
KSC20 KSC21 KSC22 KSC24 KSC25 KSC26 KSC26 KSC27 KSC28 KSC29 KSC29 KSC30	-0.0001175 0.00013654 -0.0000436 -0.0001832 0.0001296 6.24621e-5 -0.0002135 -6.0277e-5 0.00013768 -0.00012595 -0.00012595 -0.0004406 2.8139e-5	1.9869e-5 2.6316e-5 2.7284e-5 2.1079e-5 2.0016e-5 1.7013e-5 1.3439e-5 1.3439e-5 1.3439e-5 2.1121e-5 2.0013e-5 0.000021 1.5778e-5 0.0000302 2.274e-5	34.95 26.92 2.55 74.22 83.78 0.58 376.73 11.70 102.18 12.13 47.33 1.84 63.73 212.81 1.53	<.0001* <.0001* 0.1101 <.0001* <.0001* 0.4462 <.0001* 0.0006* <.0001* 0.0005* <.0001* 0.1747 <.0001* <.0001*	KSC18 KSC19 KSC20 KSC21 KSC22 KSC24 KSC25 KSC26 KSC27 KSC28 KSC29 KSC30 KSC31 KSC32 KSC32	-0.0001556 3.33431e-5 4.28691e-6 -0.0001323 -0.0001516 4.83367e-6 -0.0002672 4.92422e-6 -0.0001825 -5.6719e-5 0.00008802 2.62062e-5 0.00007922 -0.0003705 2.81251e-5	2.5876e-5 2.7222e-5 1.9651e-5 1.6784e-5 0.0000134 1.8064e-5 0.000021 1.7213e-5 1.9856e-5 2.0885e-5 1.5737e-5	3	63.40 1.66 0.02 40.54 59.48 0.08 97.67 0.07 75.55 10.86 16.31 1.57 29.71 52.68 1.57	<.0001* 0.1976 0.8749 <.0001* 0.7734 <.0001* 0.7852 <.0001* 0.0010* <.0001* 0.2096 <.0001* 0.2096 <.0001*	KSC20 KSC21 KSC22 KSC24 KSC25 KSC26 KSC27 KSC28	4.25664e-5 0.0007702 -0.000252 -0.0001366 -0.0002705 0.0003223 -0.0003864 9.73566e-5 -0.0001832 -0.0002447 -0.0002447 -0.0002447 -0.00015783 7.67661e-5 9.54666e-5 9.54666e-5 -0.0005094 1.30087e-5	2.7085e-5 0.0000282 2.182e-5 2.1064e-5 0.0000177 1.3819e-5 1.8915e-5 2.1686e-5 1.7641e-5 2.0959e-5 2.1653e-5 1.6141e-5	4.16 8.09 0.80 39.21 164.87 3.31 782.10 26.49 71.33 192.44 56.71 12.57 34.98 268.33 0.30	0.0415* 0.0045* 0.3717 <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* 0.0004* <.0001*

	al Logist <b>Aodel Test</b>		bin.LM2	7		al Logis Model Te	stic Fit for	r bin	.LM28			al Logis <b>Aodel Tes</b>	tic Fit for	bin.LM2	29
<b>Model</b> Difference Full Reduced	-LogLikelih 584 10962 11547	46.66 26.77	31 11693.3	e Prob>ChiSo 2 <.0001 <sup>3</sup>	<b>i Model</b> Difference Full Reduced	111	lihood 599.46 830.35 429.81	<b>DF</b> (	ChiSquare 11198.91	Prob>ChiS <.0001	<b>q Model</b> * Difference Full Reduced	1151		<b>DF ChiSqua</b> 31 10655.	re Prob>ChiSq 77 <.0001*
RSquare (I AICc BIC Observatic	J) ons (or Sum V	0.050 21931 21965 Vgts) 32304	8 9		RSquare (I AICc BIC Observatic	U) ons (or Sum	0.04 2237 2240 Wgts) 3230	25 67			RSquare (L AICc BIC Observatio	J) ons (or Sum V	0.044 23038 23072 Wgts) 32304	5 7	
Fit Deta	ils				Fit Deta	ils					Fit Detai	ils			
Lack Of	Fit				Lack Of	Fit					Lack Of	Fit			
Source Lack Of Fit	DF -	LogLikelihoo 109614.2	d ChiSquare		<b>Source</b> Lack Of Fit		-LogLikeliho 111816		hiSquare 223633		<b>Source</b> Lack Of Fit		-LogLikelihoo 115150.8		
Saturated	322701	12.4			Saturated	322701			rob>ChiSq	i.	Saturated	322701	9.7		•
Fitted	31	109626.7	7 1.000	)	Fitted	31	111830.	.30	1.0000		Fitted	31	115160.5	0 1.000	0
Paramet Term	ter Estimat		ChiSquare P		Parame <sup>®</sup> Term	ter Estim	ates e Std Error		_		Paramet Term	ter Estima Estimate		ChiSquare	
KSC1 KSC2 KSC4 KSC5 KSC6 KSC7 KSC8 KSC9 KSC10 KSC12 KSC12 KSC13 KSC14 KSC15 KSC16 KSC16 KSC17 KSC16 KSC17 KSC18 KSC19 KSC20 KSC21 KSC22 KSC22 KSC22 KSC22	7.16552e-5 -0.000388 0.0001963 -4.1954e-5	1.2961e-5 1.9638e-5 2.1245e-5 3.0745e-5 3.0745e-5 2.6086e-5 2.7985e-5 1.9077e-5 0.0000232 0.0000246 2.2627e-5 2.3747e-5 2.3747e-5 2.0132e-5 0.0000189 0.0000285 2.0141e-5 2.6148e-5 2.7687e-5 2.1133e-5 2.0264e-5 0.000017 1.3435e-5	5.79 205.60 4.73 41.72 23.36 2.22 50.48 0.90 76.52 99.83 8.49 294.09 68.33 1.15 0.02 0.48 0.91 23.38 2.80 25.46 195.02 2.46 954.85	0.0161* <.0001* 0.0297* <.0001* 0.1358 <.0001* 0.3438 <.0001* 0.0036* <.0001* 0.2837 0.8809 0.4898 0.3400 <.0001* 0.0942 <.0001* 0.0001*	KSC1 KSC2 KSC4 KSC5 KSC6 KSC7 KSC8 KSC9 KSC10 KSC11 KSC12 KSC14 KSC15 KSC16 KSC16 KSC16 KSC16 KSC17 KSC18 KSC19 KSC20 KSC21 KSC22 KSC22 KSC22 KSC22	-1.1466e- -0.0002619 3.74516e- 9.59519e- 0.00016244 7.02778e- -0.000138 1.80881e- -0.000138 1.80881e- -0.000138 4.86955e- -0.0001893 -0.0001893 -0.00016410 -7.1575e- -0.00016410 -7.1575e- -0.0001298 -0.000228 3.00362e- -0.0004697	0.0000195           2.1077e-5           3.1238e-5           3.1238e-5           3.0555e-5           1.8457e-5           2.5914e-5           2.7617e-5           1.8923e-5           2.288e-5           2.288e-5           2.2573e-5           2.2573e-5           2.2573e-5           2.2573e-5           2.356e-5           0.0000388           5           2.8465e-5           2.6135e-5           2.765e-5           2.1047e-5           2.1047e-5           2.1047e-5           2.1047e-5           2.1047e-5           2.1047e-5           2.0027e-5           1.6823e-5	3	0.79 80.48 3.16 9.44 28.28 14.50 28.62 0.43 85.58 75.29 4.01 668.45 64.56 15.13 5.28 7.36 0.21 39.45 6.70 38.05 30.23 3.19 220.0	0.3736 <.0001* 0.0756 0.0021* <.0001* 0.001* 0.5125 <.0001* <.0001* <.0001* <.0001* <.0001* 0.0454* <.0001* 0.001* 0.001* 0.001* 0.001* <.0001* 0.001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* 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13.45 1.8.44 8.75 15.61 126.56 0.04 947.79	0.0214* <.0001* 0.0102* <.0001* 0.1401 <.0001* 0.0551 <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* 0.0983 0.0801 0.0017* 0.0002* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* 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KSC26 KSC27 KSC28 KSC29 KSC30 KSC31 KSC32 KSC34	-0.0004132 -0.00010135 -0.0001621 0.0001621 0.00012916 -1.6492e-6 9.65467e-5 -0.0004485 4.30948e-5	1.8359e-5 2.088e-5 1.7154e-5 2.0113e-5 2.0823e-5 1.5617e-5 3.0017e-5	30.48 45.77 89.27 41.24 0.01 38.22 223.25 3.55	<.0001* <.0001* <.0001* <.0001* 0.9369 <.0001* <.0001* 0.0596	KSC26 KSC27 KSC28 KSC29 KSC30 KSC31 KSC32 KSC34	8.0525e- -0.0001179 -6.4055e- 0.00014429 -5.1441e- 0.00008854 -0.000489 9.61777e-	5 1.8282e-5 9 2.0873e-5 5 1.7219e-5 9 2.014e-5 5 0.0000208 4 1.556e-5 9 3.0047e-5	2	19.40 31.91 13.84 51.33 6.12 32.38 264.83 17.23	<.0001* <.0001* 0.0002* <.0001* 0.0134* <.0001* <.0001*	KSC26 KSC27 KSC28 KSC29 KSC30	0.00007754 -0.0001238 -6.0577e-5 0.00014989 -3.9941e-5 0.00012715 -0.0004072	0.0000181 2.0645e-5 1.7021e-5 0.0000197 2.0542e-5 1.5483e-5	18.35 35.96 12.67 57.95 3.78 67.45 189.80 0.01	<.0001* <.0001* 0.0004* <.0001* 0.0519 <.0001* <.0001* 0.9138

Appendix F: Nominal L	ogistic I	Regression	Model to	Predict S	storms (cont.)

			bin.LM30	)		<u> </u>	stic Fit fo	or bi	in.LM	31			-	tic Fit for	bin.LM	32
	/lodel Test		l			Aodel Te							Model Tes			
Model	-LogLikelih		DF ChiSquare	•		-LogLike			•		rob>ChiSq		-LogLikeli		•	are Prob>Chi
Difference Full Reduced	554 11216 11771	57.82	31 11089.83	<.0001*	Difference Full Reduced	117	868.53 536.46 404.99	31	9737.0	J62	<.0001*	Difference Full Reduced	1171	55.64 95.14 50.78	31 1031	1.27 <.000
RSquare (I AICc BIC Observatic		0.047 22440 22474 Vgts) 32304	0 2		RSquare (l AICc BIC Observatio		0.03 2357 2354 Wgts) 3230	137 479				RSquare (l AICc BIC Observatic	U) ons (or Sum V	0.042 23445 23479 Wats) 32304	4 6	
Fit Deta					Fit Detai							Fit Deta				
Lack Of	Fit				Lack Of	Fit						Lack Of	Fit			
Source	DF -	LogLikelihoo	d ChiSquare		Source	DF	-LogLikeliho	bod	ChiSquar	re		Source	DF	-LogLikelihoo	d ChiSqua	are
Lack Of Fit	322670	112153.9	224307.9		Lack Of Fit	322670	117523	3.99	23504	48		Lack Of Fit	t 322670	117185.4	14 23437	0.9
Saturated	322701	13.8	B6 Prob > ChiS	9	Saturated	322701	12	2.48	Prob>Ch	hiSq		Saturated	322701	9.	70 Prob>C	hiSq
Fitted	31	112167.8	1.0000		Fitted	31	117536		1.00			Fitted	31	117195.		000
Paramet	ter Estimat	tes			Paramet	ter Estima	ates					Paramet	ter Estima	tes		
Term	Estimate	Std Error	ChiSquare Pr	ob>ChiSq	Term	Estimate	e Std Error	Chi	iSquare	Prob>	ChiSq	Term	Estimate	Std Error	ChiSquare	Prob>ChiSq
	-1.8700627	0.0062419	89758	<.0001*		-1.8074748			88118		.0001*		-1.8064553		87557	<.0001*
KSC1	0.00000479	1.2926e-5	0.14	0.7110	KSC1	-4.606e-5			13.44		.0002*	KSC1	-2.4626e-5		3.78	0.0518
KSC2 KSC4	-0.0002848 -4.4206e-7	1.9485e-5	213.60 0.00	<.0001* 0.9832	KSC2 KSC4	-0.0002375			156.14 3.10		.0001*	KSC2	-0.0002397		157.50	<.0001*
KSC4 KSC5	0.00014191	0.000021 3.1323e-5	20.53	<.0001*	KSC4 KSC5	3.63715e-5 0.00016229			28.12		.0784 .0001*	KSC4 KSC5	0.00003922 0.00014968		3.57 23.65	0.0588 <.0001*
KSC6	0.00015234	3.0444e-5	25.04	<.0001*	KSC6	0.00017375			33.93		.0001*	KSC6	0.00014908		26.89	<.0001*
KSC7	7.22986e-5	1.8378e-5	15.48	<.0001*	KSC7		5 0.0000178		7.32		.0068*	KSC7	-3.736e-5		4.34	0.0371*
KSC8	-0.0001102	2.5744e-5	18.31	<.0001*	KSC8	-0.0001179			21.61		.0001*	KSC8	-0.0001193		21.96	<.0001*
KSC9	9.96434e-6	2.7536e-5	0.13	0.7175	KSC9	1.96486e-			0.53		.4683	KSC9	5.12848e-6		0.04	0.8505
KSC10	-0.0002038	1.8964e-5	115.45	<.0001*	KSC10	-0.000226			145.22		.0001*	KSC10	-0.0002279		146.56	<.0001*
KSC11	-0.0002043	2.2938e-5	79.31	<.0001*	KSC11	-0.0001409			39.54		.0001*	KSC11	-0.0001514		45.20	<.0001*
KSC12	7.63314e-5	2.4372e-5	9.81	0.0017*	KSC12	4.68874e-			3.84		.0501	KSC12	5.00037e-5		4.32	0.0376*
KSC13	-0.0003941	2.2314e-5	311.92	<.0001*	KSC13	-0.0004268			370.35		.0001*	KSC13	-0.0004387		388.37	<.0001*
KSC14	0.0001404	2.3385e-5	36.04	<.0001*	KSC14	0.00012815			30.38		.0001*	KSC14	0.00012867		30.53	<.0001*
KSC15	-6.8449e-5	3.8623e-5	3.14	0.0764	KSC15	-4.7864e-	5 3.8041e-5		1.58	0.	.2083	KSC15	-5.7346e-5		2.25	0.1334
KSC16	6.86187e-6	1.8749e-5	0.13	0.7144	KSC16	0.0001293	3 0.000019		46.30		.0001*	KSC16	0.000115	1.9058e-5	36.41	<.0001*
KSC17	4.77772e-5		2.85	0.0914	KSC17	6.32066e-5			5.11		.0238*	KSC17	5.69773e-5	0.0000281	4.11	0.0427*
KSC18	-1.6543e-5	1.9872e-5	0.69	0.4051	KSC18	-9.8773e-			25.97		.0001*	KSC18	-0.0000433	1.9572e-5	4.89	0.0270*
KSC19	0.00014805	2.5853e-5	32.79	<.0001*	KSC19	8.74849e-5			11.76		.0006*	KSC19	0.00011453		19.81	<.0001*
KSC20		0.0000274	7.07	0.0078*	KSC20	-4.0453e-			2.24		.1345	KSC20	-6.0072e-5		4.87	0.0273*
KSC21	-0.0001037	2.0889e-5	24.66	<.0001*	KSC21	-8.1456e-			15.60		.0001*	KSC21	-0.0001034		24.91	<.0001*
KSC22	-0.0002462	1.9923e-5	152.77	<.0001*	KSC22	-0.0001977			102.99		.0001*	KSC22	-0.0002104		115.27	<.0001*
KSC24	0.00001245	1.676e-5	0.55	0.4576	KSC24	0.00002113			1.63		.2020	KSC24	1.71252e-5		1.07	0.3006
KSC25 KSC26	-0.000417 0.00007633	1.334e-5 1.8158e-5	977.30 17.67	<.0001* <.0001*	KSC25 KSC26	-0.0004043 1.90085e-0			934.94 0.01		.0001* .9158	KSC25	-0.0004179		995.97	<.0001*
KSC20 KSC27	-0.0001127	2.0723e-5	29.57	<.0001*	KSC20 KSC27	-0.0001469			50.14		.0001*	KSC26 KSC27	2.59274e-5 -9.0452e-5		2.05 19.13	0.1524 <.0001*
KSC28	-8.7564e-5	1.712e-5	26.16	<.0001*	KSC27	-0.0000025			0.02		.8837	KSC27 KSC28		0.0000171	2.01	0.1564
KSC20	0.00009983	0.0000199	25.17	<.0001*	KSC28	0.00011859			36.15		.0001*	KSC20	6.94515e-5		12.36	0.0004*
KSC30	-5.1658e-5	2.0687e-5	6.24	0.0125*	KSC30	-2.9421e-5			2.01		.1567	KSC30	-5.2854e-5		6.51	0.0004*
KSC31	0.00009498	1.5518e-5	37.46	<.0001*	KSC30	0.00013363			75.20		.0001*	KSC30	0.00011631	1.5417e-5	56.92	<.0001*
KSC32	-0.0004402	2.9882e-5	217.04	<.0001*	KSC32	-0.0003779			162.38		.0001*	KSC32	-0.0003694		155.09	<.0001*
KSC34	0.00010604	0.000023	21.25	<.0001*	KSC34		5 2.2644e-5		15.31		.0001*	KSC34	0.00010776		22.25	<.0001*

Whole I	Model Tes	t						
Model	-LogLikel	ihood		DF	ChiSqu	are	Prob>C	niSq
Difference Full Reduced	1153	293.63 355.69 549.32		31	10587	7.26		)01*
RSquare ( AICc BIC Observatio	U) ons (or Sum '	Wgts)	0.043 23077 23111 32304	5 7				
Fit Deta								
Lack Of	Fit							
Source	DF	-LogLi	ikelihoo	d	ChiSqua	are		
Lack Of Fit	t 322670	1	115343.2	21	23068	5.4		
Saturated	322701		12.4	18	Prob>C	hiSq		
Fitted	31	1	115355.6	59		000		
Parame	ter Estima	tes						1
Term	Estimate	Std	Error	Ch	iSquare	Pro	b>ChiSq	
KSC2 KSC4 KSC5 KSC6 KSC7 KSC8 KSC10 KSC11 KSC12 KSC13 KSC14 KSC15 KSC16	-0.0002728 3.19979e-5 0.00017698 0.0001323 1.89539e-5 -0.0000399 3.87059e-6 -0.0001896 -0.0001896 -0.0001896 -0.0000462 0.000045311 -5.5273e-5 6.67245e-5	0.00 0.0 3.01 1.81 2.55 2.73 0.00 2.26 2.41 2.23 2.33 0.00 1.89	38e-5 00208 00031 45e-5 19e-5 26e-5 26e-5 00188 83e-5 66e-5 669e-5 47e-5 00384 31e-5		201.02 2.37 32.58 19.26 1.09 15.30 0.02 101.74 80.40 7.06 397.83 43.01 2.07 12.42		<.0001* 0.1240 <.0001* 0.2955 <.0001* 0.8874 <.0001* 0.0079* <.0001* 0.0001* 0.1501 0.0004*	
KSC17 KSC18 KSC20 KSC21 KSC22 KSC24 KSC25 KSC26 KSC27 KSC28 KSC28 KSC29 KSC30 KSC31 KSC31 KSC32 KSC34	7.98888e-5 -1.205e-5 0.00015403 -9.4563e-5 -0.0002166 -3.35509e-6 -0.0004005 6.39317e-5 -0.000108 -0.0000437 9.44113e-5 -6.3972e-5 9.00843e-5 -0.000424 0.00010816	1.97 2.58 2.72 2.07 1.97 0.00 1.32 1.8 2.00 1.70 1.98 2.06 0.00 2.96	00282 (69e-5 (57e-5) (74e-5) (75e-5) 00166 (36e-5) (14e-5) (64e-5) (37e-5) 00154 (51e-5) 00154		8.03 0.37 35.52 12.04 43.68 119.99 0.02 915.38 12.42 27.78 6.56 22.65 9.58 34.19 204.51 22.31		0.0046* 0.5422 <.0001* <.0001* <.0001* 0.0004* <.0001* 0.0004* <.0001* 0.0105* <.0001* <.0001* <.0001* <.0001*	

## Appendix G: Negative Binomial Regression Models to Predict Storm Cessation

odel La	unch			-	or=1	
	um Likelil	bood				
	ummary	lightering (	1			
Response Distributio	n	lightning.end Negative Bing	omial			
Estimation	Method	Maximum Lik				
Validation	Method	None				
Mean Moo		Log				
Dispersion Measure	Model Link	identity				
Vieasure Number of	f rows	27652				
Sum of Fre		9704				
LogLikeli	hood	50155.066				
Number of BIC	f Parameters	33 100613.08				
AICc		100613.08				
	d RSquare	0.04599				
Parame	ter Estima	tes for Ori	ginal Predic	tors		
			Wald	Prob >		
Term	Estimate	Std Error	ChiSquare	ChiSquare	Lower 95%	Upper 95%
KSC1	-6.096e-6		0.8398706	0.3594	-1.913e-5	6.941e-6
KSC2 KSC4	-4.934e-5		21.906621 1.5739139	<.0001* 0.2096	-0.00007 -3.336e-5	-2.868e-5 7.3209e-6
KSC5	-0.000015		13.777185	0.2090	-3.350e-5	-2.735e-5
KSC6	4.7168e-5		9.9265675	0.0016*	1.7826e-5	7.651e-5
KSC7	-5.402e-6	1.0413e-5	0.2691357	0.6039	-2.581e-5	0.000015
KSC8	-9.521e-6		0.6109303	0.4344	-3.34e-5	1.4354e-5
KSC9	-1.847e-5		2.135389	0.1439	-4.324e-5	6.3029e-6
KSC10 KSC11	1.8383e-5 -5.654e-5		3.2254041 25.245355	0.0725 <.0001*	-1.679e-6 -7.86e-5	3.8445e-5 -3.448e-5
KSC12	6.5581e-5		32.697204	<.0001*	0.0000431	-3.446e-5 8.806e-5
KSC13	-2.284e-5	1.0211e-5	5.0013879	0.0253*	-4.285e-5	-2.822e-6
(SC14	0.000027		5.2034433	0.0225*	3.8023e-6	5.0215e-5
KSC15	-5.562e-5		7.4702088	0.0063*	-9.55e-5	-1.573e-5
KSC16	0.0000267		8.4329064	0.0037*	8.6814e-6 -5.733e-5	4.4731e-5 3.9393e-6
KSC17 KSC18	-2.67e-5 7.1899e-6		0.4304276	0.0876 0.5118	-5./33e-5 -1.429e-5	3.9393e-b 2.8669e-5
KSC19	-2.073e-5		2.6012773	0.1068	-0.000046	4.462e-6
KSC20	-2.486e-5	1.4531e-5	2.9276345	0.0871	-5.334e-5	3.6173e-6
KSC21	7.3707e-6		0.4170292	0.5184	-0.000015	2.9741e-5
KSC22 KSC24	1.0883e-5 -0.000017		0.9238568 2.674267	0.3365 0.1020	-1.131e-5 -3.759e-5	3.3074e-5 3.3945e-6
KSC25	-2.382e-5		8.6879984	0.0032*	-3.966e-5	-7.98e-6
KSC26	-3.269e-5	9.131e-6	12.816003	0.0003*	-5.059e-5	-1.479e-5
(SC27	5.397e-5		23.951853	<.0001*	3.2356e-5	7.5584e-5
KSC28	2.4326e-5		6.987813	0.0082*	6.2896e-6	4.2362e-5
KSC29 KSC30	5.0743e-5 -3.719e-5		22.751952 11.999964	<.0001* 0.0005*	0.0000299 -5.824e-5	0.0000716 -1.615e-5
KSC30 KSC31	-3.719e-3		0.3901806	0.5322	-5.824e-5 -0.000021	-1.015e-5
KSC32	1.8849e-5		1.5147934	0.2184	-1.117e-5	4.8865e-5
KSC34	-3.115e-5	1.1386e-5	7.4843253	0.0062*	-5.347e-5	-8.833e-6
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odel Lai Maximu Model S Response Distributio Statibutio Sistemation Wean Moc Number of Dispersion Measure Unumber of Dispersion Maximum of Fre LogLikelit Sistematic Science Statematic Science Statematic	unch           um Likelif           ummary           n           Method           Method           lel Link           Model Link           rows           quencies           sood           Parameters           ettimate           -0.0003           -2.631e5           -1.189e5           -2.631e5           -1.189e5           -0.000033           -0.000033           0.01447           -3.6319e5           0.000033           0.000033           0.000033           0.000033           0.000014           -3.638e5           -0.000015           -1.546956	lightning.end Negative Binc Maximum Lik None Log Identity 37176 14276 76699012 33 153713.71 153464.18 0.024431 <b>Std Error</b> 7.3145e6 0.020431 <b>Std Error</b> 7.3145e5 1.6452e5 1.6	11 mial elihood ginal Predic Waid ChiSquare 1.8595049 11.541375 2.5570023 10.175108 1.2301768 0.8843567 0.1077417 3.4300791 8.4581905 2.455827 2.455827 9.800479 8.0380738 1.229747 9.8604122 0.0014817 2.384069 0.017288 0.8164287 1.4.903106	tors Prob > ChiSquare 0.1727 0.0007* 0.0520 0.1097 0.0540 0.03470 0.0440 0.03470 0.0440 0.036* 0.0036* 0.0034* 0.0	Lower 95% -2.431e5 -6.1665 -0.00004 -2.285e5 -0.00004 -1.171e6 -6.058e5 -0.00003 -0.0003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.0003 -0.0003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.	4 361845 1.654e5 1.9237e7 5.9328e6 8.4238e6 8.4238e7 9.1172e6 0.000137 3.2048e5 1.18e5 1.18e5 2.6034e5 1.09e5 2.6034e5 1.3675e5 1.4873e5 6.6795 6.6795 6.7995 6.6795 6.7995
odel Lai Maximu Model S Response Distributio sistimation viewa Maco Sispersion Measure Unumber of Sispersion Measure Logikelit Wumber of Sispersion Measure Parame Parame Sisti Sispersion Measure Control Sispersion Measure Control Sispersion S	unch           um Likelif           ummary           n           Method           Method           In           rows           quencies           tood           rows           quencies           tood           Parameters           -0.0003           -2.186e5           -1.189e5           -1.189e5           -1.189e5           -1.189e5           -0.000033           5.0144e7           -0.000039           0.0000201           -3.6319e5           0.0000239           0.0000239           -3.634e5           -1.189e5           -0.00033           5.0144e7           -3.634e5           -0.0000329           -0.0000124           -3.634e5           -0.0000127           -1.546956           0.000021           -1.546956           0.000021           -1.546956           0.0000124           -1.546956           0.0000124	lightning.end Negative Bind Maximum Lik None Log Identity 37176 14276 7669902 33 153713.71 153464.18 0.024431 tes for Ori 53464.18 0.024431 tes for Ori 7.3145-66 0.000015 1.125e-5 1.6356e-5 1.2443e-5 1.0276e-5 1.2242-5 1.0276e-5 1.2242-5 1.0276e-5 1.2242-5 1.0276e-5 1.2242-5 1.2242-5 1.2314e-5 1.0276e-5 1.2242-5 1.3314e-5 0.000016 1.587e-5 1.5818-5 1.5818-5 1.5818-5	1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	tors Prob > ChiSquare 0.1727 0.0007* 0.0520 0.1097 0.0640 0.03470 0.0640 0.036* 0.0034* 0.00034* 0.0034* 0	Lower 95% -2.431e5 -5.61665 -3.289e5 -0.000044 -5.856e5 -0.000055 -0.000039 -2.285e5 -0.000039 -2.285e5 -0.000039 -0.000039 -1.171e6 -0.00039 -0.000039 -0.000039 -2.153e5 -0.000039 -5.543e5 -0.00039 -5.543e5 -5.00039 -5.543e5 -5.00039 -5.543e5 -5.00039 -5.543e5 -5.00039 -5.543e5 -5.00039 -5.543e5 -5.00039 -5.543e5 -5.00039 -5.543e5 -5.00039 -5.543e5 -5.00039 -5.543e5 -5.00039 -5.543e5 -5.00039 -5.543e5 -5.00039 -5.543e5 -5.00039 -5.5458 -5.00039 -5.5458 -5.00039 -5.5458 -5.00039 -5.5458 -5.00039 -5.5458 -5.5585 -5.00039 -5.5585 -5.00039 -5.5585 -5.00039 -5.5585 -5.00039 -5.5585 -5.00039 -5.5585 -5.00039 -5.5585 -5.00039 -5.5585	4 361846 -1.65465 1.823767 5.932865 8.42385 9.117265 9.117265 9.117265 9.117265 9.117265 9.117265 -1.18655 -1.18655 -0.000016 4.955265 5.094465 5.094465 6.579366 6.579366 6.579366 2.465565 3.2653555 3.2653555 1.877365 1.877555 1.877555 1.877555 1.877555 1.877555 1.877555 1.877555 1.877555 1.877555 1.8775555 1.877555 1.877555 1.877555 1.877555 1.877555 1.8775555 1.8775555 1.8775555 1.8775555 1.877555555 1.87755555 1.87755555555555555555555555555555555555
odel Lai Maximu Vicolei S Vialidation Visteristicational Sisteristicational Visteristicat	unch           um Likelit           um mary           n           Method           Method           Method           Variation           Model Link           rows           quencies           noodd           Parameters           Estimate           -0.00001           -2.186e5           1.89e5           -1.89e5           -1.89e5           -0.000033           -0.000033           -0.189e5           -0.000033           -0.189e5           -0.000033           -0.189e5           -0.000033           -0.189e5           -0.000033           -0.000021           -3.619e5           0.0000144e7           -5.913e5           0.000012           -2.442e5           1.461e5           0.0000344e16	lightning.end Negative Binc Maximum Lik None Log Identity 37176 14276 7669902 331 15371371 15371371 15371371 153746418 0.024431 tes for Ori 5371371 1125e5 1.0356e5 1.0716e5 1.0355e5 1.027455 1.020014 1.0455e5 1.027455 1.027455 1.027455 1.020014 1.0455e5 1.0715e5 1.030014 1.043755 1.0715e5 1	1. mial elihood ginal Predic Wald ChiSquare 1.859509 1.1.859509 1.1.859509 1.1.859509 1.229747 3.4300791 3.4580739 4.4581927 3.4300791 3.4380738 1.229747 9.8064122 0.7669914 1.229409 0.014817 7.1894799 8.0380738 1.229747 9.8064122 0.7669914 1.229409 0.0164287 1.4903106 3.2258206 0.8164287 1.4903106 3.2258206 2.3651447 1.551741	tors Prob > ChiSquare 0.1727 0.0007* 0.0530 0.1997 0.0640 0.7427 0.0640 0.003* 0.001* 0.0046* 0.001* 0.0046* 0.001* 0.0046* 0.001* 0	Lower 95% -2.431e5 -6.166e5 -0.00004 -2.0116e5 -0.00039 -2.285e5 -0.000039 -	4 36184 4 36184 1.65445 1.923747 5.93286 8.42345 9.117246 0.0000137 3.204845 4.13845 4.13845 4.13845 4.13845 4.13845 4.138745 4.0575245 5.094445 -1.0945 6.579346 6.579
odel Lai Maximu Wodel S Varinoutio istimation distribution istimation when Moc Wall Number of Joing Jumber of Jumber of Jumber Jumber of Jumber of Jumber Jumber of Jumber of Jumber Jumber of Jumber of Jumber of Jumber of Jumber Jumber of Jumber of Jum	unch           um Likelit           ummary           Method           Method           Method           Method           Method           Method           Method           Method           Inix           Model Link           rows           quencies           tood           Parameters           2.63165           2.138665           2.63165           1.18965           0.000012           3.61965           0.000033           0.000033           0.000012           3.63965           1.4597266           0.000012           3.63985           1.46165           0.000033           0.000038           0.000038           0.000038           0.000038           0.000038           0.000038           0.000038           0.000038           0.000038           0.000038	lightning.end Negative Binc Maximum Lik None Log Identity 37176 14276 76699012 33 153713.71 153464.18 0.024431 ttes for Ori 1.123e5 1.6452e5 1.6452e5 1.6452e5 1.6452e5 1.2443e5 1.027165 1.2423e5 1.2324e5 1.2321e5 1.2324e5 1.2321e5 1.2321e5 1.3027e5 2.2052e5 1.1331e5 1.3138e5 1.31788e5 1.317888e5 1.317888e5 1.31788888888888888888888888888888888888	11 mial elihood ginal Predic Waid ChiSquare 1.849540 1.541376 3.7747197 2.557902 2.557902 1.541376 3.7747197 2.557902 1.541376 3.7747197 2.557902 2.557902 2.557902 2.557902 2.55904 2.29747 9.860422 0.7669914 2.380499 0.017258 0.8164277 14.903106 3.2258206 2.3651447 14.903105 3.2258206 3.2258206 2.3651447 14.903105 14.903105 3.2258206 2.3651447 14.903105 3.2258206 2.3651447 14.903105 3.2258206 2.3651447 14.903105 3.2258206 3.2258206 3.2258206 3.2258206 3.2258206 3.255741 1.551741	tors Prob > ChiSquare 0.1727 0.0007* 0.0520 0.1097 0.0640 0.747 0.0640 0.0347 0.0640 0.0347 0.0640 0.0347 0.0640 0.0347 0.001* 0.001* 0.003* 0.0007* 0.0014 0.0038 0.0075* 0.0014* 0.0038 0.0075* 0.0014* 0.0038 0.0075* 0.0014* 0.0038 0.0075* 0.0014* 0.0038 0.0075* 0.0014* 0.0038 0.0075* 0.0014* 0.0038 0.0014* 0.0001* 0.00000* 0.0000* 0.00000* 0.0000* 0.0000* 0.0000* 0.0000* 0.	Lower 95% 2.431e5 -6.166e5 -0.000034 -2.2856e5 -0.000039 -2.2856e5 -0.000039 -0.000025 -0.00005 -0.000025 -0.000025 -0.000025 -0.000025 -0.000025 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.0005	4 36184 4 36184 1.654e5 1.9237e7 5.93286 8.423e5 9.1172e6 0.000137 3.2048e5 4.138e5 4.138e5 8.6657e5 -1.09e5 2.6034e5 -0.00016 4.9552e5 5.0944e5 -0.0005 2.4625e5 -0.00002 1.3507e6 -0.0005 4.0104e6 6.1341e5 -0.00056 -0.000
odel Lai Maximu Model S Lai Jastributio Distributio Distributio Sispersion Veasure Loglikelit Vumber of 30 Garneralize Paramet Cerm Cista	unch           um Likelit           um mary           n           Method           Method           Method           Method           Method           Model Link           rows           quencies           noodd           Parameters           Estimate           -0.0001           2.186e5           1.189e5           -1.264e5           0.000021           -3.619e5           0.000023           0.000023           0.000014           -0.000033           1.5469e6           0.000012           -1.46155           0.0000363           -1.46165           0.0000364           -1.46165           0.0000365           -1.46165           0.0000365	lightning, end Negative Binc Maximum Lik None Log Identity 37176 14276 7669902 33 153464.18 0.024431 tes for Ori 53464.18 0.020115 1.1226-5 1.6356-5 1.0716-5 1.24439-5 1.2439-5 1.2245-5 1.23187-5 1.2439-5 1.23187-5 1.23187-5 1.3314-5 0.000014 1.0855-5 1.2224-5 1.23187-5 1.23187-5 1.3314-5 0.000014 1.0857-5 1.3318-5 5 0.000014 1.1757-5 5 1.5819-5 1.1277-5 5 1.5197-5 1.3314-5 0.000014 1.1757-5 1.5197-5 1.3314-5 0.000014 1.1757-5 1.5197-5 1.3314-5 0.000014 1.1757-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.1775-5 1.5197-5 1.51	1. mial elihood ginal Predic Wald ChiSquare 1.859504 1.859504 1.859504 1.859504 0.1077417 3.4300791 8.458105 2.459277 8.586234 0.01014817 7.1890479 8.586234 0.01014817 7.1890479 8.0380738 1.229747 9.8604122 0.7669914 2.384069 0.017258 0.8164287 1.4903165 2.255210 1.2551447 1.551741 1.257571 1.551741 1.257571 1.57751 1	tors Prob > ChiSquare 0.1727 0.0007* 0.0520 0.1907 0.0520 0.0014* 0.4274 0.4274 0.4274 0.4274 0.4274 0.4274 0.4274 0.001* 0.0036* 0.0015* 0.0005*	Lower 95% -2.431e5 -6.166e5 -0.00004 -2.0116e5 -0.00003 -2.285e5 -0.000025 -0.000039 -0.00039 -	4 36184 4 36184 1.65445 1.923747 5.932846 8.42345 9.117246 0.00013 3.20485 4.13845 4.13845 4.13845 4.13845 4.13845 5.094445 5.094445 5.094445 5.094445 5.094445 5.094445 5.094445 5.094445 6.579346 6.57936 6.57956 6.57936 6.57936 6.57936 6.57936 6.57936 6.579566 6.579566 6.579566 6.579566 6.579566 6.579566 6.579566 6.579566 6.579566 6.579566 6.5795666 6.57956666 6.579566666666666666666666
odel Lai Maximu Vicolel S Laiponse histributio biritoriutio statimation den Moc Jispersion den Moc Jispersio	unch           um Likelit           um mary           Method           Method           Method           In           Model Link           rows           quencies           oodd           In           Mathod           RSquare           ter Estimate           -0.00001           -0.00001           -0.000033           5.01486-5           -1.1896-5           -0.000033           0.000021           -3.619-5           0.000033           0.000012           -3.619-5           0.000012           -3.639-5           0.000012           -3.6454           0.000012           -3.638-5           0.000012           -3.6455           0.000012           -3.6456           0.000012           -1.4965           0.46165           0.0000380           0.0000380           0.0000380           0.0000380           0.0000380           0.0000380           0.0000380	lightning.end Negative Bind Maximum Lik None Log didentity 37176 14276 76699012 331371 15346418 0.024431 ttes for Ori 5146426 0.000015 1.1254-5 1.6452e5 1.6	1.1 mial elihood ginal Predic Waid ChiSquare 1.859504 2.557802 2.557802 1.250782 0.1077417 3.430791 8.4588195 0.1077417 7.1890479 8.0380788 1.229747 9.8604122 0.7669914 1.2384059 0.014817 7.1890479 8.0380788 1.229747 9.8604122 0.7669914 1.2384059 0.014817 7.1890479 8.0380788 1.229747 9.8604122 0.7669914 1.2384059 0.017258 0.23651447 1.235174174 1.2351745 1.2351745 1	tors Prob > ChiSquare 0.1727 0.0007* 0.0501 0.2674 0.3470 0.0440 0.03470 0.0440 0.03470 0.0440 0.03470 0.0014* 0.0014* 0.0014* 0.2675 0.0017* 0.0014* 0.0001* 0.00	Lower 95% -2.431e5 -6.166e5 -0.00004 -2.232e5 -0.00004 -0.000039 -0.00039 -0.00039 -0.00039 -0.00039 -0.00	4 36184 4 36184 19237e7 19237e7 19227e7 19227e7 19227e7 19227e7 19227e7 19227e7 19227e7 19227e7 19257e5 1187
odel Lai Maximu Vicolel S Lesponse bisribuitio stimation den Moc Jumber of Jumber of Jumber of Jumber of Science States (Science States) Science States) Science States (Science States) Science States) S	unch           um Likelit           um mary           n           Method           Method           Method           Method           Method           Model Link           rows           quencies           noodd           Parameters           Estimate           -0.0001           2.186e5           1.189e5           -1.264e5           0.000021           -3.619e5           0.000023           0.000023           0.000014           -0.000033           1.5469e6           0.000012           -1.46155           0.0000363           -1.46165           0.0000364           -1.46165           0.0000365           -1.46165           0.0000365	Instant           Iightning.end           Negative.Binc.           Maximum Lik.           None           Log           Identity           Identity           37176           14276           14276           76999012           331371371           15374318           0.024431           Cterror           7.3145e6           0.000014           1.03565           1.23245           1.032165           1.23245           1.344385           0.000014           1.085565           1.23245           1.302765           1.32185           1.32185           1.32185           1.32185           1.32185           1.32185           1.331875           1.331875           1.331875           1.331875           1.331875           1.331875           1.3318875           1.3318875           1.3318875           1.3318875           1.3318875           1.3318875           1.3318	1. mial elihood ginal Predic Wald ChiSquare 1.859504 1.859504 1.859504 1.859504 0.1077417 3.4300791 8.458105 2.459277 8.586234 0.01014817 7.1890479 8.586234 0.01014817 7.1890479 8.0380738 1.229747 9.8604122 0.7669914 2.384069 0.017258 0.8164287 1.4903165 2.255210 1.2551447 1.551741 1.257512 1.551741 1.257512 1.575151 1.257512 1.575151 1.57515 1.57555 1.57555 1.57555 1.57555 1.57555 1.57555 1.	tors Prob > ChiSquare 0.1727 0.0007* 0.0520 0.1907 0.0520 0.0014* 0.4274 0.4274 0.4274 0.4274 0.4274 0.4274 0.4274 0.001* 0.0036* 0.0015* 0.0005*	Lower 95% -2.431e5 -6.166e5 -0.00004 -2.0116e5 -0.00003 -2.285e5 -0.000025 -0.000039 -0.00039 -	4 36184 4 36184 1.65445 1.923747 5.932846 8.42345 9.117246 0.00013 3.20485 4.13845 4.13845 4.13845 4.13845 4.13845 5.094445 5.094445 5.094445 5.094445 5.094445 5.094445 5.094445 5.094445 6.579346 6.57936 6.57956 6.57936 6.57936 6.57936 6.57936 6.57936 6.579566 6.579566 6.579566 6.579566 6.579566 6.579566 6.579566 6.579566 6.579566 6.579566 6.5795666 6.57956666 6.579566666666666666666666

	um Likelił	lood				
Response	ummary	Relation and				
kesponse Distributior	n	lightning.end Negative Bind				
Estimation	Method	Maximum Lik				
Validation		None				
Mean Mod	lel Link Model Link	Log				
Measure	WOUEI LINK	luentity				
Number of	rows	32797				
Sum of Fre	quencies	10549				
LogLikelih		55222.887				
Number of BIC	Parameters	33 110751.48				
AICc		110511.99				
Generalized	d RSquare	0.0323624				
Paramet	ter Estima	tes for Ori	ginal Predic			
ferm	Ectimate	Std Error	Wald ChiSquare	Prob > ChiSquare	Lower 95%	Hoper 05%
KSC1	-1.059e-5		2.5772446	0.1084	-2.353e-5	2.34e-6
KSC2	-4.96e-5	1.0581e-5	21.970557	<.0001*	-7.034e-5	-2.886e-5
KSC4	-7.249e-6	1.0332e-5	0.4922178	0.4829	-2.75e-5	0.000013
KSC5	-5.189e-5		11.393972	0.0007*	-0.000082	-2.176e-5
KSC6 KSC7	3.224e-5 5.9163e-6		4.5841182 0.3167906	0.0323* 0.5735	2.7269e-6 -1.469e-5	6.1753e-5 2.6518e-5
KSC7 KSC8	-2.625e-5		4.5497524	0.5735 0.0329*	-1.469e-5 -5.036e-5	-2.129e-6
KSC9	1.9956e-6		0.0244516	0.8757	-0.000023	0.000027
(SC10	2.0575e-5		3.9604027	0.0466*	3.1133e-7	4.0839e-5
KSC11	-3.233e-5		8.1470898	0.0043*	-5.452e-5	-1.013e-5
KSC12 KSC13	6.5026e-5		32.48361 3.1029982	<.0001* 0.0781	4.2665e-5	8.7388e-5 2.0721e-6
KSC13 KSC14	-1.839e-5		2.6971472	0.1005	-3.886e-5 -3.802e-6	4.3119e-5
KSC14	-5.168e-5		6.4006812	0.0114*	-9.172e-5	-1.164e5
KSC16	1.5465e-5	9.5447 <del>e</del> -6	2.6253396	0.1052	-3.242e-6	3.4173e-5
KSC17	-1.587e-5		1.0273823	0.3108	-4.655e-5	1.4816e-5
KSC18	-5.476e-6		0.2526307	0.6152	-2.683e-5	1.5879e-5
KSC19 KSC20	-0.000034 -2.266e-5		7.1170579 2.430986	0.0076* 0.1190	-0.000059 -5.114e-5	-9.013e-6
KSC21	1.4926e-5		1.7008579	0.1922	-7.506e-6	3.7359e-5
KSC22	-4.034e-6	1.1259e-5	0.1283948	0.7201	-2.61e-5	1.8033e-5
KSC24	0.0000086	1.0427e-5	0.6803621	0.4095	-1.184e-5	2.9038e-5
KSC25	-3.157e-5		14.432711 1.8068801	0.0001*	-4.786e-5	-1.528e-5 5.7074e-6
(SC26 (SC27	-1.246e-5 5.1726e-5		1.8068801 20.634568	0.1789 <.0001*	-3.063e-5 0.0000294	5.7074e6 7.4044e5
(SC28	2.5461e-5		7.0485032	0.0079*	6.6645e-6	4.4257e-5
(SC29	3.0411e-5	1.124e-5	7.3205669	0.0068*	8.3813e-6	5.244e-5
(SC30	-0.000038		11.238278	0.0008*	-6.027e-5	-1.58e-5
(SC31 (SC32	-3.279e-6 0.0000215		0.154249 1.7609207	0.6945 0.1845	-1.964e-5 -1.025e-5	1.3085e5 5.3243e5
(SC32	-2.63e-5		4.788447	0.0287*	-1.025e-5	-2.744e-6
		0.0116404				
Vienoreion	0 0000766		6000 5007	> 0001*	0 0053570	0 000051
	ed Regre		ghtning.end			n nonensa
odel Lau	ed Regre unch	ssion for lig				0.0200053
odel Lau Maximu	ed Regre unch um Likelił	ssion for lig				0.0200053
odel Lau Maximu Model Si	ed Regre unch	ssion for lig 100d	ghtning.end			0.0200053
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odel Lat Maximu Model SI Vaributioni varib	sed Regre:           unch           um Likelii           um Mary           n           Method           lel Link           Model Link           rows           quencies           ood           Parameters           d RSquare           ter Estimate           -9.381+6           -1.855+5           -2.368+5           -0.000070           5.5872+5           -0.000079           5.588+5           -1.827+5           -5.884+6           -0.000035           -2.561+5           -0.000035           -2.561+5           -1.965-5           -1.965-5	ssion for lightning.end           Nood           lightning.end           Negative Bind           Maximum Lik           None           Log           Identity           40495           13917           7134.181           14978321           14978321           0.0234465           0.0234465           0.0234455           0.0020166           1.7061e5           1.3181e5           1.3265e5           1.2763e5           1.1172e5           1.26165e5           1.2763e5           1.661e5           1.3845e5           1.661e5           1.3945e5           1.6011e5           1.6011e5           1.6011e5           1.6011e5           1.6011e5 <tr< td=""><td>ginal Predic ginal Predic Waid ChiSquare 1.5628146 2.433804 2.433804 2.433804 2.433804 2.433804 2.433804 2.433804 2.433804 2.433804 2.433804 2.433804 2.435804 2.44580404 2.44580404 2.4458</td><td>1.1 BySenso tors Prob &gt; ChiSquare 0.2113 0.150 0.0794 0.0015* 0.001</td><td>Lower 95% -0.000024 -4.1610-5 -4.312e5 -8.623e5 -0.000013 1.061e-6 -0.000048 -5.0856-5 -4.134e5 -0.000013 1.061e-6 -0.000013 3.5699e6 -1.964e5 -0.00003 3.5699e6 -1.964e5 -0.00003 3.5699e6 -1.964e5 -0.00003 3.5699e6 -1.964e5 -0.00003 3.5699e6 -1.964e5 -0.00003 -1.964e5 -0.00003 -1.964e5 -0.00003 -1.964e5 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00004 -1.964e5 -0.00004 -1.964 -0.00004 -1.964 -0.00004 -0.0004 -0.00004 -0.000</td><td>Upper 95% 5.2266e4 4.5176e4 2.3856e5 2.3856e5 2.2336e5 3.4876e4 4.4835e5 5.9173e6 3.8078e4 4.4835e5 5.9173e6 3.8176e4 4.4827e5 4.4927e5 4.</td></tr<>	ginal Predic ginal Predic Waid ChiSquare 1.5628146 2.433804 2.433804 2.433804 2.433804 2.433804 2.433804 2.433804 2.433804 2.433804 2.433804 2.433804 2.435804 2.44580404 2.44580404 2.4458	1.1 BySenso tors Prob > ChiSquare 0.2113 0.150 0.0794 0.0015* 0.001	Lower 95% -0.000024 -4.1610-5 -4.312e5 -8.623e5 -0.000013 1.061e-6 -0.000048 -5.0856-5 -4.134e5 -0.000013 1.061e-6 -0.000013 3.5699e6 -1.964e5 -0.00003 3.5699e6 -1.964e5 -0.00003 3.5699e6 -1.964e5 -0.00003 3.5699e6 -1.964e5 -0.00003 3.5699e6 -1.964e5 -0.00003 -1.964e5 -0.00003 -1.964e5 -0.00003 -1.964e5 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00003 -0.00004 -1.964e5 -0.00004 -1.964 -0.00004 -1.964 -0.00004 -0.0004 -0.00004 -0.000	Upper 95% 5.2266e4 4.5176e4 2.3856e5 2.3856e5 2.2336e5 3.4876e4 4.4835e5 5.9173e6 3.8078e4 4.4835e5 5.9173e6 3.8176e4 4.4827e5 4.4927e5 4.
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odel Lat Maximu Model S2 Response Distribution Starbution Wean Mod Number of Subpersion Measure Number of Subpersion Measure Paramet Paramet Rerm CSC1 CSC2 CSC3 CSC3 CSC4 CSC3 CSC4 CSC3 CSC4 CSC4	sed Regre:           anch           um Likelii           um Mary           n           Method           lel Link           Model Link           rows           quencies           ood           Parameters           d RSquare           ter Estimate           -9.381+6           -1.855e5           -3.385e5           -2.368e5           -2.368e5           -1.892e5           -3.844e5           -3.84e5           -3.892e5           -0.000013           -2.858e5           -2.858e5           -3.892e5           0.000013           -2.858e5           -1.892e5           -1.892e5           -1.892e5           -1.892e5           -1.892e5           -1.9625           -1.9625           -1.9625           -1.9625           -1.9625           -1.9625           -1.9625           -1.9625           -1.9625           -1.9625           -1.9625           -1.9625 </td <td>Sisten for lightning.end           Negative Bind           Maximum Lik           None           Log           Identity           40495           13917           74734.181           14978321           14978321           0.0224465           tes for Ori           Std Error           7.5039-6           1.1767-5           0.000016           0.000016           1.1726-5           1.2763-5           1.2665-5           1.2763-5           1.0568-5           1.3861-5           1.3454-5           1.0568-5           1.3454-5           1.0568-5           1.3845-5           1.0568-5           1.3845-5           1.0568-5           1.3945-5           1.0568-5           1.3945-5           1.0415-5           1.0562-5           0.0000112           1.2279-5           1.0562-5           1.0415-5           1.0562-5           1.0562-5           1.0562-5           1.0000112  <!--</td--><td>ginal Predic ginal Predic Waid ChiSquare 1.5628146 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.435884 2.44588484 2.4458848 2.44588484 2.44588484 2.44588484 2.44588484</td><td>1.1 BySenso tors Prob &gt; ChiSquare 0.2113 0.150 0.0734 0.0015° 0.0024° 0.0024° 0.0224° 0.0224° 0.032° 0.1347 0.0132° 0.0032°</td><td>Lower 95% -0.00024 -4.161e5 -8.623e5 -0.000023 -0.000048 -5.085e5 -0.000031 1.061e6 -0.000048 -1.964e5 -0.000031 -1.964e5 -0.000033 -0.000031 -0.0</td><td>Upper 95% 5.3266e4 4.5176e4 2.0355 0.000034 -3.664e6 3.4875e6 4.4835e5 5.9173e6 8.0887e5 4.4837e6 4.4837e5 4.4837e6 4.4827e5 0.000031 -1.17924e6 1.17246 1.17246 1.</td></td>	Sisten for lightning.end           Negative Bind           Maximum Lik           None           Log           Identity           40495           13917           74734.181           14978321           14978321           0.0224465           tes for Ori           Std Error           7.5039-6           1.1767-5           0.000016           0.000016           1.1726-5           1.2763-5           1.2665-5           1.2763-5           1.0568-5           1.3861-5           1.3454-5           1.0568-5           1.3454-5           1.0568-5           1.3845-5           1.0568-5           1.3845-5           1.0568-5           1.3945-5           1.0568-5           1.3945-5           1.0415-5           1.0562-5           0.0000112           1.2279-5           1.0562-5           1.0415-5           1.0562-5           1.0562-5           1.0562-5           1.0000112 </td <td>ginal Predic ginal Predic Waid ChiSquare 1.5628146 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.435884 2.44588484 2.4458848 2.44588484 2.44588484 2.44588484 2.44588484</td> <td>1.1 BySenso tors Prob &gt; ChiSquare 0.2113 0.150 0.0734 0.0015° 0.0024° 0.0024° 0.0224° 0.0224° 0.032° 0.1347 0.0132° 0.0032°</td> <td>Lower 95% -0.00024 -4.161e5 -8.623e5 -0.000023 -0.000048 -5.085e5 -0.000031 1.061e6 -0.000048 -1.964e5 -0.000031 -1.964e5 -0.000033 -0.000031 -0.0</td> <td>Upper 95% 5.3266e4 4.5176e4 2.0355 0.000034 -3.664e6 3.4875e6 4.4835e5 5.9173e6 8.0887e5 4.4837e6 4.4837e5 4.4837e6 4.4827e5 0.000031 -1.17924e6 1.17246 1.17246 1.</td>	ginal Predic ginal Predic Waid ChiSquare 1.5628146 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.433884 2.435884 2.44588484 2.4458848 2.44588484 2.44588484 2.44588484 2.44588484	1.1 BySenso tors Prob > ChiSquare 0.2113 0.150 0.0734 0.0015° 0.0024° 0.0024° 0.0224° 0.0224° 0.032° 0.1347 0.0132° 0.0032°	Lower 95% -0.00024 -4.161e5 -8.623e5 -0.000023 -0.000048 -5.085e5 -0.000031 1.061e6 -0.000048 -1.964e5 -0.000031 -1.964e5 -0.000033 -0.000031 -0.0	Upper 95% 5.3266e4 4.5176e4 2.0355 0.000034 -3.664e6 3.4875e6 4.4835e5 5.9173e6 8.0887e5 4.4837e6 4.4837e5 4.4837e6 4.4827e5 0.000031 -1.17924e6 1.17246 1.17246 1.
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odel Lat Maximu Model SJ abstribution testimation Wean Mod Dispersion Measure Number of Dispersion Measure Number of Silo Alco Beneralized Paramet Kicci Sic	Eed Regre:           anch           um Likelii           um Mary           n           Method           lel Link           Model Link           rows           quencies           ood           Parameters           I RSquare           Estimate           -9.381+6           -1.855+5           -2.368+5           -2.368+5           -2.368+5           -2.368+5           -2.368+5           -2.368+5           -2.368+5           -3.834+6           2.2957-5           -1.892+5           -3.844-6           2.2957-5           -1.892+5           -3.618+5           -0.000013           -2.4283+5           -0.670+5           -1.892+5           -0.670+5           -0.898+6           -1.892+5           -0.898+6           -1.892+5           -0.898+6           -1.892+5           -0.898+6           -1.892+5           -0.898+6           -1.892+5           -0.898+6 </td <td>Sisten for lightning.end           Nood           lightning.end           Negative Bind           Maximum Lik           None           Log           Identity           40.495           13917           7473.4181           149783.21           0.0224465           tes for Ori           Std Error           7.5039-6           1.1767-5           0.000016           0.000016           1.1724-5           1.2656-5           1.2763-5           1.0568-5           1.2763-5           1.0568-5           1.28165           1.2945-5           1.0568-5           1.2845-5           1.0568-5           1.2945-5           1.0568-5           1.2945-5           1.0568-5           1.2945-5           1.0568-5           1.2945-5           1.0568-5           1.0568-5           1.0568-5           1.0568-5           1.0568-5           1.0568-5           1.0568-5           1.0568-5</td> <td>ginal Predic elihood ginal Predic Wald ChiSquare 1.5622146 2.433884 3.0781561 10.55279 2.437805 2.237605 2.237605 12.688609 5.2153874 2.2918471 0.0391557 4.222765 2.2376006 6.1370086 3.3722892 1.4926722 0.3155311 0.031567 1.4076761 9.56742552 6.5822647 6.8300224</td> <td>tors Prob &gt; ChiSquare 0.2113 0.0794 0.004* 0.004* 0.004* 0.004* 0.004* 0.004* 0.004* 0.004* 0.004* 0.004* 0.003* 0.0134* 0.0134* 0.0132* 0.0132* 0.0132* 0.0132* 0.013* 0.0013* 0</td> <td>Lower 95% -0.00024 -4.161e5 -8.623e5 -0.000023 -0.000048 -5.085e5 -0.000031 1.061e6 -0.000048 -7.074e6 -0.000048 -1.964e5 -0.000031 -0.0</td> <td>Upper 95% 5.2266e4 4.5176e4 2.0356e4 2.0356 3.487564 2.5236e5 4.4853e5 5.9173e6 8.0887e5 4.4853e5 4.4827e4 4.4827e5 0.000031 4.4927e5 0.0000215 1.7179 1.7179 1.7</td>	Sisten for lightning.end           Nood           lightning.end           Negative Bind           Maximum Lik           None           Log           Identity           40.495           13917           7473.4181           149783.21           0.0224465           tes for Ori           Std Error           7.5039-6           1.1767-5           0.000016           0.000016           1.1724-5           1.2656-5           1.2763-5           1.0568-5           1.2763-5           1.0568-5           1.28165           1.2945-5           1.0568-5           1.2845-5           1.0568-5           1.2945-5           1.0568-5           1.2945-5           1.0568-5           1.2945-5           1.0568-5           1.2945-5           1.0568-5           1.0568-5           1.0568-5           1.0568-5           1.0568-5           1.0568-5           1.0568-5           1.0568-5	ginal Predic elihood ginal Predic Wald ChiSquare 1.5622146 2.433884 3.0781561 10.55279 2.437805 2.237605 2.237605 12.688609 5.2153874 2.2918471 0.0391557 4.222765 2.2376006 6.1370086 3.3722892 1.4926722 0.3155311 0.031567 1.4076761 9.56742552 6.5822647 6.8300224	tors Prob > ChiSquare 0.2113 0.0794 0.004* 0.004* 0.004* 0.004* 0.004* 0.004* 0.004* 0.004* 0.004* 0.004* 0.003* 0.0134* 0.0134* 0.0132* 0.0132* 0.0132* 0.0132* 0.013* 0.0013* 0	Lower 95% -0.00024 -4.161e5 -8.623e5 -0.000023 -0.000048 -5.085e5 -0.000031 1.061e6 -0.000048 -7.074e6 -0.000048 -1.964e5 -0.000031 -0.0	Upper 95% 5.2266e4 4.5176e4 2.0356e4 2.0356 3.487564 2.5236e5 4.4853e5 5.9173e6 8.0887e5 4.4853e5 4.4827e4 4.4827e5 0.000031 4.4927e5 0.0000215 1.7179 1.7179 1.7
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odel Lau Maximu Model SX Exeponse Distribution Validation I Validation Valida	Example         Regrese           anch         um Likelil           um Likelil         ummary           n         Method           hell Link         mose           Model Link         rows           quencies         nood           Parameters         9-3816-6           2.0376-5         2.3296-5           2.0376-5         2.3346-6           2.834-6         2.2387-5           0.000007         2.5856-5           2.834-6         2.4283-5           1.8427-5         1.8427-5           1.8427-5         2.5872-5           1.8427-5         2.586-5           2.958-5         2.4283-5           2.958-5         2.5361-5           1.542-6         2.6327-5           1.542-6         2.4283-5           2.557-5         2.561-5           1.542-6         2.2587-5           2.958-5         2.5361-5           1.542-6         2.6327-5           2.5612-5         2.5612-5           2.5612-5         2.5612-5           2.5612-5         2.5612-5           2.5612-5         2.5612-5	sion for lightning.end Negative Bind Maximum Lik None Log Identity	ginal Predic Waid ChiSquare 1.522146 2.483884 3.0781561 10.055279 12.688609 5.215387 4.2227695 2.237606 19.163124 2.237605 2.237506 19.163124 2.237605 2.237506 19.163124 2.237605 3.3722892 1.4926722 3.375351 1.4926722 0.3155311 0.0167619 5.6742562 6.8302244 1.306651 5.7745166	1.1 BySenso tors Prob > ChiSquare 0.2113 0.0132* 0.0876 0.08431 0.032* 0.0876 0.0224* 0.0826 0.0132* 0.003* 0.0132* 0.003* 0.0132* 0.003* 0.003* 0.0132* 0.003* 0.003* 0.003* 0.003* 0.003* 0.003* 0.003* 0.013* 0.013* 0.013* 0.003* 0.003* 0.003* 0.003* 0.003* 0.003* 0.013* 0.013* 0.013* 0.003* 0.003* 0.003* 0.003* 0.003* 0.003* 0.003* 0.013* 0.013* 0.013* 0.013* 0.013* 0.013* 0.003* 0.01	Lower 95% -0.00024 -4.161e5 -8.623e5 -0.000027 -4.312e5 -8.623e5 -0.000013 1.061e6 -0.00001 3.5695e5 -4.134e5 -0.00001 3.5695e5 -0.000013 -0.00003 -0.000013 -0.00003 -0.0003 -0.00003 -0.	Upper 95% 5.3266e6 4.5176e6 2.3356e6 2.3356e6 2.3356e6 2.3356e6 2.3236e5 4.4835e5 5.9173e6 8.0887e6 4.4837e6 4.4827e6 4.4827e6 1.184653e5 4.7234e6 1.717e5 0.000047 4.7256e6 1.7724e7 1.77244e7 1.77244447 1.772447 1.772447 1.772447 1.77247 1.77247 1.77247 1.7724
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## Appendix G: Negative Binomial Regression Models to Predict Storm Cessation (cont.)

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Response	anniary	lightning.end	.1				
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	Parameters	33					
BIC		192006.57					
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Generalized		0.0353912	ninal Prodic	torc			
Parame	ter Estima	ites for Ong	ginal Predic Wald	Prob >			
Term KSC1	Estimate -2.243e-5	Std Error 7.9948e-6	ChiSquare 7.8730483	ChiSquare 0.0050*	Lower 95% -3.81e-5	Upper 95% -6.763e-6	
KSC1 KSC2	-2.243e-5		20.249069	<.0001*	-3.81e-5	-0./03e-0 -3.042e-5	
KSC4	-1.683e-5		1.8340629	0.1756	-4.119e-5	7.5275e-6	
KSC5	0.0000589		12.655515	0.0004*	2.6446e-5	9.134e-5	
KSC6	5.6071e-5	1.7943e-5	9.7649006	0.0018*	0.0000209	9.124e-5	
KSC7	-1.63e-6		0.0222296	0.8815	-0.000023	0.0000198	
KSC8	-2.226e-7		0.0002144	0.9883	-0.00003	2.9573e-5	
KSC9	-3.469e-5		4.9600518	0.0259*	-6.522e-5	-4.161e-6	
KSC10 KSC11	1.7959e-5 -1.443e-5		2.6735518 1.0881262	0.1020	-3.568e-6 -4.155e-5	3.9487e-5 1.2684e-5	
KSC12	4.4215e-5		9.7418437	0.0018*	1.645e-5	7.198e-5	
KSC12 KSC13	-0.000045		12.4008	0.0004*	-7.01e-5	-0.00002	
KSC14	1.6316e-5	0.0000148	1.2136888	0.2706	-1.271e-5	4.5342e-5	
KSC15	-3.149e-5		1.5641716	0.2111	-8.084e-5	1.7859e-5	
KSC16	0.0000436		14.225364	0.0002*	2.094e-5	6.6247e-5	
KSC17 KSC18	-5.289e-5		8.714046	0.0032* 0.0010*	-0.000088	-1.777e-5	
KSC18 KSC19	-4.253e-5 -5.448e-7		10.860034 0.001223	0.0010*	-6.783e-5 -0.000031	-1.724e-5 2.9989e-5	
KSC20	-3.448e-/ -1.475e-5		0.6846939	0.4080	-4.969e-5	2.9989e-5 2.0188e-5	
KSC21	1.375e-5		1.0705769	0.3008	-1.23e-5	0.0000398	
KSC22	-0.00003	1.2264e-5	5.9515017	0.0147*	-0.000054	-5.882e-6	
KSC24	-2.513e-5		4.8195228	0.0281*	-4.756e-5	-2.694e-6	
KSC25	-0.000044		22.590538	<.0001*	-0.000062	-2.582e-5	
KSC26	-1.68e-5		2.789763	0.0949	-3.651e-5	2.9135e-6	
KSC27 KSC28	5.1589e-5 9.283e-5		17.624296 68.892054	<.0001* <.0001*	0.0000275 0.0000709	7.5674e-5 0.0001148	
KSC20	6.9747e-6		0.2790771	0.5973	-0.000019	3.2851e-5	
KSC30	-5.969e-5		20.04678	<.0001*	-8.582e-5	-3.356e-5	
KSC31	1.2431e-5		1.7668027	0.1838	-5.899e-6	3.076e-5	
KSC32	3.955e-5	0.000019	4.3318302	0.0374*	2.3058e-6	0.0000768	
KSC34	-6.405e-6		0.191603	0.6616	-0.000035	2.2275e-5	
Generaliz	ed Reare		htning.end	I.1 BySenso			
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Aodel Lau Maximu Model S Response Distributio Estimation Validation Mean Mod Dispersion Mumber of Sum of Fre -LogLikelif Number of Sum of Fre -LogLikelif Number of BIC Generalized Paramet Term KSC1 KSC2 KSC4 KSC5 KSC5 KSC5 KSC6 KSC7 KSC8 KSC1 KSC12 KSC14 KSC14 KSC15 KSC16 KSC17 KSC18 KSC18 KSC16 KSC17 KSC18 KSC18 KSC18 KSC18 KSC18 KSC16 KSC17 KSC18 KSC18 KSC18 KSC18 KSC18 KSC16 KSC17 KSC18 KS	Inch           Method           Method           Method           In           Method           In           Method           In           Method           In           Method           In           Model Link           rows           quencies           iood           Parameters           3.965e5           -3.965e5           -3.965e5           -4.558e6           1.2443e5           -1.877e5           -3.985e5           -1.878e5           -1.955e5           -3.957e6           -2.587e5           2.6725e5           1.4688e6           -0.00003	ssion for lig hood lightning.end Negative Binc Maximum Lik None Log Identity 49836 19123 10307825 33 20642838 20642838 20642838 20642838 20642838 20642838 20642838 20642838 20642838 2064285 10307825 51.028455 1.028455 1.212e5 1.212e5 1.2161e5 1.212e5 1.2161e5 1.212e5 1.2161e5 1.212e5 1.21674e5 2.1577e5 0.00001 1.5846e5	1 mial elihood Vaid ChiSquare 6.332023 0.6370516 17.55561 0.0261057 4.5892221 1.524605 0.0208085 2.601883 15.861479 2.1.11229 2.601883 1.524803 0.0380851 1.524805 0.0380851 0.04388397 1.4374851 7.1422955 0.0085918 2.2.62078	tors Prob > ChiSquare 0.0118 0.0001* 0.4248 0.0322* 0.2169 0.6517 0.1067 <.0001* 0.5077 0.205 0.0001* 0.5077 0.205 0.0001* 0.5077 0.205 0.0001* 0.5077 0.205 0.0001* 0.5077 0.205 0.001* 0.5077 0.205 0.001* 0.5077 0.205 0.001* 0.5077 0.205 0.001* 0.5077 0.205 0.001* 0.5077	Lower 95% -3.154e5 -6.12e5 -2.3602e6 -1.811e5 -2.431e5 -2.431e5 -4.351e5 -2.431e5 -1.641e5 -0.0000246 -7.227e5 -1.644e5 -7.1264e6 -2.959e5 -7.1264e6	Upper 95% -3.922e6 -1.81e5 -2.712e5 0.00004 9.9046 4.2048e6 4.2048e5 -0.000029 3.3236e5 -1.642e5 4.6324e5 3.3236e5 -3.46324e5 -3.2526e5 -3.2526e5 -3.1225	
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Aodel Lau Maximu Model S Response Distributio Estimation Validation Mean Mod Dispersion Mumber of Sum of Fre -LogLikelif Number of Sum of Fre -LogLikelif Number of BIC Generalized Paramet Term KSC1 KSC2 KSC4 KSC5 KSC5 KSC5 KSC6 KSC7 KSC8 KSC1 KSC12 KSC14 KSC14 KSC15 KSC16 KSC17 KSC18 KSC18 KSC16 KSC17 KSC18 KSC18 KSC18 KSC18 KSC18 KSC16 KSC17 KSC18 KSC18 KSC18 KSC18 KSC18 KSC16 KSC17 KSC18 KS	Inch           Method           Method           Method           In           Method           In           Method           In           Method           In           Method           In           Model Link           rows           quencies           iood           Parameters           3.965e5           -3.965e5           -3.965e5           -4.558e6           1.2443e5           -1.877e5           -3.985e5           -1.878e5           -1.955e5           -3.957e6           -2.587e5           2.6725e5           1.4688e6           -0.00003	ssion for lig hood lightning.end Negative Binc Maximum Lik None Log Identity 49836 19123 10307825 33 206222.61 0.0262853 20648185 20648185 20648185 20648185 20648185 20648185 20648185	1 mial elihood Vaid ChiSquare 6.332023 0.6370516 17.55561 0.0261057 4.5892221 1.524605 0.0208085 2.601883 15.861479 2.1.11229 2.601883 1.524803 0.0380851 1.524805 0.0380851 0.04388397 1.4374851 7.1422955 0.0085918 2.2.62078	tors Prob > ChiSquare 0.0118 0.0001* 0.4248 0.0322* 0.2169 0.6517 0.1067 <.0001* 0.5077 0.205 0.0001* 0.5077 0.205 0.0001* 0.5077 0.205 0.0001* 0.5077 0.205 0.0001* 0.5077 0.205 0.0001* 0.5077 0.205 0.0001* 0.5077 0.205 0.0001* 0.5077 0.205 0.001* 0.5077 0.205 0.001* 0.5077 0.205 0.001* 0.5077 0.507	Lower 95% -3.154e5 -6.12e5 -2.3602e6 -1.811e5 -2.431e5 -2.431e5 -4.351e5 -2.431e5 -1.641e5 -0.0000246 -7.227e5 -1.644e5 -7.1264e6 -2.959e5 -7.1264e6	Upper 95% -3.922e6 -1.81e5 -2.712e5 0.00004 9.9046 4.2048e6 4.2048e5 -0.000029 3.3236e5 -1.642e5 4.6324e5 3.3236e5 -3.46324e5 -3.2526e5 -3.2526e5 -3.1225	
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Aodel Lau Maximu Model S Response Distribution Estimation Validation Mean Mod Dispersion Measure Number of Sum of Fre -LogLikelii Number of BIC Generalized Paramet KSC1 KSC2 KSC4 KSC2 KSC4 KSC2 KSC5 KSC6 KSC7 KSC8 KSC1 KSC2 KSC1 KSC1 KSC1 KSC2 KSC1 KSC2 KSC1 KSC1 KSC2 KSC1 KSC2 KSC1 KSC2 KSC1 KSC2 KSC1 KSC2 KSC2 KSC1 KSC2 KSC1 KSC2 KSC2 KSC2 KSC1 KSC2 KSC1 KSC2	Inch           um Likelit           ummary           Method           Method           Method           In           Model Link           Model Link           Model Link           Model Link           Parameters           I RSquare           Estimate           -1.773e5           -3.965e5           0.000063           -4.588e6           -1.2443e5           -5.0606e5           3.9355e5           -4.843a65           -5.000053           -1.344e5           -1.344e5           -1.344e5           -7.947e7           -5.411e6	ssion for lig hood lightning.end Negative Binc Maximum Lik None Log Identity 49836 19123 10307825 33 206481,83 206422,261 0.0262853 ttes for Orig Std Error 7.0466e-6 0.000011 1.0728-5 1.582e-5 1.582e-5 1.582e-5 1.582e-5 1.29465 1.29465 1.29465 1.29465 1.29465 1.212e-5 1.212e-5 1.212e-5 1.212e-5 1.3354e-5 1.3354e-5 1.3354e-5 1.3454e-5 1.3454e-5 1.3454e-5 1.3454e-5 1.3454e-5 1.3454e-5 1.3454e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.3354e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.344e-5 1.344e-5 1.3354e-5 1.3354e-5 1.344e-5 1.344e-5 1.344e-5 1.3354e-5 1.3454e-5	1 mial elihood <b>ginal Predic</b> <b>Waid</b> <b>ChiSquare</b> 6.332923 13.00767 20.137022 0.637051 15.246005 2.6010831 15.861479 2.1.11229 0.030085 2.6010831 15.861479 2.1.11229 0.038085 0.038918 2.2.62078 1.10131765 0.02285176 0.02285 0.02585 0.02585 0.02585 0.02585 0.02585 0.02585 0.02585 0.02585 0.02585 0.02585 0.02585 0.02585 0	tors Prob > ChiSquare 0.0118° 0.0001° 0.4248 0.04248 0.4248 0.0422° 0.4517 0.106 0.6517 0.10517 0.0001° <.0001° <.0001° <.0001° 0.0022° 0.2305 0.0022° 0.2305 0.0022° 0.2305 0.0022° 0.2305 0.0022° 0.2305 0.0022° 0.0010	Lower 95% -3.154e5 -6.12e5 -6.912e5 -1.811e5 -2.451e5 -2.451e5 -2.451e5 -1.647e5 -1.647e5 -1.647e5 -2.959e5 -7.474e5 -3.361e5 -7.1264e6 -2.959e5 -7.474e5 -3.361e5 -0.000031 -2.784e5	Upper 95% -3.922e6 -1.81e5 -2.712e5 -2.712e5 -2.712e5 -3.3116e5 -3.3116e5 -3.313e5 -3.312e5 -1.632e5 -3.6324e5 -3.112e5 -3.12265 -3.12265 -3.1225 -3.1255 -3.1	
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Aodel Lau Maximu Model S Response Distribution Dispersion Mean Mod Dispersion Measure Number of Sum of Fre -LogLikelif Number of BIC Generalized Paramet KSC1 KSC2 KSC4 KSC5 KSC6 KSC7 KSC8 KSC7 KSC8 KSC7 KSC8 KSC1 KSC2 KSC1 KSC1 KSC1 KSC1 KSC1 KSC2 KSC1 KSC1 KSC2 KSC1 KSC2 KSC1 KSC2 KSC1 KSC1 KSC1 KSC2 KSC1 KSC1 KSC1 KSC2 KSC1 KSC1 KSC2 KSC2 KSC1 KSC2 KSC1 KSC2 KSC2 KSC1 KSC2	Inch           Immediate           Immediate           Immediate           Method           Method           Method           Immediate           Method           Immediate           Method           Immediate           Method           Immediate           Immediate <td>ssion for lig hood lightning.end Negative Binc Maximum Lik Log Identity 49836 19123 10307825 3206481.83 206222.61 0.0262853 tes for Orig Std Error 7.0466e-6 0.000011 1.0728-5 1.5889-5 1.0162e5 1.2948-5 1.24645-5 1.24645-5 1.212e-5 1.212e-5 1.2255 1.1127-5 1.3354e-5 1.3354e-5 1.1127-5 1.3354e-5 1.3484e-5 1.1127-5 1.3354e-5 1.3484e-5 1.11445-6 0.000010 8.9334e-5 1.3484e-5 1.11445-6 1.14454e-5 1.3484e-5 1.11445-6 1.14454e-5 1.3484e-5 1.11445-6 1.14454e-5 1.11445-6 1.1145-6 1.11445-6 1.11445-6 1.11445-6 1.11445-6 1.11445-6 1.11445-6 1.11445-6 1.11445-6 1.11445-6 1.1145</td> <td>1 mial elihood ginal Predic Waia ChiSquare 6.333293 20.137022 0.6370516 17.55561 0.2061057 2.0137022 0.6370516 17.55561 0.2061057 2.039085 2.039085 2.039085 2.039085 2.039085 0.208085 2.039085 0.208085 0.208085 0.208085 0.208085 0.208085 0.208085 0.208085 0.208085 0.208085 0.208085 0.208085 0.038918 2.0438285 0.00285916 0.2235176 0.0228516 0.0228517 1.142595 0.0082918 1.113775 0.028518 1.11259 0.0028518 1.11259 0.028518 1.02157 1.021</td> <td>tors Prob &gt; 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			ginal Predic	tors		
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Term	Estimate	Std Error	ChiSquare	ChiSquare	Lower 95%	Upper 95%
KSC1	-0.00001		1.776259	0.1826	-2.453e-5	4.6719e-6
KSC2 KSC4	-3.454e-5 -9.749e-6		8.3231469 0.7105509	0.0039* 0.3993	-0.000058 -3.242e-5	-0.000011 1.2919e-5
KSC5	-0.000061		13.141979	0.0003*	-0.000094	-0.000028
KSC6	7.5566e-5	1.7125e-5	19.47186	<.0001*	0.000042	0.0001091
KSC7	-3.82e-5	0.0000111	11.855666	0.0006*	-0.00006	-1.645e-5
KSC8	-1.645e-5		1.3915767	0.2381	-4.378e-5	1.088e-5
KSC9 KSC10	2.5817e-6 2.8822e-5		0.0315141 6.7316452	0.8591 0.0095*	-0.000026 7.0494e-6	3.1086e-5 0.0000506
KSC10	-0.000017		1.7077159	0.1913	-4.268e-5	8.5339e-6
KSC12	3.9076e-5	1.3128e-5	8.8599134	0.0029*	1.3346e-5	0.0000648
KSC13	-8.538e-6		0.5055332	0.4771	-0.000032	0.000015
KSC14	1.0812e-5		0.6332024	0.4262	-1.582e-5	3.7444e-5
KSC15 KSC16	-1.625e-5 1.8683e-5		0.5048085 2.909839	0.4774 0.0880	-0.000061 -2.784e-6	2.8576e-5 4.015e-5
KSC17	-3.112e-5		3.3592962	0.0668	-6.441e-5	2.1587e-6
KSC18	-1.562e-5	0.000012	1.6952425	0.1929	-3.915e-5	7.8958e-6
KSC19	-2.536e-6		0.0315025	0.8591	-3.054e-5	2.5465e-5
KSC20	-1.523e-5		0.8418535	0.3589	-4.778e-5	0.0000173
KSC21 KSC22	5.3615e-6 -6.938e-6		0.1802105 0.3544686	0.6712 0.5516	-1.939e-5 -2.978e-5	3.0116e-5 0.0000159
KSC24	-3.433e-5		9.9570142	0.0016*	-5.566e-5	-0.0000133
KSC25	-5.141e-5	9.0502 <del>e</del> -6	32.262122	<.0001*	-6.914e-5	-3.367e-5
KSC26	2.8492e-6		0.0782272	0.7797	-1.712e-5	2.2815e-5
KSC27 KSC28	4.0152e-5 4.5476e-5		10.387418 16.6371	0.0013* <.0001*	1.5734e-5 2.3624e-5	6.4569e-5 6.7329e-5
KSC29	-9.19e-6		0.4762744	0.4901	-3.529e-5	1.691e-5
KSC30	-0.000023	1.3165e-5	3.0322309	0.0816	-4.873e-5	2.8783e-6
KSC31	-9.852e-6		1.0963898	0.2951	-2.829e-5	8.5896e-6
KSC32 KSC34	2.9042e-5 6.9215e-6		2.4203729	0.1198	-7.546e-6	6.563e-5
			0 2376063	0.6259	-0.000021	3 4752-5
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Term	Estimate	Std Error	ChiSquare	ChiSquare	Lower 95%	Upper 95%	
KSC1	-2.68e-5	7.4848e-6	12.818122	0.0003*	-4.147e-5	-1.213e-5	
KSC2	-6.75e-5		34.275513	<.0001*	-9.01e-5	-0.000045	
KSC4	-2.063e-6		0.0309293	0.8604	-0.000025	2.0924e-5	
KSC5 KSC6	0.0000404		6.4726818	0.0110*	9.2766e-6	7.1524e-5 0.0001108	
KSC0 KSC7	7.7344e-5 -1.46e-5		20.570389 1.9324965	<.0001* 0.1645	4.3921e-5 -3.52e-5	5.9865e-6	
KSC8	3.4126e-6		0.057312	0.8108	-2.453e-5	3.1352e-5	
KSC9	-3.767e-5	1.4558e-5	6.6957873	0.0097*	-6.62e-5	-9.137e-6	
KSC10	1.5112e-5		2.0986778	0.1474	-5.333e-6	3.5557e-5	
KSC11	-2.349e-5		3.2793503	0.0702	-0.000049	1.9337e-6	
KSC12 KSC13	2.8516e-5 -0.000035		4.6869894 8.3958787	0.0304*	0.0000027 -5.868e-5	5.4333e-5 -1.133e-5	
KSC14	2.4077e-5		3.0407557	0.0038	-2.985e-6	5.114e-5	
KSC14	-2.253e-5		0.9545022	0.3286	-6.773e-5	2.2669e-5	
KSC16	3.9324e-5	1.0955e-5	12.884422	0.0003*	1.7852e-5	0.0000608	
KSC17	-4.463e-5		7.3578597	0.0067*	-7.688e-5	-1.238e-5	
KSC18	-4.244e-5		12.511864	0.0004*	-0.000066	-0.000019	
KSC19 KSC20	-7.226e-6 4.8989e-6		0.2490506	0.6177 0.7682	-3.561e-5 -2.769e-5	2.1155e-5 3.7483e-5	
KSC20	0.0000103		0.6791321	0.4099	-2.769e-5	3.483e-5	
KSC22	-2.076e-5	1.1414e-5	3.3093841	0.0689	-4.313e-5	1.607e-6	
KSC24	-2.957e-5		7.6739996	0.0056*	-5.049e-5	-8.648e-6	
KSC25	-6.13e-5		49.283158	<.0001*	-7.842e-5	-4.419e-5	
KSC26 KSC27	-1.559e-5 4.0322e-5		2.6569201 11.662492	0.1031 0.0006*	-3.434e-5 1.718e-5	3.1563e-6 6.3463e-5	
KSC28	6.6052e-5		37.338081	<.0001*	4.4866e-5	8.7239e-5	
KSC29	-1.076e-5		0.7047075	0.4012	-3.588e-5	1.4363e-5	
KSC30	-4.89e-5		14.405828	0.0001*	-7.414e-5	-2.365e-5	
KSC31	9.787e-6		1.2114017	0.2711	-7.641e-6	2.7215e-5	
KSC32 KSC34	3.0158e-5 0.0000226		2.7813016 2.5604313	0.0954	-5.285e-6 -5.084e-6	0.0000656	
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| Estimation<br>Validation  |  | Maximum Lik<br>None   
   
   
   
   
   
   
   
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| -LogLikelil   | hood   | 127785.76   
   
   
   
   
   
   
   
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| Number of<br>BIC  | f Parameters   | 33<br>25590228  
   
   
   
   
   
   
   
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| Generalize  | d RSquare  | 0.0255474   
   
   
   
   
   
   
   
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| KSC1  | -0.000017  |   
   
   
   
   
   
   
   
   | ChiSquare<br>4.4512522  
  | ChiSquare<br>0.0349*   | -3.282e-5  | -1.208e-6  
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| KSC2  | -3.459e-5  | 1.2129e-5   
   
   
   
   
   
   
   
   | 8.134748  
  | 0.0043*  | -5.837e-5  | -1.082e-5  
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| KSC4<br>KSC5  | -5.94e-5   |   
   
   
   
   
   
   
   
   | 24.454836<br>1.7401691  
  | <.0001*<br>0.1871  | -0.000083<br>-1.069e-5   | -3.586e-5<br>0.0000547   
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| KSC5<br>KSC6  | 8.8625e-5  |   
   
   
   
   
   
   
   
   | 24.814802   
  | <.0001*  | -1.069e-5<br>5.3755e-5   | 0.0000547  
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| KSC7  | 0.0000012  | 1.0824e-5   
   
   
   
   
   
   
   
   | 0.0122981   
  | 0.9117   | -0.00002   | 2.2414e-5  
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| KSC8<br>KSC9  | 4.766e-5   |   
   
   
   
   
   
   
   
   | 10.815737<br>8.8230401  
  | 0.0010*<br>0.0030*   | 1.9256e-5<br>-7.534e-5   | 7.6064 <del>e</del> 5<br>-1.544 <del>e</del> 5   
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| KSC9<br>KSC10   | -4.539e-5<br>0.0000159   |   
   
   
   
   
   
   
   
   | 2.1587284   
  | 0.0030*  | -7.534e-5<br>-5.307e-6   | -1.544e-5<br>3.7089e-5   
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| KSC11   | -6.82e-6   | 1.3577e-5   
   
   
   
   
   
   
   
   | 0.2523014   
  | 0.6155   | -3.343e-5  | 0.0000198  
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| KSC12<br>KSC13  | 3.7261e-5<br>-0.000048   |   
   
   
   
   
   
   
   
   | 7.4171702<br>14.700777  
  | 0.0065*  | 1.0446e-5<br>-7.239e-5   | 6.4077e-5<br>-2.342e-5   
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| KSC13<br>KSC14  | 3.9216e-5  |   
   
   
   
   
   
   
   
   | 7.4138884   
  | 0.0065*  | -7.239e-5<br>1.0987e-5   | -2.342e-5<br>6.7444e-5   
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| KSC15   | -4.586e-5  | 0.000024  
   
   
   
   
   
   
   
   | 3.651098  
  | 0.0560   | -0.000093  | 1.1803e-6  
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| KSC16<br>KSC17  | 2.8568e-5<br>-3.059e-5   |   
   
   
   
   
   
   
   
   | 6.4229365<br>3.2735235  
  | 0.0113*<br>0.0704  | 6.4747e-6<br>-6.372e-5   | 5.0662e-5<br>2.5473e-6   
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| KSC17<br>KSC18  | -3.059e-5<br>-5.435e-5   |   
   
   
   
   
   
   
   
   | 3.2735235<br>19.324461  
  | <.0001*  | -6.372e-5<br>-7.859e-5   | -3.012e-5  
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| KSC19   | -2.313e-5  | 1.5078e-5   
   
   
   
   
   
   
   
   | 2.3534564   
  | 0.1250   | -5.268e-5  | 6.4213e-6  
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| KSC20<br>KSC21  | 6.3501e-6<br>3.143e-5  |   
   
   
   
   
   
   
   
   | 0.1312314 5.8232227   
  | 0.7172<br>0.0158*  | -0.000028<br>5.9024e-6   | 0.0000407<br>5.6959e-5   
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| KSC22   | -2.154e-5  | 1.1836e-5   
   
   
   
   
   
   
   
   | 3.3112741   
  | 0.0688   | -4.474e-5  | 1.6603e-6  
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| KSC24   | -1.126e-5  | 1.0889e-5   
   
   
   
   
   
   
   
   | 1.070038  
  | 0.3009   | -3.261e-5  | 1.0078e-5  
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| KSC25<br>KSC26  | -0.000066<br>-1.285e-5   |   
   
   
   
   
   
   
   
   | 54.679542<br>1.6709572  
  | <.0001*<br>0.1961  | -8.359e-5<br>-3.234e-5   | -4.856e-5<br>6.6343e-6   
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| KSC27   | 2.4842e-5  | 1.2061e-5   
   
   
   
   
   
   
   
   | 4.2423898   
  | 0.0394*  | 1.203e-6   | 4.8481e-5  
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| KSC28   | 9.8244e-5  | 1.1074e-5   
   
   
   
   
   
   
   
   | 78.707564   
  | <.0001*  | 7.654e-5   | 0.0001199  
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| KSC29<br>KSC30  | -3.738e-6<br>-4.356e-5   |   
   
   
   
   
   
   
   
   | 0.0797959 10.495177   
  | 0.7776 0.0012*   | -2.967e-5<br>-0.00007  | 0.0000222<br>-1.721e-5   
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| KSC31   | 2.4133e-5  | 9.0023e-6   
   
   
   
   
   
   
   
   | 7.1864256   
  | 0.0073*  | 6.4887e-6  | 4.1777e-5  
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| KSC32<br>KSC34  | 2.1283e-6<br>1.8925e-5   |   
   
   
   
   
   
   
   
   | 0.0132811 1.7768154   
  | 0.9083 0.1825  | -0.000034<br>-8.902e-6   | 3.8324e-5<br>4.6751e-5   
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| Dispossion  | 1.892060   |   
   
   
   
   
   
   
   
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  | 0.1023   | -8.902e-0<br>1.2542627   | 1 205 22/5   
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| Indel La<br>Maxim<br>Model S<br>Response<br>Distributio<br>Estimation<br>Validation<br>Mean Moc<br>Dispersion<br>Measure<br>Number of<br>Sum of Fre<br>-LogLikelil  | unch<br>um Likelił<br>ummary<br>n<br>Method<br>del Link<br>Model Link<br>f rows<br>equencies   | lightning.end<br>Negative Bin<br>Maximum Lik<br>None<br>Log<br>Identity<br>59899<br>24080<br>138109.6<br>33   
   
   
   
   
   
   
   
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   | ginal Predic<br>Wald<br>ChiSquare<br>3.1766131<br>45.841651   
  | ctors<br>Prob ><br>Chifquare<br>0.0747<br><.0001*  | Lower 95%<br>-1.419e6<br>-0.000105   | <b>Upper 95%</b><br>0.000299<br>-5.7665  
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   | ginal Predic<br>Wald<br>ChiSquare<br>3.1768131<br>45.841651   
  | tors<br>Prob ><br>0.0747<br>0.0001*<br>0.0001*   | Lower 95%<br>-1.419e6<br>-0.000105<br>-6.487e5   | Upper 95%<br>0.000299<br>-5.766e5  
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   | ginal Predic<br>ginal Predic<br>Maid<br>ChiSquare<br>3.1768131<br>45.841651<br>12.190022<br>12.307798   
  | tors<br>Prob ><br>Chifquar<br>0.001*<br>0.0005*<br>0.0005*   | Lower 95%<br>-1.419e6<br>-0.000105   | Upper 95%<br>0.0000299<br>-5.766e5<br>-1.822e5<br>9.2255e5   
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  | tors<br>Prob ><br>ChiSquare<br>0.0747<br>0.0005°<br>0.0002°<br>0.0022°   | Lower 95%<br>-1.419-6<br>-0.000105<br>-6.487-5<br>2.6121-5<br>-3.1275-5<br>-4.539-5  | Upper 95%<br>0.000299<br>-5.766e5<br>-1.822e5<br>0.0001024<br>-3.463e6  |   | | |
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                              | tors<br>Prob ><br>ChiSquare<br>0.0747<br>0.0005°<br>0.0002°<br>0.00224°<br>0.0024°   | Lower 95%<br>-1.419-6<br>-0.000105<br>-6.48762<br>-3.12756-<br>3.12756-<br>2.6121e5<br>-2.2022e5   | Upper 95%<br>0.00029<br>-57665<br>9.22565<br>0.000124<br>-3.463e6   |   | | |
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| odel La<br>Maxim<br>Model S<br>Response<br>Distributio<br>Distributio<br>Dispersion<br>Measure<br>Number of<br>Sourn of Fre<br>LogLikelil<br>Number of<br>SiC<br>AlCc<br>Seneralize<br>Parame<br>CSC1<br>(SC2<br>(SC4<br>(SC5<br>(SC5)<br>(SC6)<br>(SC7)<br>(SC8)   | unch<br>um Likelit<br>ummary<br>n<br>Method<br>Jel Link<br>Model Link<br>frows<br>equencies<br>nood<br>d RSquare<br>ter Estimate<br>1.4245e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115 | lightning.end<br>Negative Bint<br>Maximum Lik<br>None<br>Log<br>Identity<br>24080<br>138109.6<br>32<br>762853<br>0.0210318<br>ttes for Ori<br>58te Error<br>7.9222-6<br>1.080619<br>0.0000107<br>1.5031-6<br>1.5783-6   
   
   
   
   
   
   
   
   | ginal Predic<br>Wald<br>ChiSquare<br>3.176813<br>2.197092<br>12.307798<br>13.574016<br>5.2155036<br>11.730915<br>15.33521   
  | tors<br>Prob ><br>ChiSquare<br>0.0747<br>0.0005*<br>0.0002*<br>0.0224<br>0.0006*<br>0.0006*  | Lower 95%<br>-1.419-6<br>-0.000105<br>-6.48762<br>-3.12756-<br>3.12756-<br>2.6121e5<br>-2.2022e5   | Upper 95%<br>0.000299<br>5.766-5<br>9.2255-5<br>0.0001024<br>3.463-6<br>8.0942e5<br>3.247-5  
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| odel La<br>Maxim<br>Model S<br>Response<br>Distributio<br>Dispersion<br>Weam Mocasure<br>Number o'<br>Macasure<br>Number 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  | tors<br>Prob ><br>ChiSquare<br>0.0747<br>0.0005*<br>0.0005*<br>0.0002*<br>0.0022*<br>0.0224<br>0.0224  | Lower 95%<br>-1.419e6<br>-0.000105<br>-6.487e5<br>2.6121e5<br>3.1275e5<br>-2.0222e5<br>-9.434e5<br>-1.589e5<br>-1.589e5  | Upper 95%<br>0.000299<br>-5.766-5<br>-1.822-5<br>9.2254-5<br>0.001024<br>-3.463-6<br>6.8.9942-5<br>-3.247-5<br>-3.247-5<br>-3.247-5<br>-7.933-6  
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  | tors<br>Prob ><br>ChiSquare<br>0.0741*<br>0.0005*<br>0.0002*<br>0.0224*<br>0.0006*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.022*<br>0.022*<br>0.0224*<br>0.0224*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.02*<br>0.022*<br>0.022*<br>0.022*<br>0. | Lower 95%<br>-1.419e-6<br>-0.000105<br>-6.487e-5<br>2.6121e5<br>2.6121e5<br>-1.549e-5<br>-1.549e-5<br>-1.549e-5<br>-2.459e-5<br>-1.2454e-5<br>2.000005   | Upper 95%<br>0.000299<br>5.766-5<br>9.2255-5<br>0.001024<br>-3.463e-5<br>3.447e-5<br>2.7563e-5<br>7.9339e-6  
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| odel La<br>Maxim<br>Model S<br>Response<br>Ibitributio<br>Sistributio<br>Dispersion<br>Measure<br>Number or<br>Macaure<br>Number or<br>Macaure<br>Number or<br>Macaure<br>Sisteneralize<br>Beneralize<br>Beneralize<br>Beneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sisteneralize<br>Sistenera   | unch           um Likelit           ummary           n           Method           Jel Link           Model Link           Model Link           Model Link           Parameters           d RSquare           ter Estimate           1.42455           5.9188e5           5.9188e5           6.6224e5           -2.442e5           -6.341e5           -0.300394           -0.00019           4.0376e5           -7.76e5   | lightning.end<br>Negative Bint<br>Maximum Lik<br>None<br>Log<br>Identity<br>24080<br>1381096<br>32<br>762853<br>0.0210318<br>ttes for Ori<br>58te Error<br>7.9922-6<br>1.8871e5<br>1.817e5<br>0.0000107<br>1.5031e5<br>1.817e5<br>0.0000107<br>1.5783e5<br>1.922e5<br>1.3221e5  
   
   
   
   
   
   
   
   | ginal Predic<br>ginal Predic<br>elihood<br>Maid<br>ChiSquare<br>3.1766131<br>2.190022<br>12.307798<br>13.574016<br>5.2155036<br>11.730915<br>13.574016<br>5.2155036<br>11.309511<br>0.3022108<br>1.9091905<br>8.0324502<br>35.28816   
  | tors<br>Prob ><br>ChiSquare<br>0.0741*<br>0.0005*<br>0.0002*<br>0.0224*<br>0.0006*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.0224*<br>0.022*<br>0.022*<br>0.0224*<br>0.0224*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.022*<br>0.02*<br>0.022*<br>0.022*<br>0.022*<br>0. | Lower 95%<br>-1.419e-6<br>-0.000105<br>-6.487e-5<br>2.6121e5<br>2.6121e5<br>-1.549e-5<br>-1.549e-5<br>-1.549e-5<br>-2.459e-5<br>-1.2454e-5<br>2.000005   | Upper 95%<br>0.000299<br>-5.766-5<br>-1.822-5<br>-3.247-5<br>2.7562-5<br>7.9339-6<br>0.000068<br>-0.00005  
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| odel La<br>Maxim<br>Model S Response<br>Distributio<br>Sistributio<br>Dispersion Wean Moc<br>Number of<br>Dispersion<br>Measure<br>Number of<br>Dispersion<br>Measure<br>Number of<br>Sister<br>Number of<br>Sister<br>Number of<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister<br>Sister  | n<br>Method<br>Method<br>Jel Link<br>Model Link<br>frows<br>quencies<br>nood<br>d RSquare<br>ter Estimate<br>1.4245e5<br>-6.824e5<br>-6.8155e5<br>5.1482e5<br>-6.824e5<br>-6.0383e6<br>-0.0303e6<br>-0.0303e6<br>-0.0303e6<br>-0.0383e6<br>-0.0383e6<br>-0.0303e6<br>-0.0383e6<br>-0.0383e6<br>-0.0383e6<br>-0.0383e6<br>-0.0383e6<br>-0.0383e6<br>-0.0383e6<br>-0.0383e6<br>-0.0383e6<br>-0.0383e6<br>-0.0383e6<br>-0.0383e6<br>-0.0383e6<br>-0.000019  | 1000d<br>lightning.end<br>Negative Bino<br>Kone<br>Log<br>Identity<br>24080<br>1381096<br>33<br>276552.15<br>2762853<br>0.0210318<br><b>Std Error</b><br>7.9922e6<br>1.1986e5<br>0.000019<br><b>Std Error</b><br>1.0982e5<br>1.1987<br><b>Std Error</b><br>1.0982e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.1988e5<br>1.19888<br>1.19888<br>1.19888<br>1.19888<br>1.198888<br>1.1988   
   
   
   
   
   
   
   
   | ginal Predic<br>ginal Predic<br>Wald<br>ChiSquare<br>13.574016<br>5.215036<br>11.730915<br>16.139521<br>0.3023108<br>1.991905<br>8.032402<br>3.5288816<br>6.3951681   
  | tors<br>Prob ><br>ChiSquare<br>0.0747<br>0.0005*<br>0.0005*<br>0.0002*<br>0.0024<br>0.001*<br>0.0006*<br>0.0004*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*   | Lower 95%<br>-1.419e6<br>-0.000105<br>-6.487e5<br>2.0121e5<br>-4.539e5<br>2.2022e5<br>-4.539e5<br>-1.549e5<br>-1.2454e5<br>-0.000103<br>8.0938e6   | Upper 95%<br>0.000299<br>5.766-5<br>9.2255-5<br>0.0001024<br>3.403-6<br>8.09425<br>7.7503-5<br>7.9339-6<br>0.000052<br>6.3803-5<br>0.000052<br>6.3803-5  
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  | unch<br>um Likelit<br>ummary<br>n<br>Method<br>Method<br>iel Link<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>d RSquare<br>ter Estimate<br>1.4245e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-6.824e5<br>-0.00019<br>-0.3033e6<br>-0.3033e6<br>-0.30376e5<br>-7.76e5<br>3.5978e5<br>-1.067e5<br>-1.067e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.077e5<br>-1.0   | Initial State           Ilightning.end           Negative Bin           Maximum Lik           None           Log           Identity           138109.6           3276552.15           2762853           0.210318           tter for Ori           Std Error           7.9922-6           1.1986-5           1.000019           1.6871-6           1.5783-5           1.3921-5           1.4246-5           1.4246-5           1.42481-5           1.1238-6  
   
   
   
   
   
   
   
   | ginal Predic<br>Wald<br>ChiSquare<br>3.1768131<br>4.5441651<br>12.190022<br>12.30778<br>13.574016<br>5.2155036<br>11.730915<br>13.574016<br>5.215505<br>8.0324502<br>3.5288816<br>6.3951681<br>0.1839453<br>0.025138  
  | tors<br>Prob ><br>ChiSquare<br>0.0741 +<br>0.0005*<br>0.0002*<br>0.0022*<br>0.0224<br>0.00045*<br>0.00045*<br>0.0024<br>0.00045*<br>0.00045*<br>0.00045*<br>0.00045*<br>0.0001*<br>0.0014*<br>0.00045*<br>0.0001*<br>0.00045*<br>0.00045*<br>0.00045*<br>0.00045*<br>0.00045*<br>0.00045*<br>0.00045*<br>0.00045*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*<br>0.0005*   | Lower 95%<br>-1.419e-6<br>-0.00105<br>-6.487e5<br>2.6121e5<br>-1.549e5<br>-1.549e5<br>-1.2454e5<br>-0.00103<br>8.0393e6<br>-5.944e5<br>-2.024e5  | Upper 95%<br>0.000029<br>5.766-5<br>9.2255-5<br>9.2255-5<br>2.753-5<br>7.933-6<br>0.000068<br>-0.000058<br>-0.000058<br>-0.0000381<br>0.000028   
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| odel La<br>Maxim<br>Model S Response<br>Distribution<br>Estimation desamble<br>Substribution<br>Number of Dispersion<br>Measure<br>Juby States<br>Number of Substribution<br>Substribution<br>Number of 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95%<br>0.000029<br>-5.766e5<br>-1.822e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3.247e5<br>-3 |   |   |   |  |   
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| odel La<br>Maxim<br>Model S Distributio<br>Estimation<br>Mean Moc Subispersion<br>Measure<br>Sum of Fre<br>LogLikelin<br>Number of<br>Sum of Fre<br>LogLikelin<br>Alco<br>Generalize<br>Parame<br>Frem<br>Erem<br>KSC1<br>KSC4<br>KSC4<br>KSC4<br>KSC5<br>KSC5<br>KSC5<br>KSC6<br>KSC6<br>KSC1<br>KSC1<br>KSC1<br>KSC1<br>KSC1<br>KSC1<br>KSC1<br>KSC1  | unch           um Likelit           ummary           n           Method           Method           Jel Link           Model Link           Model Link           Model Link           Parameters           d RSquare           ter Estimate           1.4245=5           5.9188=5           6.624=5           -3.415=5           5.4182=5           -6.341=5           -0.3003=6           -7.76e5           3.5978=5           -1.067=5           1.7817=6           -2.423=5  | lightning.end<br>Negative Bind<br>Maximum Lik<br>None<br>Log<br>1381099<br>24080<br>33<br>27652515<br>27652515<br>2765253<br>0.0210318<br>tets for Ori<br>5td Error<br>7.9922-65<br>1.0982-5<br>1.0982-5<br>1.0000107<br>1.503165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.372165<br>1.   
   
   
   
   
   
   
   
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Predic<br>Vaid<br>ChiSquare<br>1.3,574016<br>5.2155036<br>11,739015<br>6.302798<br>3.52841651<br>1.3,57416<br>5.2155036<br>11,739015<br>6.30251681<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>3.528816<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.302310<br>0.3031000000000000000000000000000000 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  | Lower 95%<br>-1.419e-6<br>-0.000105<br>-6.4872-5<br>2.612165<br>-2.6222e-5<br>-1.5492-5<br>-1.5492-5<br>-1.24549-5<br>-0.00105<br>-4.5392-5<br>-1.24549-5<br>-0.0249-5<br>-2.0249-5<br>-2.0249-5<br>-5.9448-5<br>-2.0249-5<br>-5.9448-5<br>-7.247-65   | Upper 95%<br>0.000299<br>-5.766-5<br>9.2255-5<br>9.2255-5<br>9.2255-5<br>7.7533-5<br>7.9339-6<br>0.000068<br>-0.00005<br>0.3863-5<br>0.0000381<br>0.000023<br>8.7748-6<br>-2.438-5   
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| odel La<br>Maxim<br>Model S Response<br>Distributio<br>Estimation<br>Mean Moc Subjersion<br>Measure<br>Sum of Fre<br>Logikelin<br>Number of<br>Sum of Fre<br>Sum of Fre<br>Sum of Fre<br>Sum of Fre<br>Subjersion<br>Alaca<br>Generalize<br>Parame<br>Frem<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>S                   | unch<br>um Likelit<br>ummary<br>n<br>Method<br>Jel Link<br>Model Link<br>frows<br>equencies<br>nood<br>d RSquare<br>ter Estimate<br>1.42455-<br>8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5<br>-8.116e5  | lightning.end<br>Negative Bint<br>Maximum Lik<br>None<br>Log<br>Identity<br>59899<br>24080<br>1381096<br>32762853<br>0.0210318<br>ttes for Ori<br>58te Error<br>7.9922-6<br>1.0871e5<br>1.8137e5<br>0.0000107<br>1.5031e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.4271e5<br>1.42711e5<br>1.4471e5<br>1.4471e5<br>1.4471 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Predic<br>Wald<br>ChiSquare<br>3.176613<br>3.176613<br>3.176613<br>12.19022<br>12.307798<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13.574016<br>13 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><br>ChiSquare<br>0.0747<br><.0001*<br>0.0005*<br>0.0022*<br>0.0024*<br>0.0006*<br><.0001*<br>0.0224*<br>0.0006*<br>0.0224*<br>0.0006*<br>0.0014*<br>0.0114*<br>0.6680<br>0.8740<br>0.1874*<br>0.0144*<br>0.0514*<br>0.014*<br>0.0514*<br>0.014*<br>0.0514*<br>0.014*<br>0.014*<br>0.0514*<br>0.014*<br>0.014*<br>0.014*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.027*<br>0.024*<br>0.055*<br>0.011*<br>0.055*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.0   | Lower 95%<br>-1.419e6<br>-0.000105<br>-6.487e5<br>2.6121e5<br>2.2022e5<br>-1.549e5<br>-1.549e5<br>-1.549e5<br>-1.549e5<br>-2.0224e5<br>-2.024e5<br>-5.9448e5<br>-5.9448e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.244e5<br>-5.24465<br>-5.24465<br>-5.24465<br>-5.24465<br>-5.2446   | Upper 95%<br>0.000239<br>-5.766-5<br>-1.822-5<br>9.2254-5<br>0.000163<br>-3.463-6<br>8.0942-5<br>-3.247-5<br>-3.247-5<br>-0.000683<br>-0.0000238<br>8.7748-6<br>-2.438-6<br>-0.0000238<br>8.7748-6<br>-2.438-5<br>-6.2145-5<br>1.5464-5   
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| odel La<br>Maxim<br>Model S Response<br>Distributio<br>Statiation<br>Wean Moc<br>Jospersion<br>Measure<br>Number o'<br>Sico Statiation<br>Measure<br>Number o'<br>Sico Statiation<br>Measure<br>Number o'<br>Sico Statiation<br>Measure<br>Number o'<br>Sico Statiation<br>Sico Sico Sico Sico Sico Sico Sico Sico   | unch<br>um Likelit<br>um mary<br>n<br>Method<br>Method<br>Helink<br>Model Link<br>frows<br>rquencies<br>nood<br>Parameters<br>d RSquare<br>ter Estimate<br>1.4245e-<br>5.9188e-<br>5.0482e5<br>-6.442e5<br>5.1482e5<br>-6.442e5<br>-6.442e5<br>-6.442e5<br>-6.442e5<br>-7.76e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0676e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.0376e5<br>-1.03   | lightning.end<br>Negative Bind<br>Maximum Lik<br>None<br>Log<br>Identity<br>1381096<br>33<br>27655215<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27652515<br>27655515<br>27655515<br>27655515<br>27655515<br>27655515<br>27655515<br>27655515<br>27655555555555555555555555555555555555  
   
   
   
   
   
   
   
  | ginal Predic<br>elihood<br>ginal Predic<br>Waid<br>ChiSquare<br>3.1768131<br>45.44163<br>12.190022<br>12.307798<br>13.574016<br>5.2155036<br>11.730915<br>16.139521<br>0.3022108<br>1.990420<br>3.2288816<br>6.3951681<br>0.139521<br>0.3022108<br>1.990420<br>3.2288816<br>6.3951681<br>0.139542<br>0.025138<br>2.1199329<br>15.58003<br>4.8461161<br>1.1020795<br>0.023182   
   | tors<br>Prob ><br>ChiSquare<br>0.0747<br>0.0005*<br>0.0005*<br>0.0002*<br>0.0002*<br>0.0004<br>0.0006*<br>0.0004*<br>0.0004*<br>0.0004*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.000*<br>0.00*   | Lower 95%<br>-1.419=6<br>-0.00105<br>-6.487e5<br>-2.6121e5<br>-3.1275e5<br>-9.434e5<br>-1.549e5<br>-2.2022e5<br>-0.00103<br>8.0392e6<br>-1.549e5<br>-2.2024e5<br>-5.944e5<br>-2.204e5<br>-5.944e5<br>-2.204e5<br>-5.944e5<br>-2.204e5<br>-2.5946e5<br>-2.204e5<br>-2.5946e5<br>-2.204e5<br>-2.5946e5<br>-2.204e5<br>-2.5946e5<br>-2.204e5<br>-2.5946e5<br>-2.204e5<br>-2.5946e5<br>-2.204e5<br>-2.5946e5<br>-2.204e5<br>-2.5946e5<br>-2.204e5<br>-2.5946e5<br>-2.2047e5<br>-2.5946e5<br>-2.2047e5<br>-2.5946e5<br>-2.2047e5<br>-2.5946e5<br>-2.2047e5<br>-2.5946e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.5946e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e5<br>-2.2047e   | Upper 95%<br>0.000029<br>-5.766e.5<br>9.2555<br>0.0001024<br>-3.463e6<br>8.0942e5<br>-3.247e5<br>2.753a5<br>0.000038<br>-0.000038<br>-0.000038<br>0.000038<br>8.7748e6<br>-2.438e5<br>6.2145e5<br>-2.438e5<br>5.2487e5  |   | |
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| odel La<br>Maxim<br>Model S Response<br>Distributio<br>Estimation Mean Moc<br>Dispersion<br>Measure<br>Jumof Fre-<br>Loglikeli<br>Number of<br>Bic<br>AlaCa<br>Generalize<br>Parame<br>Ferm<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisci<br>Sisc       | unch<br>um Likelit<br>ummary<br>n<br>Method<br>iel Link<br>Model Link<br>frows<br>equencies<br>nood<br>d RSquare<br>ter Estimate<br>1.42455-<br>8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.115e5  | lightning.end<br>Negative Bint<br>Maximum Lik<br>None<br>Log<br>Identity<br>59899<br>24080<br>1381096<br>32762853<br>0.0210318<br>ttes for Ori<br>58te Error<br>7.9222-6<br>1.0806+5<br>0.0000107<br>1.5031e5<br>1.8137e5<br>0.0000107<br>1.5031e5<br>1.2371e5<br>1.2371e5<br>1.2382-5<br>1.2382-5<br>1.2382-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268-5<br>1.2268  
   
   
   
   
   
   
   
   | ginal Predic<br>elihood<br>ginal
Predic<br>Wald<br>ChiSquare<br>3.176613<br>3.574016<br>12.190022<br>13.574016<br>5.2155036<br>11.730915<br>16.139521<br>0.3023108<br>1.0293108<br>1.0293108<br>1.0293108<br>2.119320<br>1.558030<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.0251338<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025138<br>0.025158<br>0.025158<br>0.025158<br>0.025158<br>0.025158<br>0.025158<br>0.025158<br>0.025158<br>0.0 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| Upper
95%<br>0.000299<br>-5.766-5<br>-1.822-5<br>9.2255-5<br>0.000168<br>-3.247-5<br>-3.247-5<br>-3.247-5<br>-0.000068<br>-0.000028<br>8.7748-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.438-6<br>-2.238-6<br>-2.438-6<br>-2.438-6<br>-2.238-6<br>-2.438-6<br>-2.238-6<br>-2.438-6<br>-2.238-6<br>-2.438-6<br>-2.438-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.438-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6<br>-2.238-6     |   |   |   |  |   
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| odel La<br>Maxim<br>Model S Response<br>Distributio<br>Distributio<br>Dispersion<br>Meas Moc<br>Number o'<br>Dispersion<br>Measure<br>Number o'<br>Bic<br>Alco<br>Generalize<br>Parame<br>Visco<br>Stato<br>Sico<br>Sico<br>Sico<br>Sico<br>Sico<br>Sico<br>Sico<br>Sic   | unch<br>um Likelii<br>ummary<br>Method<br>Method<br>Iel Link<br>frows<br>quencies<br>nood<br>r Parameters<br>d RSquare<br>ter Estimate<br>1.4245e5<br>6.0824e5<br>6.0824e5<br>6.0824e5<br>6.0824e5<br>6.0824e5<br>6.0824e5<br>6.0824e5<br>6.0824e5<br>6.0824e5<br>6.0824e5<br>6.0824e5<br>6.0832e6<br>6.0832e6<br>6.0832e6<br>6.0832e6<br>6.0832e6<br>6.0832e6<br>6.0832e6<br>6.0832e6<br>6.0832e6<br>6.0832e6<br>7.776e5<br>3.5978e5<br>3.5978e5<br>7.776e5<br>3.5978e5<br>7.776e5<br>3.5978e5<br>7.776e5<br>3.5978e5<br>7.776e5<br>3.5978e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>3.2875e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.776e5<br>7.77   | Instant           Iightning.end           Negative Bin           Maximum Lik           None           Log           Identity           138109.6           33           276555.3           276285.3           0.0210318           tter For Ori           Steffror           1.9866-5           0.0000107           1.68716-5           1.0882-5           1.37838-5           1.03828-5           1.42466-5           1.2388-5           1.42348-5           1.42346-5           1.42348-5           1.2388-5           1.42346-5           1.2388-5           1.4348-5           1.2388-5           1.4348-5           1.2388-5           1.4348-5           1.2388-5           1.2494-5           0.00017           1.267-5           1.267-5           1.267-5           1.267-5           1.267-5           1.267-5           1.267-5           1.267-5           1.267-5 <tr td=""> <td>ginal Predic<br/>elihood<br/>ginal Predic<br/>Waid<br/>ChiSquare<br/>3.1768131<br/>45.44163<br/>12.190022<br/>12.307798<br/>13.574016<br/>5.2155036<br/>11.730915<br/>16.139521<br/>0.3022108<br/>1.990420<br/>3.2288816<br/>6.3951681<br/>0.139521<br/>0.3022108<br/>1.990420<br/>3.2288816<br/>6.3951681<br/>0.139542<br/>0.025138<br/>2.1199329<br/>15.58003<br/>4.8461161<br/>1.1020795<br/>0.023182</td><td>tors<br/>Prob &gt;<br/>ChiSquare<br/>0.0747<br/>0.0005*<br/>0.0005*<br/>0.0002*<br/>0.0224<br/>0.0224<br/>0.0224<br/>0.0224<br/>0.0224<br/>0.0224<br/>0.0224<br/>0.0224<br/>0.0224<br/>0.0224<br/>0.0224<br/>0.0224<br/>0.0227<br/>0.0214<br/>0.0277*<br/>0.0238<br/>0.0454<br/>0.0277*<br/>0.0238<br/>0.0454<br/>0.0277*<br/>0.0238<br/>0.0454<br/>0.0277*<br/>0.0238<br/>0.0454<br/>0.0277*<br/>0.0238<br/>0.0454<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0454<br/>0.0277*<br/>0.0238<br/>0.0454<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0454<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0238<br/>0.0277*<br/>0.0289<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0287*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.0285*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025</td><td>Lower
95%<br/>-1.419=6<br/>-0.000105<br/>-6.487e5<br/>-6.487e5<br/>-2.022e5<br/>-9.434e5<br/>-1.549e5<br/>-2.022e5<br/>-0.000103<br/>8.0938e6<br/>-5.944e5<br/>-2.024e5<br/>-3.857e5<br/>-3.847e5<br/>-3.847e5<br/>-3.817e5<br/>-3.817e5<br/>-3.817e5<br/>-3.817e5</td><td>Upper 95%<br/>0.000029<br/>5.7665-5<br/>9.2555.0.0001024<br/>-3.463-6<br/>8.09425-<br/>7.9339-6<br/>0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.2436-5<br/>5.1446-5<br/>-2.4376-5<br/>5.15464-5<br/>-2.4376-5<br/>-3.1638-7<br/>-3.1638-7</td></tr> <tr><td>odel La<br/>Maxim<br/>Model S Response<br/>Distributio<br/>Distributio<br/>Dispersion<br/>Measure<br/>Number of<br/>Dispersion<br/>Measure<br/>Number of<br/>Dispersion<br/>Measure<br/>Number of<br/>Bic<br/>Alco<br/>Generalize<br/>Parame<br/>Valida<br/>Generalize<br/>Valida<br/>Sico<br/>Sico<br/>Sico<br/>Sico<br/>Sico<br/>Sico<br/>Sico<br/>Sico</td><td>unch<br/>um Likelii<br/>ummary<br/>n<br/>Method<br/>iel Link<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>froms<br/>frows<br/>quencies<br/>nood<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from</td><td>Initial State           Ilightning.end           Negative Bin           Maximum Lik           None           Log           Identity           138109.6           33276552.15           2762853           0.0210318           tter for Ori           Std Error           7.9922-6           1.1986-6           1.3137e-5           0.0000107           1.5783-5           1.4246e-5           1.4246e-5           1.4246e-5           1.2268-5           1.4246e-5           1.4246e-5           1.2268-6           1.4246e-5           1.4246e-5           1.0301e-5           1.4227e-5           1.4226-5           1.4226-5           1.4226-5           1.2268-6           9.7803-6           9.7803-6           9.7803-6</td><td>ginal Predic<br/>elihood<br/>ginal Predic<br/>Wald<br/>ChSquare<br/>13.7768131<br/>45.841651<br/>12.190022<br/>13.574016<br/>5.2155036<br/>11.730915<br/>16.139521<br/>0.3023108<br/>1.990905<br/>8.032402<br/>0.302318<br/>2.199320<br/>3.5.288816<br/>6.3951681<br/>0.1833453<br/>0.025138<br/>2.119320<br/>1.59320<br/>1.59320<br/>2.515582<br/>0.023182<br/>2.159320<br/>1.102075<br/>1.59320<br/>2.515582<br/>2.159320<br/>2.515582<br/>2.159320<br/>2.515582<br/>2.159320<br/>2.515582<br/>2.159320<br/>2.515582<br/>2.159320<br/>2.515582<br/>2.159320<br/>2.515582<br/>2.159320<br/>2.515582<br/>2.159320<br/>2.515582<br/>2.159320<br/>2.515582<br/>2.159320<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.51582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582<br/>2.515582</td><td>tors<br/>Prob
&gt;<br/>ChiSquare<br/>0.0747<br/>0001*<br/>0.0005*<br/>0.0002*<br/>0.0024*<br/>0.0224<br/>0.0224<br/>0.0224<br/>0.0224<br/>0.0246*<br/>0001*<br/>0.0246*<br/>0.0214<br/>0.01454<br/>0.01454<br/>0.01454<br/>0.01454<br/>0.01454<br/>0.01454<br/>0.01454<br/>0.01454<br/>0.01454<br/>0.01454<br/>0.01454<br/>0.01454<br/>0.01454<br/>0.0014<br/>0.0014<br/>0.0005*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.0025*<br/>0.001*<br/>0.001*<br/>0.001*<br/>0.001*<br/>0.001*<br/>0.001*<br/>0.001*<br/>0.001*<br/>0.001*<br/>0.001*<br/>0.001*<br/>0.027*<br/>0.023*<br/>0.027*<br/>0.023*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.025*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.025*<br/>0.025*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*<br/>0.045*</td><td>Lower 95%<br/>-1.419e-6<br/>-0.000105<br/>-6.487e-5<br/>2.6121e5<br/>-4.539e-5<br/>2.2022e5<br/>-4.539e-5<br/>2.2022e5<br/>-1.549e-5<br/>-1.2454e5<br/>-5.944e-5<br/>-5.944e-5<br/>-5.10244e-5<br/>-5.944e-5<br/>-5.10244e-5<br/>-5.1454e-5<br/>-5.2679e-5<br/>-3.817e5<br/>-0.000012<br/>-2.228e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.000012<br/>-2.238e-5<br/>-0.00012<br/>-2.238e-5<br/>-0.00012<br/>-2.238e-5<br/>-0.00012<br/>-2.238e-5<br/>-0.00012<br/>-2.238e-5<br/>-0.00012<br/>-2.238e-5<br/>-0.00012<br/>-2.238e-5<br/>-0.00012<br/>-2.238e-5<br/>-0.00012<br/>-2.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.2454e-5<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-0.00012<br/>-</td><td>Upper 95%<br/>0.0000299<br/>5.766-5<br/>9.2255-5<br/>9.2255-5<br/>3.247-5<br/>3.463-6<br/>0.000052<br/>6.3863-5<br/>0.000038<br/>-0.000052<br/>6.3863-5<br/>0.000038<br/>-0.000038<br/>8.7748-6<br/>5.3464-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2477-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2487-5<br/>5.2477-5<br/>5.2487-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.2477-5<br/>5.</td></tr> <tr><td>odel La<br/>Maxim<br/>Model S Response<br/>Distributio<br/>Estimation Mean Mdc<br/>Joispersion Mean<br/>Mean Mdc<br/>Number or Sum of Fra-<br/>Uspersion Mean<br/>Number or Sum of Fra-<br/>Number or Sum of Fra-<br/>Number or Sum of Fra-<br/>Sum of Sum of Sum of Sum of Sum<br/>of Sum of Sum of Sum of Sum<br/>of Sum of Sum of Sum of Sum<br/>of Sum of Sum of Sum of Sum of Sum<br/>of Sum of Sum of Sum of Sum of Sum<br/>of Sum of Sum of Sum of Sum of Sum<br/>of Sum of Sum of Sum of Sum of Sum<br/>of Sum of Sum of Sum of Sum of Sum<br/>of Sum of Sum of Sum of Sum of Sum of Sum<br/>of Sum of Sum of Sum of Sum of Sum of Sum<br/>of Sum of Sum<br/>of Sum of Sum<br/>of Sum of Sum o</td><td>unch<br/>um Likelii<br/>um mary<br/>Method<br/>Method<br/>Jel Link<br/>Model Link<br/>frows<br/>vquencies<br/>nood<br/>d RSquare<br/>ter
Estimate<br/>1.42455-<br/>8.115e5<br/>8.115e5<br/>8.115e5<br/>6.6224e5<br/>9.2442e5<br/>6.6324e5<br/>5.9188e5<br/>6.6224e5<br/>9.2442e5<br/>6.6324e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>6.62245<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>6.62245<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>6.62245<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>6.62245<br/>5.9188e5<br/>5.9188e5<br/>6.62245<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.9188e5<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885<br/>5.917885</td><td>Instant           lightning.end           Negative Bini           Maximum Lik           None           Log           Identity           24080           1381096           327655215           2762853           0.0210318           ttes for Ori           Std Error           7.9922-6           1.8871-5           1.8871-5           1.8871-5           1.8871-5           1.8872-5           1.4246-5           1.2368-5           1.2268-5           1.2268-5           1.2363-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           0.000107           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5</td><td>ginal Predic<br/>elihood<br/>ginal Predic<br/>Wald<br/>ChiSquare<br/>3.1766131<br/>3.574016<br/>5.2155036<br/>11.730915<br/>3.574016<br/>5.2155036<br/>11.359716<br/>0.3022108<br/>1.3574016<br/>5.2155036<br/>0.324502<br/>3.528816<br/>0.1834453<br/>0.02591681<br/>0.1834453<br/>0.02591681<br/>0.1839453<br/>0.0239182<br/>1.1020795<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387405<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.025656<br/>0.025</td><td>tors<br/>Prob &gt;<br/>ChiSquare<br/>0.0747<br/>0.0005*<br/>0.0005*<br/>0.0005*<br/>0.00024*<br/>0.0006*<br/>0.0006*<br/>0.0006*<br/>0.0006*<br/>0.0006*<br/>0.0006*<br/>0.0014*<br/>0.0014*<br/>0.0114*<br/>0.6680<br/>0.8740<br/>0.15233<br/>0.4733<br/>0.4073<br/>0.0017*</td><td>Lower 95%<br/>-1.419-6<br/>-0.000105<br/>-6.487-6<br/>-2.00215<br/>-1.549-5<br/>-3.1275-5<br/>-2.022-5<br/>-3.1275-5<br/>-1.549-5<br/>-3.1275-5<br/>-3.1275-5<br/>-3.1275-5<br/>-3.1275-5<br/>-3.1275-5<br/>-3.0393-6<br/>-5.944-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-5.948-5<br/>-7.9478-5<br/>-7.9478-5<br/>-7.9478-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-5<br/>-7.948-7</td><td>Upper 95%<br/>0.000299<br/>-5.766-5<br/>-1.822-5<br/>9.2255-5<br/>0.000124<br/>-3.463-6<br/>0.000068<br/>-0.000068<br/>-0.000068<br/>-0.000068<br/>-0.000028<br/>8.774-8-6<br/>-0.000038<br/>-7.438-5<br/>-0.000028<br/>8.774-5<br/>-0.000028<br/>-1.5464-5<br/>2.2877-5<br/>9.5141-6<br/>-3.163-7<br/>-1.1423-5<br/>2.2877-5<br/>9.5141-6<br/>-3.163-7<br/>-1.1423-5<br/>2.773-5<br/>5.0258-5<br/>2.7273-5</td></tr> <tr><td>odel La<br/>Maxim<br/>Model S
Response<br/>Distributio<br/>Distributio<br/>Dispersion<br/>Mean More<br/>Number of<br/>Bio<br/>Alco<br/>Generalize<br/>Parame<br/>Parame<br/>Term<br/>Alco<br/>Generalize<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Stato<br/>Sta</td><td>unch           um Likelii           ummary           n           Method           Hethod           Jel Link           Model Link           frows           quencies           nood           d RSquare           ter Estimat           1.42452           -8.11525           5.918865           5.918865           -0.34165           -0.33265           -1.424265           -1.76765           3.597825           -1.781766           -1.7817766           -1.781776</td><td>Initial State           Ilightning.end           Negative Bin.           Maximum Lik           None           Log           Identity           1381096           32765523           2762853           0.0210318           tter For Ori           Std Error           7.9922-65           1.0802-55           1.0802-55           1.4277-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.4287-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.4287-55           1.42846-55           1.4287-55           1.4287-55           1.4287-55           1.0631-55           8.62266-66           1.0582-55           1.0582-55           1.0582-55           1.0582-55</td><td>ginal Predic<br/>elihood<br/>ginal Predic<br/>biood<br/>ginal Predic<br/>Vala<br/>ChiSquare<br/>3.176613<br/>3.176613<br/>3.574016<br/>5.2155036<br/>1.3574016<br/>5.2155036<br/>1.3574016<br/>5.2155036<br/>1.395210<br/>0.3023106<br/>5.28551681<br/>0.3023106<br/>5.28551681<br/>0.1839433<br/>0.0253382<br/>0.013338<br/>2.219338<br/>0.025338<br/>0.0253380<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387305<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.387405<br/>0.0238182<br/>1.397405<br/>0.0238182<br/>1.397405<br/>0.02381805<br/>0.02581805<br/>0.02581805<br/>0.02581805<br/>0.02581805<br/>0.0258180</td><td>tors<br/>Prob
&gt;<br/>ChiSquare<br/>0.0747<br/>&lt;.0001*<br/>0.0005*<br/>0.0002*<br/>0.0024*<br/>0.00045*<br/>0.00045*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0027*<br/>0.0027*<br/>0.0014*<br/>0.0014*<br/>0.0027*<br/>0.0027*<br/>0.0024*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0027*<br/>0.0027*<br/>0.0024*<br/>0.0014*<br/>0.0014*<br/>0.0027*<br/>0.0027*<br/>0.0027*<br/>0.0027*<br/>0.0027*<br/>0.0027*<br/>0.0027*<br/>0.0027*<br/>0.0027*<br/>0.0027*<br/>0.0027*<br/>0.0027*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0015*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0017*<br/>0.0014*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.0017*<br/>0.00</td><td>Lower 95%<br/>-1.419e6<br/>-0.000105<br/>-0.427e5<br/>2.6121e5<br/>-1.549e5<br/>-2.2022e5<br/>-1.549e5<br/>-2.2022e5<br/>-3.855e5<br/>-1.2454e5<br/>-2.2024e5<br/>-3.817e5<br/>-0.000103<br/>8.0393e6<br/>-5.944e5<br/>-2.2047e5<br/>-3.817e5<br/>-0.00011<br/>-2.2679e5<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.00011<br/>-3.817e5<br/>-0.000115<br/>-0.000115<br/>-0.000115<br/>-0.000115<br/>-0.000115<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.00015<br/>-0.000015<br/>-0.000015<br/>-0.000015<br/>-0.00005<br/>-0.00005<br/>-0.00005<br/>-0.00005<br/>-0.00005<br/>-0.00005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005<br/>-0.0005</td><td>Upper 95%<br/>0.000029<br/>5.766-5<br/>1.822-5<br/>9.2255-5<br/>3.247-5<br/>2.2536-5<br/>0.000038<br/>-0.000028<br/>-0.000028<br/>-0.000028<br/>-0.000028<br/>-0.000028<br/>-0.000038<br/>8.7748-6<br/>5.2487-6<br/>5.15464-5<br/>2.2877-5<br/>5.15464-5<br/>2.2877-5<br/>9.51141-6<br/>-3.1638-7<br/>1.1423-5<br/>5.21273-5<br/>6.0258-5<br/>0.000128</td></tr> <tr><td>odel La<br/>Maxim<br/>Model S Distributio<br/>Estimation<br/>bispersion Mean Moc<br/>Sum of Fre<br/>Loglikelin<br/>Sum of Fre<br/>Loglikelin<br/>Sum of Fre<br/>Loglikelin<br/>Sum of Fre<br/>Sum of Fre<br/>S</td><td>unch<br/>um Likelii<br/>ummary<br/>n<br/>Method<br/>Method<br/>iel Link<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>quencies<br/>nood<br/>frows<br/>frows<br/>frows<br/>frows<br/>frows<br/>frows<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from<br/>from</td><td>Initial State           Iightning.end           Negative Bin.           Maximum Lik           None           Log           Identity           24080           1381096           2762853           0.210318           tter For Ori           Std Error           7.9922-6           1.1986-5           0.0000107           1.5871-5           1.279.25           1.48276-5           1.23845-5           1.23845-5           1.24276-5           1.2678-5           1.2682-5           1.2682-5           1.2268-5           1.2268-5           1.23845-5           1.0631-5           1.2268-5           1.0631-5           1.2268-5           1.0631-5           1.2268-5           0.00017           1.2268-5           1.0631-5           1.2268-5          
1.0631-5           1.2268-5           0.00012           0.00012           1.058-5           1.058-5           1.058-5</td><td>ginal Predic<br/>elihood<br/>ginal Predic<br/>Wald<br/>ChiSquare<br/>1.1,756131<br/>45,841651<br/>12,190022<br/>13,37768131<br/>45,841651<br/>12,190022<br/>13,377981<br/>13,374016<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,2155036<br/>11,7309150<br/>5,215505<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7309150<br/>11,7300150<br/>11,7300150<br/>11,7300150<br/>11,7300</td><td>tors<br/>Prob &gt;<br/>ChiSquare<br/>0.0747<br/>&lt;.0001*<br/>0.0005*<br/>0.0002*<br/>0.0024*<br/>0.00045*<br/>0.00045*<br/>0.00045*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0014*<br/>0.0</td><td>Lower 95%<br/>-1.419=6<br/>-0.000105<br/>-6.487e5<br/>2.6121e5<br/>-9.434e5<br/>-1.549e5<br/>-2.2022e5<br/>-9.434e5<br/>-1.549e5<br/>-2.2022e5<br/>-3.817e5<br/>-0.000103<br/>8.0392e6<br/>-5.944e5<br/>-2.2047e5<br/>-3.817e5<br/>-0.00011<br/>1.389e5<br/>-5.544e5<br/>-5.1454e5<br/>-0.000013<br/>-7.247e5<br/>-3.817e5<br/>-0.00011<br/>1.3899e5<br/>-0.6526e5<br/>-3.337e5<br/>-0.000012<br/>-0.00011<br/>-0.6526e5<br/>-3.3364e5<br/>-0.000012<br/>-0.00011<br/>-0.6526e5<br/>-3.3364e5<br/>-0.000012<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.0001<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.00011<br/>-0.0001</td><td>Upper
95%<br/>0.0000299<br/>5.766-5<br/>9.2255-5<br/>9.2255-5<br/>9.2354-5<br/>9.2354-5<br/>9.2354-5<br/>9.2354-5<br/>9.2474-5<br/>9.2484-5<br/>0.000038<br/>-0.000028<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.000038<br/>-0.24845-5<br/>-0.24845-5<br/>1.546445-<br/>2.287745-5<br/>9.511416-<br/>5.228775-5<br/>9.511416-<br/>5.228775-5<br/>9.511416-<br/>5.22875-5<br/>0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.0000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000108<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0.000038<br/>-1.1478-5<br/>-0</td></tr> <tr><td>odel La<br/>Maxim<br/>Model S Response<br/>Distributio<br/>Estimation Mean Mdc<br/>Ubispersion Mean<br/>Mean Mdc<br/>Number or Sum of Fra-<br/>Using Mean<br/>Number or Sum of Fra-<br/>Sum of Fra-<br/>Number or Sum of Fra-<br/>Sum of Sum of Sum of Sum of Sum<br/>Sum of Sum of Sum of Sum of Sum<br/>Sum of Sum of Sum of Sum of Sum<br/>Sum of Sum of Sum<br/>Sum of Sum of Sum of Sum</td><td>unch<br/>um Likelit<br/>um mary<br/>n<br/>Method<br/>Method<br/>Helink<br/>Model Link<br/>frows<br/>rguencies<br/>nood<br/>Parameters<br/>d RSquare<br/>ter Estimate<br/>1.4245e5<br/>-8.115e5<br/>-8.115e5<br/>-8.115e5<br/>-8.415e5<br/>-8.415e5<br/>-8.442e5<br/>5.1482e5<br/>-8.442e5<br/>5.1482e5<br/>-8.442e5<br/>-8.442e5<br/>-8.442e5<br/>-8.442e5<br/>-8.442e5<br/>-8.442e5<br/>-8.442e5<br/>-8.442e5<br/>-8.442e5<br/>-8.442e5<br/>-8.442e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5<br/>-1.784e5</td><td>lightning.end<br/>Negative Bind<br/>Maximum Lik<br/>None<br/>Log<br/>Identity<br/>59899<br/>24080<br/>33<br/>276255215<br/>276255215<br/>276255215<br/>2762552<br/>30.0210318<br/><b>std Error</b><br/>7.9922-6<br/>1.1986-5<br/>0.0000107<br/>1.5031e5<br/>1.48137e5<br/>1.48137e5<br/>1.48246e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.427e5<br/>2.4281e5<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.42845<br/>1.428451.42845<br/>1.42845<br/>1.428451.42845<br/>1.428451.42845<br/>1.428451.42845<br/>1.4285<br/>1.428551.4285</td><td>ginal 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Predic<br/>Waid<br/>ChiSquare<br/>ChiSquare<br/>ChiSquare<br/>ChiSquare<br/>ChiSquare<br/>ChiSquare<br/>ChiSquare<br/>ChiSquare<br/>ChiSquare<br/>13.574016<br/>5.2155036<br/>1.1730915<br/>16.139521<br/>0.3023108<br/>1.90914505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.0324505<br/>8.032505<br/>8.0324505<br/>8.0324505<br/>8.032505<br/>8.0324505<br/>8.032505<br/>8.0324505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.032505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03505<br/>8.03</td><td>tors<br/>Prob &gt;<br/>ChiSquare<br/>0.0747<br/>&lt;.0001*<br/>0.0005*<br/>0.0005*<br/>0.0002*<br/>0.0024*<br/>0.0005*<br/>0.0005*<br/>0.0002*<br/>0.0001*<br/>0.0014*<br/>0.0014*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.00114*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.0001*<br/>0.</td><td>Lower 95%<br/>-1.419e6<br/>-0.00016<br/>-6.487e5<br/>-2.6121e5<br/>-3.534e5<br/>-2.022e5<br/>-4.539e5<br/>-2.022e5<br/>-3.549e5<br/>-2.022e5<br/>-3.6354e5<br/>-0.000103<br/>8.0939e6<br/>-5.944e5<br/>-2.2424e5<br/>-3.6054e6<br/>-5.144e5<br/>-2.247e5<br/>-3.6054e6<br/>-5.144e5<br/>-2.262e5<br/>-3.817e5<br/>-0.00001<br/>-2.2528e5<br/>-2.262e5<br/>-3.817e5<br/>-0.00001<br/>-2.2528e5<br/>-3.817e5<br/>-0.00001<br/>-2.2528e5<br/>-3.817e5<br/>-0.00001<br/>-2.2528e5<br/>-3.817e5<br/>-0.00001<br/>-2.2528e5<br/>-3.817e5<br/>-0.00001<br/>-2.2528e5<br/>-3.817e5<br/>-0.00001<br/>-2.2528e5<br/>-3.817e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.000001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.000001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00001<br/>-2.2528e5<br/>-0.00</td><td>Upper
95%<br/>0.000029<br/>-5.766e5<br/>-1.822e5<br/>9.2255e5<br/>0.000128<br/>-3.247e5<br/>2.7563e5<br/>-3.247e5<br/>2.7563e5<br/>-0.000032<br/>8.0942e5<br/>-0.000038<br/>0.000028<br/>8.7748e6<br/>-2.438e5<br/>6.2145e5<br/>-2.438e5<br/>6.2145e5<br/>-2.438e5<br/>5.141e6<br/>-2.438e5<br/>5.2.877e5<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7<br/>-3.163e7</td></tr> | ginal Predic<br>elihood<br>ginal Predic<br>Waid<br>ChiSquare<br>3.1768131<br>45.44163<br>12.190022<br>12.307798<br>13.574016<br>5.2155036<br>11.730915<br>16.139521<br>0.3022108<br>1.990420<br>3.2288816<br>6.3951681<br>0.139521<br>0.3022108<br>1.990420<br>3.2288816<br>6.3951681<br>0.139542<br>0.025138<br>2.1199329<br>15.58003<br>4.8461161<br>1.1020795<br>0.023182   | tors<br>Prob ><br>ChiSquare<br>0.0747<br>0.0005*<br>0.0005*<br>0.0002*<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0227<br>0.0214<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0289<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025   | Lower 95%<br>-1.419=6<br>-0.000105<br>-6.487e5<br>-6.487e5<br>-2.022e5<br>-9.434e5<br>-1.549e5<br>-2.022e5<br>-0.000103<br>8.0938e6<br>-5.944e5<br>-2.024e5<br>-3.857e5<br>-3.847e5<br>-3.847e5<br>-3.817e5<br>-3.817e5<br>-3.817e5<br>-3.817e5  
   | Upper 95%<br>0.000029<br>5.7665-5<br>9.2555.0.0001024<br>-3.463-6<br>8.09425-<br>7.9339-6<br>0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.2436-5<br>5.1446-5<br>-2.4376-5<br>5.15464-5<br>-2.4376-5<br>-3.1638-7<br>-3.1638-7   | odel La<br>Maxim<br>Model S Response<br>Distributio<br>Distributio<br>Dispersion<br>Measure<br>Number of<br>Dispersion<br>Measure<br>Number of<br>Dispersion<br>Measure<br>Number of<br>Bic<br>Alco<br>Generalize<br>Parame<br>Valida<br>Generalize<br>Valida<br>Sico<br>Sico<br>Sico<br>Sico<br>Sico<br>Sico<br>Sico<br>Sico | unch<br>um Likelii<br>ummary<br>n<br>Method<br>iel Link<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>froms<br>frows<br>quencies<br>nood<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from | Initial State           Ilightning.end           Negative Bin           Maximum Lik           None           Log           Identity           138109.6           33276552.15           2762853           0.0210318           tter for Ori           Std Error           7.9922-6           1.1986-6           1.3137e-5           0.0000107           1.5783-5           1.4246e-5           1.4246e-5           1.4246e-5           1.2268-5           1.4246e-5           1.4246e-5           1.2268-6           1.4246e-5           1.4246e-5           1.0301e-5           1.4227e-5           1.4226-5           1.4226-5           1.4226-5           1.2268-6           9.7803-6           9.7803-6           9.7803-6 | ginal Predic<br>elihood<br>ginal
Predic<br>Wald<br>ChSquare<br>13.7768131<br>45.841651<br>12.190022<br>13.574016<br>5.2155036<br>11.730915<br>16.139521<br>0.3023108<br>1.990905<br>8.032402<br>0.302318<br>2.199320<br>3.5.288816<br>6.3951681<br>0.1833453<br>0.025138<br>2.119320<br>1.59320<br>1.59320<br>2.515582<br>0.023182<br>2.159320<br>1.102075<br>1.59320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.51582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582 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><br>ChiSquare<br>0.0747<br>0001*<br>0.0005*<br>0.0002*<br>0.0024*<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0246*<br>0001*<br>0.0246*<br>0.0214<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.0014<br>0.0014<br>0.0005*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.027*<br>0.023*<br>0.027*<br>0.023*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.045*<br>0.045*<br>0.045*<br>0.025*<br>0.025*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045* | Lower 95%<br>-1.419e-6<br>-0.000105<br>-6.487e-5<br>2.6121e5<br>-4.539e-5<br>2.2022e5<br>-4.539e-5<br>2.2022e5<br>-1.549e-5<br>-1.2454e5<br>-5.944e-5<br>-5.944e-5<br>-5.10244e-5<br>-5.944e-5<br>-5.10244e-5<br>-5.1454e-5<br>-5.2679e-5<br>-3.817e5<br>-0.000012<br>-2.228e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.000012<br>-2.238e-5<br>-0.00012<br>-2.238e-5<br>-0.00012<br>-2.238e-5<br>-0.00012<br>-2.238e-5<br>-0.00012<br>-2.238e-5<br>-0.00012<br>-2.238e-5<br>-0.00012<br>-2.238e-5<br>-0.00012<br>-2.238e-5<br>-0.00012<br>-2.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.2454e-5<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>-0.00012<br>- | Upper
95%<br>0.0000299<br>5.766-5<br>9.2255-5<br>9.2255-5<br>3.247-5<br>3.463-6<br>0.000052<br>6.3863-5<br>0.000038<br>-0.000052<br>6.3863-5<br>0.000038<br>-0.000038<br>8.7748-6<br>5.3464-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2477-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2477-5<br>5.2487-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5. | odel La<br>Maxim<br>Model S Response<br>Distributio<br>Estimation Mean Mdc<br>Joispersion Mean<br>Mean Mdc<br>Number or Sum of Fra-<br>Uspersion Mean<br>Number or Sum of Fra-<br>Number or Sum of Fra-<br>Number or Sum of Fra-<br>Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum<br>of Sum of Sum<br>of Sum of Sum o | unch<br>um Likelii<br>um mary<br>Method<br>Method<br>Jel Link<br>Model Link<br>frows<br>vquencies<br>nood<br>d RSquare<br>ter 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| Instant           lightning.end           Negative Bini           Maximum Lik           None           Log           Identity           24080           1381096           327655215           2762853           0.0210318           ttes for Ori           Std Error           7.9922-6           1.8871-5           1.8871-5           1.8871-5           1.8871-5           1.8872-5           1.4246-5           1.2368-5           1.2268-5           1.2268-5           1.2363-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           0.000107           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5 | ginal Predic<br>elihood<br>ginal Predic<br>Wald<br>ChiSquare<br>3.1766131<br>3.574016<br>5.2155036<br>11.730915<br>3.574016<br>5.2155036<br>11.359716<br>0.3022108<br>1.3574016<br>5.2155036<br>0.324502<br>3.528816<br>0.1834453<br>0.02591681<br>0.1834453<br>0.02591681<br>0.1839453<br>0.0239182<br>1.1020795<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387405<br>0.0238182<br>1.387305<br>0.0238182<br>1.387405<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.025656<br>0.025 | tors<br>Prob ><br>ChiSquare<br>0.0747<br>0.0005*<br>0.0005*<br>0.0005*<br>0.00024*<br>0.0006*<br>0.0006*<br>0.0006*<br>0.0006*<br>0.0006*<br>0.0006*<br>0.0014*<br>0.0014*<br>0.0114*<br>0.6680<br>0.8740<br>0.15233<br>0.4733<br>0.4073<br>0.0017* | Lower
95%<br>-1.419-6<br>-0.000105<br>-6.487-6<br>-2.00215<br>-1.549-5<br>-3.1275-5<br>-2.022-5<br>-3.1275-5<br>-1.549-5<br>-3.1275-5<br>-3.1275-5<br>-3.1275-5<br>-3.1275-5<br>-3.1275-5<br>-3.0393-6<br>-5.944-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-7.9478-5<br>-7.9478-5<br>-7.9478-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-7 | Upper 95%<br>0.000299<br>-5.766-5<br>-1.822-5<br>9.2255-5<br>0.000124<br>-3.463-6<br>0.000068<br>-0.000068<br>-0.000068<br>-0.000068<br>-0.000028<br>8.774-8-6<br>-0.000038<br>-7.438-5<br>-0.000028<br>8.774-5<br>-0.000028<br>-1.5464-5<br>2.2877-5<br>9.5141-6<br>-3.163-7<br>-1.1423-5<br>2.2877-5<br>9.5141-6<br>-3.163-7<br>-1.1423-5<br>2.773-5<br>5.0258-5<br>2.7273-5 | odel La<br>Maxim<br>Model S Response<br>Distributio<br>Distributio<br>Dispersion<br>Mean More<br>Number of<br>Bio<br>Alco<br>Generalize<br>Parame<br>Parame<br>Term<br>Alco<br>Generalize<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Sta | unch           um Likelii           ummary           n           Method           Hethod           Jel Link           Model Link           frows           quencies           nood           d RSquare           ter Estimat           1.42452           -8.11525           5.918865           5.918865           -0.34165           -0.33265           -1.424265           -1.76765           3.597825           -1.781766           -1.7817766           -1.781776 | Initial State           Ilightning.end           Negative Bin.           Maximum Lik           None           Log           Identity           1381096           32765523           2762853           0.0210318           tter For Ori           Std Error           7.9922-65           1.0802-55           1.0802-55           1.4277-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.4287-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.4287-55           1.42846-55           1.4287-55           1.4287-55           1.4287-55           1.0631-55           8.62266-66           1.0582-55           1.0582-55           1.0582-55           1.0582-55 | ginal Predic<br>elihood<br>ginal Predic<br>biood<br>ginal
Predic<br>Vala<br>ChiSquare<br>3.176613<br>3.176613<br>3.574016<br>5.2155036<br>1.3574016<br>5.2155036<br>1.3574016<br>5.2155036<br>1.395210<br>0.3023106<br>5.28551681<br>0.3023106<br>5.28551681<br>0.1839433<br>0.0253382<br>0.013338<br>2.219338<br>0.025338<br>0.0253380<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.397405<br>0.0238182<br>1.397405<br>0.02381805<br>0.02581805<br>0.02581805<br>0.02581805<br>0.02581805<br>0.0258180 | tors<br>Prob ><br>ChiSquare<br>0.0747<br><.0001*<br>0.0005*<br>0.0002*<br>0.0024*<br>0.00045*<br>0.00045*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0027*<br>0.0027*<br>0.0014*<br>0.0014*<br>0.0027*<br>0.0027*<br>0.0024*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0027*<br>0.0027*<br>0.0024*<br>0.0014*<br>0.0014*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0015*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0017*<br>0.0014*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.00 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95%<br>-1.419e6<br>-0.000105<br>-0.427e5<br>2.6121e5<br>-1.549e5<br>-2.2022e5<br>-1.549e5<br>-2.2022e5<br>-3.855e5<br>-1.2454e5<br>-2.2024e5<br>-3.817e5<br>-0.000103<br>8.0393e6<br>-5.944e5<br>-2.2047e5<br>-3.817e5<br>-0.00011<br>-2.2679e5<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.000115<br>-0.000115<br>-0.000115<br>-0.000115<br>-0.000115<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.000015<br>-0.000015<br>-0.000015<br>-0.00005<br>-0.00005<br>-0.00005<br>-0.00005<br>-0.00005<br>-0.00005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005 | Upper 95%<br>0.000029<br>5.766-5<br>1.822-5<br>9.2255-5<br>3.247-5<br>2.2536-5<br>0.000038<br>-0.000028<br>-0.000028<br>-0.000028<br>-0.000028<br>-0.000028<br>-0.000038<br>8.7748-6<br>5.2487-6<br>5.15464-5<br>2.2877-5<br>5.15464-5<br>2.2877-5<br>9.51141-6<br>-3.1638-7<br>1.1423-5<br>5.21273-5<br>6.0258-5<br>0.000128 | odel La<br>Maxim<br>Model S Distributio<br>Estimation<br>bispersion Mean Moc<br>Sum of Fre<br>Loglikelin<br>Sum of Fre<br>Loglikelin<br>Sum of Fre<br>Loglikelin<br>Sum of Fre<br>Sum of Fre<br>S | unch<br>um Likelii<br>ummary<br>n<br>Method<br>Method<br>iel
Link<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>frows<br>frows<br>frows<br>frows<br>frows<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from | Initial State           Iightning.end           Negative Bin.           Maximum Lik           None           Log           Identity           24080           1381096           2762853           0.210318           tter For Ori           Std Error           7.9922-6           1.1986-5           0.0000107           1.5871-5           1.279.25           1.48276-5           1.23845-5           1.23845-5           1.24276-5           1.2678-5           1.2682-5           1.2682-5           1.2268-5           1.2268-5           1.23845-5           1.0631-5           1.2268-5           1.0631-5           1.2268-5           1.0631-5           1.2268-5           0.00017           1.2268-5           1.0631-5           1.2268-5           1.0631-5           1.2268-5           0.00012           0.00012           1.058-5           1.058-5           1.058-5 | ginal Predic<br>elihood<br>ginal Predic<br>Wald<br>ChiSquare<br>1.1,756131<br>45,841651<br>12,190022<br>13,37768131<br>45,841651<br>12,190022<br>13,377981<br>13,374016<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,215505<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7300150<br>11,7300150<br>11,7300150<br>11,7300 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><br>ChiSquare<br>0.0747<br><.0001*<br>0.0005*<br>0.0002*<br>0.0024*<br>0.00045*<br>0.00045*<br>0.00045*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0 | Lower
95%<br>-1.419=6<br>-0.000105<br>-6.487e5<br>2.6121e5<br>-9.434e5<br>-1.549e5<br>-2.2022e5<br>-9.434e5<br>-1.549e5<br>-2.2022e5<br>-3.817e5<br>-0.000103<br>8.0392e6<br>-5.944e5<br>-2.2047e5<br>-3.817e5<br>-0.00011<br>1.389e5<br>-5.544e5<br>-5.1454e5<br>-0.000013<br>-7.247e5<br>-3.817e5<br>-0.00011<br>1.3899e5<br>-0.6526e5<br>-3.337e5<br>-0.000012<br>-0.00011<br>-0.6526e5<br>-3.3364e5<br>-0.000012<br>-0.00011<br>-0.6526e5<br>-3.3364e5<br>-0.000012<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.0001<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.0001 | Upper 95%<br>0.0000299<br>5.766-5<br>9.2255-5<br>9.2255-5<br>9.2354-5<br>9.2354-5<br>9.2354-5<br>9.2354-5<br>9.2474-5<br>9.2484-5<br>0.000038<br>-0.000028<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.24845-5<br>-0.24845-5<br>1.546445-<br>2.287745-5<br>9.511416-<br>5.228775-5<br>9.511416-<br>5.228775-5<br>9.511416-<br>5.22875-5<br>0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.0000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0 | odel La<br>Maxim<br>Model S Response<br>Distributio<br>Estimation Mean Mdc<br>Ubispersion Mean<br>Mean Mdc<br>Number or Sum of Fra-<br>Using Mean<br>Number or Sum of Fra-<br>Sum of Fra-<br>Number or Sum of Fra-<br>Sum of Sum of Sum of Sum of Sum<br>Sum of Sum of Sum of Sum of Sum<br>Sum of Sum of Sum of Sum of Sum<br>Sum of Sum of Sum<br>Sum of Sum of Sum | unch<br>um Likelit<br>um mary<br>n<br>Method<br>Method<br>Helink<br>Model Link<br>frows<br>rguencies<br>nood<br>Parameters<br>d RSquare<br>ter Estimate<br>1.4245e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.415e5<br>-8.415e5<br>-8.442e5<br>5.1482e5<br>-8.442e5<br>5.1482e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5 | lightning.end<br>Negative Bind<br>Maximum Lik<br>None<br>Log<br>Identity<br>59899<br>24080<br>33<br>276255215<br>276255215<br>276255215<br>2762552<br>30.0210318<br><b>std
Error</b><br>7.9922-6<br>1.1986-5<br>0.0000107<br>1.5031e5<br>1.48137e5<br>1.48137e5<br>1.48246e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.428451.42845<br>1.42845<br>1.428451.42845<br>1.428451.42845<br>1.428451.42845<br>1.4285<br>1.428551.4285 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Predic<br>Waid<br>ChiSquare<br>ChiSquare<br>ChiSquare<br>ChiSquare<br>ChiSquare<br>ChiSquare<br>ChiSquare<br>ChiSquare<br>ChiSquare<br>13.574016<br>5.2155036<br>1.1730915<br>16.139521<br>0.3023108<br>1.90914505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.0324505<br>8.032505<br>8.0324505<br>8.0324505<br>8.032505<br>8.0324505<br>8.032505<br>8.0324505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.032505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03505<br>8.03 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><br>ChiSquare<br>0.0747<br><.0001*<br>0.0005*<br>0.0005*<br>0.0002*<br>0.0024*<br>0.0005*<br>0.0005*<br>0.0002*<br>0.0001*<br>0.0014*<br>0.0014*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0. | Lower 95%<br>-1.419e6<br>-0.00016<br>-6.487e5<br>-2.6121e5<br>-3.534e5<br>-2.022e5<br>-4.539e5<br>-2.022e5<br>-3.549e5<br>-2.022e5<br>-3.6354e5<br>-0.000103<br>8.0939e6<br>-5.944e5<br>-2.2424e5<br>-3.6054e6<br>-5.144e5<br>-2.247e5<br>-3.6054e6<br>-5.144e5<br>-2.262e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-2.262e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.000001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.000001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00 | Upper
95%<br>0.000029<br>-5.766e5<br>-1.822e5<br>9.2255e5<br>0.000128<br>-3.247e5<br>2.7563e5<br>-3.247e5<br>2.7563e5<br>-0.000032<br>8.0942e5<br>-0.000038<br>0.000028<br>8.7748e6<br>-2.438e5<br>6.2145e5<br>-2.438e5<br>6.2145e5<br>-2.438e5<br>5.141e6<br>-2.438e5<br>5.2.877e5<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7 |
| ginal Predic<br>elihood<br>ginal Predic<br>Waid<br>ChiSquare<br>3.1768131<br>45.44163<br>12.190022<br>12.307798<br>13.574016<br>5.2155036<br>11.730915<br>16.139521<br>0.3022108<br>1.990420<br>3.2288816<br>6.3951681<br>0.139521<br>0.3022108<br>1.990420<br>3.2288816<br>6.3951681<br>0.139542<br>0.025138<br>2.1199329<br>15.58003<br>4.8461161<br>1.1020795<br>0.023182  | tors<br>Prob ><br>ChiSquare<br>0.0747<br>0.0005*<br>0.0005*<br>0.0002*<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0227<br>0.0214<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0454<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0238<br>0.0277*<br>0.0289<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0287*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.0285*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025   | Lower 95%<br>-1.419=6<br>-0.000105<br>-6.487e5<br>-6.487e5<br>-2.022e5<br>-9.434e5<br>-1.549e5<br>-2.022e5<br>-0.000103<br>8.0938e6<br>-5.944e5<br>-2.024e5<br>-3.857e5<br>-3.847e5<br>-3.847e5<br>-3.817e5<br>-3.817e5<br>-3.817e5<br>-3.817e5   
   
   
   
   
   
   
   
   | Upper 95%<br>0.000029<br>5.7665-5<br>9.2555.0.0001024<br>-3.463-6<br>8.09425-<br>7.9339-6<br>0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.2436-5<br>5.1446-5<br>-2.4376-5<br>5.15464-5<br>-2.4376-5<br>-3.1638-7<br>-3.1638-7   
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| odel La<br>Maxim<br>Model S Response<br>Distributio<br>Distributio<br>Dispersion<br>Measure<br>Number of<br>Dispersion<br>Measure<br>Number of<br>Dispersion<br>Measure<br>Number of<br>Bic<br>Alco<br>Generalize<br>Parame<br>Valida<br>Generalize<br>Valida<br>Sico<br>Sico<br>Sico<br>Sico<br>Sico<br>Sico<br>Sico<br>Sico   | unch<br>um Likelii<br>ummary<br>n<br>Method<br>iel Link<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>froms<br>frows<br>quencies<br>nood<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from  | Initial State           Ilightning.end           Negative Bin           Maximum Lik           None           Log           Identity           138109.6           33276552.15           2762853           0.0210318           tter for Ori           Std Error           7.9922-6           1.1986-6           1.3137e-5           0.0000107           1.5783-5           1.4246e-5           1.4246e-5           1.4246e-5           1.2268-5           1.4246e-5           1.4246e-5           1.2268-6           1.4246e-5           1.4246e-5           1.0301e-5           1.4227e-5           1.4226-5           1.4226-5           1.4226-5           1.2268-6           9.7803-6           9.7803-6           9.7803-6   
   
   
   
   
   
   
   
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Predic<br>Wald<br>ChSquare<br>13.7768131<br>45.841651<br>12.190022<br>13.574016<br>5.2155036<br>11.730915<br>16.139521<br>0.3023108<br>1.990905<br>8.032402<br>0.302318<br>2.199320<br>3.5.288816<br>6.3951681<br>0.1833453<br>0.025138<br>2.119320<br>1.59320<br>1.59320<br>2.515582<br>0.023182<br>2.159320<br>1.102075<br>1.59320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.159320<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.51582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582<br>2.515582 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><br>ChiSquare<br>0.0747<br>0001*<br>0.0005*<br>0.0002*<br>0.0024*<br>0.0224<br>0.0224<br>0.0224<br>0.0224<br>0.0246*<br>0001*<br>0.0246*<br>0.0214<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.01454<br>0.0014<br>0.0014<br>0.0005*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.0025*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.001*<br>0.027*<br>0.023*<br>0.027*<br>0.023*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.025*<br>0.045*<br>0.045*<br>0.045*<br>0.025*<br>0.025*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045*<br>0.045* 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95%<br>0.0000299<br>5.766-5<br>9.2255-5<br>9.2255-5<br>3.247-5<br>3.463-6<br>0.000052<br>6.3863-5<br>0.000038<br>-0.000052<br>6.3863-5<br>0.000038<br>-0.000038<br>8.7748-6<br>5.3464-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2477-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2487-5<br>5.2477-5<br>5.2487-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5.2477-5<br>5. |   |   |   |  |   
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| odel La<br>Maxim<br>Model S Response<br>Distributio<br>Estimation Mean Mdc<br>Joispersion Mean<br>Mean Mdc<br>Number or Sum of Fra-<br>Uspersion Mean<br>Number or Sum of Fra-<br>Number or Sum of Fra-<br>Number or Sum of Fra-<br>Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum of Sum of Sum of Sum of Sum<br>of Sum of Sum<br>of Sum of Sum<br>of Sum of Sum o   | unch<br>um Likelii<br>um mary<br>Method<br>Method<br>Jel Link<br>Model Link<br>frows<br>vquencies<br>nood<br>d RSquare<br>ter Estimate<br>1.42455-<br>8.115e5<br>8.115e5<br>8.115e5<br>6.6224e5<br>9.2442e5<br>6.6324e5<br>5.9188e5<br>6.6224e5<br>9.2442e5<br>6.6324e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>6.62245<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>6.62245<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>6.62245<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>6.62245<br>5.9188e5<br>5.9188e5<br>6.62245<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.9188e5<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885<br>5.917885   | Instant           lightning.end           Negative Bini           Maximum Lik           None           Log           Identity           24080           1381096           327655215           2762853           0.0210318           ttes for Ori           Std Error           7.9922-6           1.8871-5           1.8871-5           1.8871-5           1.8871-5           1.8872-5           1.4246-5           1.2368-5           1.2268-5           1.2268-5           1.2363-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           0.000107           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5           1.2268-5  
   
   
   
   
   
   
   
  | ginal Predic<br>elihood<br>ginal
Predic<br>Wald<br>ChiSquare<br>3.1766131<br>3.574016<br>5.2155036<br>11.730915<br>3.574016<br>5.2155036<br>11.359716<br>0.3022108<br>1.3574016<br>5.2155036<br>0.324502<br>3.528816<br>0.1834453<br>0.02591681<br>0.1834453<br>0.02591681<br>0.1839453<br>0.0239182<br>1.1020795<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387405<br>0.0238182<br>1.387305<br>0.0238182<br>1.387405<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.025656<br>0.025                                 | tors<br>Prob ><br>ChiSquare<br>0.0747<br>0.0005*<br>0.0005*<br>0.0005*<br>0.00024*<br>0.0006*<br>0.0006*<br>0.0006*<br>0.0006*<br>0.0006*<br>0.0006*<br>0.0014*<br>0.0014*<br>0.0114*<br>0.6680<br>0.8740<br>0.15233<br>0.4733<br>0.4073<br>0.0017*  | Lower 95%<br>-1.419-6<br>-0.000105<br>-6.487-6<br>-2.00215<br>-1.549-5<br>-3.1275-5<br>-2.022-5<br>-3.1275-5<br>-1.549-5<br>-3.1275-5<br>-3.1275-5<br>-3.1275-5<br>-3.1275-5<br>-3.1275-5<br>-3.0393-6<br>-5.944-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-5.948-5<br>-7.9478-5<br>-7.9478-5<br>-7.9478-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-5<br>-7.948-7  | Upper 95%<br>0.000299<br>-5.766-5<br>-1.822-5<br>9.2255-5<br>0.000124<br>-3.463-6<br>0.000068<br>-0.000068<br>-0.000068<br>-0.000068<br>-0.000028<br>8.774-8-6<br>-0.000038<br>-7.438-5<br>-0.000028<br>8.774-5<br>-0.000028<br>-1.5464-5<br>2.2877-5<br>9.5141-6<br>-3.163-7<br>-1.1423-5<br>2.2877-5<br>9.5141-6<br>-3.163-7<br>-1.1423-5<br>2.773-5<br>5.0258-5<br>2.7273-5   
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| odel La<br>Maxim<br>Model S Response<br>Distributio<br>Distributio<br>Dispersion<br>Mean More<br>Number of<br>Bio<br>Alco<br>Generalize<br>Parame<br>Parame<br>Term<br>Alco<br>Generalize<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Stato<br>Sta | unch           um Likelii           ummary           n           Method           Hethod           Jel Link           Model Link           frows           quencies           nood           d RSquare           ter Estimat           1.42452           -8.11525           5.918865           5.918865           -0.34165           -0.33265           -1.424265           -1.76765           3.597825           -1.781766           -1.7817766           -1.781776   | Initial State           Ilightning.end           Negative Bin.           Maximum Lik           None           Log           Identity           1381096           32765523           2762853           0.0210318           tter For Ori           Std Error           7.9922-65           1.0802-55           1.0802-55           1.4277-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.4287-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.42846-55           1.4287-55           1.42846-55           1.4287-55           1.4287-55           1.4287-55           1.0631-55           8.62266-66           1.0582-55           1.0582-55           1.0582-55           1.0582-55   
   
   
   
   
   
   
   
   | ginal Predic<br>elihood<br>ginal Predic<br>biood<br>ginal
Predic<br>Vala<br>ChiSquare<br>3.176613<br>3.176613<br>3.574016<br>5.2155036<br>1.3574016<br>5.2155036<br>1.3574016<br>5.2155036<br>1.395210<br>0.3023106<br>5.28551681<br>0.3023106<br>5.28551681<br>0.1839433<br>0.0253382<br>0.013338<br>2.219338<br>0.025338<br>0.0253380<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387305<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.387405<br>0.0238182<br>1.397405<br>0.0238182<br>1.397405<br>0.02381805<br>0.02581805<br>0.02581805<br>0.02581805<br>0.02581805<br>0.0258180                                    | tors<br>Prob ><br>ChiSquare<br>0.0747<br><.0001*<br>0.0005*<br>0.0002*<br>0.0024*<br>0.00045*<br>0.00045*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0027*<br>0.0027*<br>0.0014*<br>0.0014*<br>0.0027*<br>0.0027*<br>0.0024*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0027*<br>0.0027*<br>0.0024*<br>0.0014*<br>0.0014*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0027*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0015*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0017*<br>0.0014*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.0017*<br>0.00   | Lower 95%<br>-1.419e6<br>-0.000105<br>-0.427e5<br>2.6121e5<br>-1.549e5<br>-2.2022e5<br>-1.549e5<br>-2.2022e5<br>-3.855e5<br>-1.2454e5<br>-2.2024e5<br>-3.817e5<br>-0.000103<br>8.0393e6<br>-5.944e5<br>-2.2047e5<br>-3.817e5<br>-0.00011<br>-2.2679e5<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.00011<br>-3.817e5<br>-0.000115<br>-0.000115<br>-0.000115<br>-0.000115<br>-0.000115<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.00015<br>-0.000015<br>-0.000015<br>-0.000015<br>-0.00005<br>-0.00005<br>-0.00005<br>-0.00005<br>-0.00005<br>-0.00005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005<br>-0.0005   | Upper 95%<br>0.000029<br>5.766-5<br>1.822-5<br>9.2255-5<br>3.247-5<br>2.2536-5<br>0.000038<br>-0.000028<br>-0.000028<br>-0.000028<br>-0.000028<br>-0.000028<br>-0.000038<br>8.7748-6<br>5.2487-6<br>5.15464-5<br>2.2877-5<br>5.15464-5<br>2.2877-5<br>9.51141-6<br>-3.1638-7<br>1.1423-5<br>5.21273-5<br>6.0258-5<br>0.000128   
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| odel La<br>Maxim<br>Model S Distributio<br>Estimation<br>bispersion Mean Moc<br>Sum of Fre<br>Loglikelin<br>Sum of Fre<br>Loglikelin<br>Sum of Fre<br>Loglikelin<br>Sum of Fre<br>Sum of Fre<br>S   | unch<br>um Likelii<br>ummary<br>n<br>Method<br>Method<br>iel Link<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>quencies<br>nood<br>frows<br>frows<br>frows<br>frows<br>frows<br>frows<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from<br>from   | Initial State           Iightning.end           Negative Bin.           Maximum Lik           None           Log           Identity           24080           1381096           2762853           0.210318           tter For Ori           Std Error           7.9922-6           1.1986-5           0.0000107           1.5871-5           1.279.25           1.48276-5           1.23845-5           1.23845-5           1.24276-5           1.2678-5           1.2682-5           1.2682-5           1.2268-5           1.2268-5           1.23845-5           1.0631-5           1.2268-5           1.0631-5           1.2268-5           1.0631-5           1.2268-5           0.00017           1.2268-5           1.0631-5           1.2268-5           1.0631-5           1.2268-5           0.00012           0.00012           1.058-5           1.058-5           1.058-5   
   
   
   
   
   
   
   
   | ginal Predic<br>elihood<br>ginal Predic<br>Wald<br>ChiSquare<br>1.1,756131<br>45,841651<br>12,190022<br>13,37768131<br>45,841651<br>12,190022<br>13,377981<br>13,374016<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,2155036<br>11,7309150<br>5,215505<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7309150<br>11,7300150<br>11,7300150<br>11,7300150<br>11,7300   | tors<br>Prob
><br>ChiSquare<br>0.0747<br><.0001*<br>0.0005*<br>0.0002*<br>0.0024*<br>0.00045*<br>0.00045*<br>0.00045*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0014*<br>0.0   | Lower 95%<br>-1.419=6<br>-0.000105<br>-6.487e5<br>2.6121e5<br>-9.434e5<br>-1.549e5<br>-2.2022e5<br>-9.434e5<br>-1.549e5<br>-2.2022e5<br>-3.817e5<br>-0.000103<br>8.0392e6<br>-5.944e5<br>-2.2047e5<br>-3.817e5<br>-0.00011<br>1.389e5<br>-5.544e5<br>-5.1454e5<br>-0.000013<br>-7.247e5<br>-3.817e5<br>-0.00011<br>1.3899e5<br>-0.6526e5<br>-3.337e5<br>-0.000012<br>-0.00011<br>-0.6526e5<br>-3.3364e5<br>-0.000012<br>-0.00011<br>-0.6526e5<br>-3.3364e5<br>-0.000012<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.0001<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.00011<br>-0.0001  | Upper 95%<br>0.0000299<br>5.766-5<br>9.2255-5<br>9.2255-5<br>9.2354-5<br>9.2354-5<br>9.2354-5<br>9.2354-5<br>9.2474-5<br>9.2484-5<br>0.000038<br>-0.000028<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.000038<br>-0.24845-5<br>-0.24845-5<br>1.546445-<br>2.287745-5<br>9.511416-<br>5.228775-5<br>9.511416-<br>5.228775-5<br>9.511416-<br>5.22875-5<br>0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.0000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000108<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0.000038<br>-1.1478-5<br>-0 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| odel La<br>Maxim<br>Model S Response<br>Distributio<br>Estimation Mean Mdc<br>Ubispersion Mean<br>Mean Mdc<br>Number or Sum of Fra-<br>Using Mean<br>Number or Sum of Fra-<br>Sum of Fra-<br>Number or Sum of Fra-<br>Sum of Sum of Sum of Sum of Sum<br>Sum of Sum of Sum of Sum of Sum<br>Sum of Sum of Sum of Sum of Sum<br>Sum of Sum of Sum<br>Sum of Sum of Sum   | unch<br>um Likelit<br>um mary<br>n<br>Method<br>Method<br>Helink<br>Model Link<br>frows<br>rguencies<br>nood<br>Parameters<br>d RSquare<br>ter Estimate<br>1.4245e5<br>-8.115e5<br>-8.115e5<br>-8.115e5<br>-8.415e5<br>-8.415e5<br>-8.442e5<br>5.1482e5<br>-8.442e5<br>5.1482e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-8.442e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5<br>-1.784e5  | lightning.end<br>Negative Bind<br>Maximum Lik<br>None<br>Log<br>Identity<br>59899<br>24080<br>33<br>276255215<br>276255215<br>276255215<br>2762552<br>30.0210318<br><b>std Error</b><br>7.9922-6<br>1.1986-5<br>0.0000107<br>1.5031e5<br>1.48137e5<br>1.48137e5<br>1.48246e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.427e5<br>2.4281e5<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.42845<br>1.428451.42845<br>1.42845<br>1.428451.42845<br>1.428451.42845<br>1.428451.42845<br>1.4285<br>1.428551.4285 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><br>ChiSquare<br>0.0747<br><.0001*<br>0.0005*<br>0.0005*<br>0.0002*<br>0.0024*<br>0.0005*<br>0.0005*<br>0.0002*<br>0.0001*<br>0.0014*<br>0.0014*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.00114*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0.0001*<br>0. 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95%<br>-1.419e6<br>-0.00016<br>-6.487e5<br>-2.6121e5<br>-3.534e5<br>-2.022e5<br>-4.539e5<br>-2.022e5<br>-3.549e5<br>-2.022e5<br>-3.6354e5<br>-0.000103<br>8.0939e6<br>-5.944e5<br>-2.2424e5<br>-3.6054e6<br>-5.144e5<br>-2.247e5<br>-3.6054e6<br>-5.144e5<br>-2.262e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-2.262e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-3.817e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.000001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.000001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00001<br>-2.2528e5<br>-0.00   | Upper
95%<br>0.000029<br>-5.766e5<br>-1.822e5<br>9.2255e5<br>0.000128<br>-3.247e5<br>2.7563e5<br>-3.247e5<br>2.7563e5<br>-0.000032<br>8.0942e5<br>-0.000038<br>0.000028<br>8.7748e6<br>-2.438e5<br>6.2145e5<br>-2.438e5<br>6.2145e5<br>-2.438e5<br>5.141e6<br>-2.438e5<br>5.2.877e5<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7<br>-3.163e7     |   |   |   |  |   
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Maximu	um Likelih	lood					
	ummary						
Response		lightning.end					
Distributior Estimation		Negative Bine Maximum Lik					
Validation I	Method	None					
Mean Mod	el Link Model Link	Log					
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	Parameters	33					
BIC		326230.72					
AICc Generalized	RSquare	325959.15 0.0196912					
			ginal Predic	tors			
r	Callman .	Cu I Curra	Wald	Prob >	1 0.5%	U 05%	
Ferm (SC1	Estimate 8.1433e-6	Std Error 8.3922e-6	ChiSquare 0.9415801	ChiSquare 0.3319	-8.305e-6	Upper 95% 0.0000246	
(SC2	-3.977e-5	1.2648e-5	9.8859036	0.0017*	-6.456e-5	-0.000015	
KSC4 KSC5	-4.353e-5		12.839705	0.0003*	-6.734e-5	-1.972e-5	
KSC5 KSC6	-1.054e-5 9.8936e-5		0.3704755 27.553017	0.5427 <.0001*	-4.447e-5 0.000062	0.0000234 0.0001359	
(SC7	-5.561e-5	1.1124e-5	24.99021	<.0001*	-7.741e-5	-3.381e-5	
(SC8	6.9628e-5		20.21285	<.0001*	3.9274e-5	0.0001	
(SC9 (SC10	-6.732e-5 4.6846e-6		16.802978 0.1680941	<.0001* 0.6818	-0.0001 -1.771e-5	-3.513e-5 2.7079e-5	
KSC11	-2.168e-6	1.4253e-5	0.0231318	0.8791	-3.01e-5	2.5767e-5	
(SC12	3.3347e-5		5.1123163	0.0238*	4.4405e-6	6.2254e-5	
KSC13 KSC14	-7.127e-5 4.1737e-5		27.559391 7.8344473	<.0001* 0.0051*	-9.788e-5 1.2511e-5	-4.466e-5 7.0963e-5	
(SC15	-8.101e-6	0.0000254	0.1017745	0.7497	-5.787e-5	4.1669e-5	
KSC16	9.7066e-7		0.0068511	0.9340	-0.000022	2.3955e-5	
(SC17 (SC18	-3.449e-5 -5.22e-5		3.8887995 16.547634	0.0486* <.0001*	-6.877e-5 -7.735e-5	-2.106e-7 -0.000027	
KSC19	6.6365e-6	1.568e-5	0.1791287	0.6721	-0.000024	3.737e-5	
(SC20 (SC21	-2.636e-5 4.0225e-5		2.2181909 8.752355	0.1364 0.0031*	-0.000061 1.3576e-5	8.329e-6 6.6875e-5	
KSC21 KSC22	-8.10225e-5		0.4369206	0.5086	-3.213e-5	0.0875e-5 1.5922e-5	
KSC24	-0.000016		2.1155896	0.1458	-3.764e-5	5.5717e-6	
KSC25 KSC26	-4.351e-6 2.8961e-6		0.2376834 0.0813447	0.6259	-2.184e-5 -0.000017	1.314e-5 0.0000228	
KSC27	3.6247e-5	1.2267e-5	8.7315321	0.0031*	0.0000122	0.0000603	
(SC28 (SC29	9.8421e-5 -0.000024		76.666339 3.2980318	<.0001* 0.0694	7.639e-5 -0.00005	0.0001205 1.9087e-6	
KSC29 KSC30	-0.000024		6.3672684	0.0116*	-0.00005 -6.024e-5	-7.57e-6	
(SC31	0.0000331	9.0578e-6	13.354951	0.0003*	1.5348e-5	5.0854e-5	
(SC32 (SC34	0.0000519 -2.33e-5		7.4425501 2.501848	0.0064*	1.4612e-5 -5.217e-5	8.9181e-5 5.572e-6	
Dispossion	1 2070210	0 0007540	20231226	> 0001*	1 2607130	1 4060500	
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Model Su	um Likelih		1				
<b>Model Su</b> Response Distributior	um Likelih ummary	lightning.end Negative Bind	omial				
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Nodel Su Nesponse Distribution Istimation I Validation I Validation I Valean Mod Dispersion Veasure Number of Sum of Free Sum of Free Su	IIII Likelii IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	lightning.end Negative Binc Maximum Lik None Log Identity 27362 159653.56 33 319644.27 319373.2 0.0206331 tes for Oria	mial elihood ginal Predic Wald ChiSquare	Prob > ChiSquare	Lower 95%	Upper 95%	
Nodel Su Ausponse Distribution istimation Alaidation M Aean Mod Dispersion Measure Number of SiC AlCc Seneralized Paramet SiC SiC SiC	Im Likelii Immary Method Method el Link Model Link rows quencies ood Parameters d RSquare ter Estimate 2.5674e-5	lightning.end Negative Binc Maximum Lik None Log (dentity) 66459 27362 159653.56 33 319644.27 319373.2 0.0206331 <b>tes for Ori</b> <b>Std Error</b> 8.3112e-6	ginal Predic Wald ChiSquare 9.5421484	Prob > ChiSquare 0.0020*	9.384e-6	4.1963e-5	
Nodel Su Response Distribution istimation Alidation I Mean Mod Dispersion Measure LogLikelih Sumber of SIC Seneralized Paramet Ferm SSC1 SSC4	IIII Likelii IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	lightning.end Negative Binc Maximum Lik None Log Identity 66459 27362 15965356 33 31964427 3193732 0.0206331 tes for Oria Std Error 8.3112e6 1.2354e5 1.1756e5	mial elihood ginal Predic Wald ChiSquare	Prob > ChiSquare 0.0020* <.0001* 0.4904			
Vodel Su Response Distribution Sistimation Ialidation I Mean Mod Dispersion Measure Number of Sium of Free LogLikelih Number of SiC LogLikelih Sumber of SiC Seneralized Paramet SiCC SiCS SiCS	Im Likelii Immary Method Method el Link Model Link rows quencies iood Parameters I RSquare ter Estimat Estimate 2.5674e5 2.5674e5 3.6168e5 -8.109e6	lightning.end Maximum Lik None Log Identity 66459 27362 159653.56 33 319644.27 310644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319644.27 319645.27 319655.27 319655.27 319655.27 319655.27 319655.27 319655.27 319655.27 319655.27 319655.27 319655.27 319655.27 319655.27 3196555.27 319655	mial elihood ginal Predic Wald ChiSquare 9-542144 38.299729 0.4757487 4.4249651	Prob > ChiSquare 0.0020* <.0001* 0.4904 0.0354*	9.384e-6 -0.000101 -3.115e-5 2.469e-6	4.1963e-5 -5.224e-5 1.4933e-5 6.9867e-5	
Nodel Su Response Distribution stimation /alidation I dean Mod Dispersion Measure Number of Jum of Free LogLikelih Number of SiC SiC Seneralized Paramet Ferm SiC1 SiC2 SiC4 SiC5 SiC5	Im Likelik Immary Method Method el Link Model Link Model Link rows quencies is Square ter Estimate 2.5674e5 -7.645e5 -8.109e6 3.6168e5 5.1255e5	lightning.end Negative Bino Maximum Lik None Log Identity 66459 27362 215965356 33 31964427 3193732 0.0206331 tes for Ori 8.3112e6 1.2354e5 1.1756e5 0.0000172 1.1756e5	mial elihood ginal Predic Wald ChiSquare 9.5421484 38.299720 0.4757487 4.4249651 7.543854	Prob > ChiSquare 0.0020* <.0001* 0.4904 0.0354* 0.0060*	9.384e-6 -0.000101 -3.115e-5 2.469e-6 1.4679e-5	4.1963e-5 -5.224e-5 1.4933e-5 6.9867e-5 8.783e-5	
Vodel Su Response Distribution Sistimation Alidation I Mean Mod Dispersion Measure Number of Sum of Free Use Light Relin Number of SiC AliCc Beneralized Paramet SiCC SiCC SiCC SiCC SiCC	Im Likelik Immary Method Method el Link Model Link Model Link rows quencies od Parameters d RSquare ter Estimate 2.5674e5 -7.645e5 -8.109e6 3.6168e5 5.1255e5 -0.000051 3.7365e5 -0.000051	lightning.end Maximum Lik None Log Identity 66459 27362 2159653.56 33 319644.27 3193732 0.0206331 tes for Ori Std Error 8.3112e6 1.2354e5 0.0000172 1.1756e5 0.0000172 1.1756e5 0.0000172 1.1756e5 1.115e5 1.115e5	mial elihood ginal Predic Wald ChiSquare 9-542144 38.299729 0.4757487 4.4249651	Prob > ChiSquare 0.0020* <.0001* 0.4904 0.0354*	9.384e-6 -0.000101 -3.115e-5 2.469e-6	4.1963e-5 -5.224e-5 1.4933e-5 6.9867e-5	
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Model Su Response Distribution stimation Validation In Vean Mod Dispersion Measure Number of Number of Su LogLikelih Number of Su Seneralizec Paramet Ferm SSC1 SSC4 SSC5 SSC6 SSC7 SSC8 SSC7 SSC8 SSC9 SSC10	Im Likelik Immary Method Method el Link Model Link Model Link Model Link rows quencies iood Parameters I RSquare ter Estimate 2.5674-5 -7.645-5 -8.109-6 3.6168-5 -9.109-6 3.7365-5 -8.109-6 -0.000051 3.7365-5 -8.148-5 -1.07	lightning.end Maximum Lik None Log Identity 66459 27362 2159653.56 313644.27 319542.7 319547.7319557.7 319557.7 319557.7 319557.	mial elihood ginal Predic Waid ChiSquare 9.5421424 38.29720 4.4249651 7.5436432 0.60569451 2.4.956002 0.8859758	Prob > ChiSquare 0.0020* <.0001* 0.4904 0.0354* 0.0060* <.0001* 0.0139* <.0001* 0.3466	9.384e6 -0.000101 -3.115e5 2.469e6 1.4679e5 -7.279e5 7.6082e6 -0.000113 -3.321e5	4.1963e-5 -5.224e-5 1.4933e-5 6.9867e-5 8.783e-5 -0.000029 6.7122e-5 -4.947e-5 1.1662e-5	
Vodel Su lesponse Distribution istimation /alidation I /dean Mod Dispersion /dean Mod /dean Mod Dispersion /dean Mod /dean Mod	Im Likelii Immary Method el Link Model Link Model Link Tows quencies ood Parameters RSquare Estimate 2.56745-5 7.6455-5 7.6455-5 7.6455-5 7.6455-5 7.6455-5 7.6455-5 7.125555-5 7.12555-5 7.125555-5 7.12555-5 7.12555-5 7.125555-5 7.12555-	lightning.end Megative Bino Maximum Lik None Log Identity 66459 27362 159653.56 33 319644.27 3193732 0.0206331 tes for Ori Std Error 8.3112e6 1.2354e5 1.1756e5 0.0000172 1.18661e5 0.115182e5 1.5182e5 1.5182e5	mial elihood ginal Predic Wald Chi5quare 9.542148 38.299729 0.4757447 4.4240651 7.5436343 20.686329 6.0566451 2.4.956002 0.8859758 1.8596542	Prob > ChiSquare 0.0020* <.0001* 0.4904 0.0354* 0.0060* <.0001* 0.0139* <.0001* 0.3466 0.1727	9.384e6 -0.000101 -3.115e5 2.469e6 1.4679e5 7.279e5 7.6082e6 -0.000113 -3.321e5 -8.583e6	4.1963e-5 -5.224e-5 1.4933e-5 6.9867e-5 8.783e-5 -0.000029 6.7122e-5 -4.947e-5 1.1662e-5 4.7842e-5	
Model Su kesponse Distribution istribution lalidation I dean Mod Dispersion Measure LogLikelih Number of Suc LogLikelih Number of Suc LogLikelih Suc Paramet Ferm SIC1 SIC2 SIC4 SIC5 SIC5 SIC5 SIC5 SIC5 SIC6 SIC7 SIC8 SIC7 SIC8 SIC7 SIC8 SIC9 SIC1	Im Likelik Immary Method Method el Link Model Link Model Link Model Link rows quencies iood Parameters I RSquare ter Estimate 2.5674-5 -7.645-5 -8.109-6 3.6168-5 -9.109-6 3.7365-5 -8.109-6 -0.000051 3.7365-5 -8.148-5 -1.07	lightning.end Maximum Lik None Log Identity 66459 27362 159653.56 313 319644.27 3193732 0.0206331 <b>tes for Ori</b> <b>Std Error</b> 8.3112-6 1.2354-5 1.05661 e-5 1.1156-5 0.0000174 1.5182-5 0.000014 1.14479-6	mial elihood ginal Predic Waid ChiSquare 9.5421424 38.29720 4.4249651 7.5436432 0.60569451 2.4.956002 0.8859758	Prob > ChiSquare 0.0020* <.0001* 0.4904 0.0354* 0.0060* <.0001* 0.0139* <.0001* 0.3466	9.384e6 -0.000101 -3.115e5 2.469e6 1.4679e5 -7.279e5 7.6082e6 -0.000113 -3.321e5	4.1963e-5 -5.224e-5 1.4933e-5 6.9867e-5 8.783e-5 -0.000029 6.7122e-5 -4.947e-5 1.1662e-5	
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Nodel Si Veriposito Universitation Veriposito Veriposito Veriposito Veriposito Veriposito Veriposito Veriposito Veriposito Veriposito Veriposito Veriposito Veriposito Veriposito Verip	Im Likelij           Immary           Method           Method           Intervention           Method           Intervention           Model Link           Gaser           Intervention           Intervention           Model Link           Intervention           Interventinter           Interventint	lightning.end Megative Bino Maximum Lik None Log Identity 66459 27362 2159653.56 33 31964427 3193732 0.0206331 tes for Ori Std Error 8.3112-6 1.2554-5 0.0000172 1.1756-5 0.000018 1.14482-5 0.000014 1.4779-5 0.000016 1.14882-5 2.61276	mial elihood ginal Predic Wald ChiSquare 9.542148 38.299729 0.4757487 4.4249651 7.5436343 20.668329 6.0560451 2.495602 0.8859758 1.8596342 8.037146 39.995118 5.3591363 0.0044739	Prob > ChiSquare 0.0020* <.0001* 0.4904 0.0050* <.0001* 0.0139* <.0001* 0.3466 0.1727 0.0046* <.0001* 0.0206* 0.9467	9.384e6 -0.000101 -3.115e5 -2.469e6 1.4679e5 -7.6082e6 -0.000113 -3.321e5 -8.583e6 1.2932e5 -0.000113 5.2839e6 -4.946e5	4.1963e5 -5.224e5 1.4933e5 6.9867e5 8.783e5 -0.000029 6.7122e5 -4.947e5 1.1662e5 7.0866e5 -5.94e5 6.3626e5 5.2956e5	
Model Si Besponse Jointibution	Im Likelii           Immary           Method           Method           Method           Immary           Method           Immary           Model Link           rows           quencies           Immary           Model Link           Parameters           If RSquare           Estimate           2.5674e5           -0.000051           3.6168e5           -0.1078e5           -1.9629e5           -0.000086           3.4455e5           1.7476e6           8.751e6	lightning.end Maximum Lik None Log Identity 66459 27362 159653.56 31397322 0.0206331 <b>tes for Ori</b> <b>Std Error</b> 8.3112e6 1.2354e5 1.1756e5 0.0000174 1.4756e5 0.0000134 1.4778e5 2.6127e5 1.1742e5	mial elihood ginal Predic Waid ChiSquare 9.542144 4.224051 7.543634 2.0.86632 0.8589758 1.8596342 8.037146 39.999118 5.359136	Prob > ChiSquare 0.0020* <.0001* 0.4904 0.0354* 0.001* 0.0139* <.0001* 0.3466 0.1727 0.0466* <.0001* 0.0046*	9.384e6 -0.000101 -3.115e5 2.469e6 1.4679e5 -7.279e5 7.6082e6 -0.000113 -3.321e5 -8.583e6 1.2932e5 -0.000113 5.2839e6	4.1963e5 -5.224e5 1.4933e5 6.9867e5 8.783e5 -0.000029 6.7122e5 1.1662e5 4.7842e5 7.0866e5 6.3626e5	
Model Si Response Jakinbuilo	Im Likelij           Immary           Method           Method           Intervention           Method           Intervention           Model Link           Gaser           Intervention           Intervention           Model Link           Intervention           Interventinter           Interventint	lightning.end Megative Bind Maximum Lik None Log Identity 66459 27362 159653.56 331964427 3193732 0.0206331 tes for Oria Std Error 8.3112e6 1.2354e5 0.000018 1.15182e5 0.000018 1.1448e5 0.000018 1.44884e5 2.6127e5 1.1742e5 0.000018	mial elihood ginal Predic Waid ChiSquare 9.542145 4.424961 7.543643 2.99729 0.4757487 4.424961 7.543643 2.0.8683758 1.8596342 2.4.95602 0.8859758 1.8596342 2.4.95602 0.8859758 1.8596342 0.08639718 0.037146 3.9.991183 0.0044739 0.05554571	Prob > ChiSquare 0.0020* <.0001* 0.4904 0.0050* <.0001* 0.3466 0.1727 0.0046* <.0001* 0.3466 0.1727 0.0046* 0.9467 0.4561	9.384e6 -0.000101 -3.115e5 2.469e6 1.4679e5 -7.279e5 -7.6082e6 -0.000113 -3.321e5 -8.583e6 1.2932e5 -0.000113 5.2839e6 -4.946e5 -1.426e5	4.1963e5 -5.224e5 1.4933e5 6.9867e5 8.783e5 -0.000029 6.7122e5 1.1662e5 4.7842e5 7.0866e5 5.94e5 6.3626e5 5.2956e5 5.2956e5	
Model SJ Barboution Jakinabulo Jakinabu	Im Likelij           Immary           Method           Method           Method           Immary           Model Link           Model Link           Model Link           Model Link           Model Link           Response           Brameters           In Sequare           Estimate           2.5674-5           -7.645-5           3.6109-65           3.6162-5           -0.00051           3.7365-5           1.078-5           1.0782-5           1.07000066           3.4455-5           3.679-65           1.778-65           1.5782-5	lightning.end Maximum Lik None Log Identity 66459 27362 15965356 331964427 3193732 0.0206331 tes for Ori 5td Error 8.3112e6 1.2354e5 1.1756e5 0.000018 1.5182e5 0.0000114 1.14489-5 2.6127e5 1.1742e5 0.000018 1.14489-5 2.6127e5	mial elihood ginal Predic Waid ChiSquare 9,5421494 38,299729 0,4757487 4,4249651 7,5436343 20,86329 6,056451 24,95602 0,4757487 4,53591363 0,0545451 39,99342 3,037146 39,99342 3,037146 39,99342 3,3591363 3,0044739 0,5554571 4,1822839 19,377452	Prob > ChiSquare 0.0020 0.0001* 0.4904 0.0454* 0.0060* 0.0019* 0.0019* 0.0019* 0.0019* 0.0019* 0.0046* 0.0046* 0.0046* 0.0046* 0.0046* 0.0046* 0.0046* 0.0046* 0.0046* 0.0046*	9.384e6 -0.000101 -3.115e5 2.469e6 1.4679e5 -7.279e5 7.6082e6 -0.000113 -3.321e5 -8.583e6 -1.2932e5 -0.000113 5.2839e6 -4.946e5 -1.426e5 -0.000072 -8.222e5 -1.447e5	4.1963e5 -5.224e5 1.4933e5 6.9867e5 8.783e5 -0.000029 6.7122e5 -4.947e5 1.1662e5 -5.94e5 -5.94e5 5.2956e5 5.2956e5 5.1764e5 -1.533e6 -3.156e5 4.6039e5	
Model SJ Berponse Jostribution Jostributi	Im Likelii           Immary           Method           Method           el Link           Model Link           rows           quencies           ood           Parameters           RSquare           ter Estima           Schrätes           2.5674e5           3.6168e5           3.6168e5           -0.000051           3.7365e5           -1.962e5           -0.000063           3.4455e5           1.972e55           0.0000051           7.475e6           3.7375e5           1.972e5           0.0000051           0.7455e5           0.7455e5           0.775e6           3.7375e5           0.7875e5           0.7875e5           0.7875e5           0.7875e5           1.775e6           3.782e5           0.0000051           0.000051           0.000051           0.000051           0.000051           0.000051           0.000051           0.000051           0.00005	lightning.end Maximum Lik None Log Identity 159653.56 319644.27 3193732 0.0206331 <b>tet for Ori</b> <b>Std Fror</b> 8.3112e6 1.23545 1.1756e5 0.000017 1.182e5 0.000018 1.41848e5 2.6127e5 1.1742e5 0.000018 1.448845 2.6127e5 1.1742e5 0.000018	mial elihood ginal Predic Wald ChiSquare 9.542148 3.8.299729 0.4757487 4.4240651 7.543634 2.0.868329 6.0566451 2.4.95602 0.8859758 1.8596342 2.4.95602 0.8859758 1.8596342 1.859591383 0.0044739 0.55554571 4.1828359 19.377452 10.3545744 4.1828359 19.377452 10.3545744	Prob > ChiSquare 0.0020* 0.001* 0.4904 0.0354* 0.0404 0.0339* 0.0016* 0.0306* 0.01727 0.0046* 0.001* 0.0206* 0.9451 0.4561 0.4561 0.4561 0.4561	9.384e6 -0.000101 -3.115e5 2.469e6 1.4679e5 -7.279e5 7.6082e6 -0.000113 -3.321e5 -8.583e6 1.2932e5 -0.000113 5.2839e6 -4.946e5 -1.426e5 -0.000072 -8.222e5 -1.447e5 -4.477e5	4.1963e5 -5.224e5 -5.224e5 -1.4933e5 6.9867e5 8.783e5 -0.000029 6.7122e5 4.7842e5 7.0866e5 -5.94e5 6.3626e5 5.2956e5 3.1764e5 -1.533e6 -3.156e5 4.6039e5 2.1568e5	
Model SJ Response Distribution Mean Mod Mean Mod Dispersion Wessure Number of Semenilsze Bernenilsze Bernenilsze Bernenilsze Bernenilsze SGC1	Im Likelij           Immary           Method           Method           Method           Immary           Model Link           Model Link           Model Link           Model Link           Model Link           Response           Brameters           In Sequare           Estimate           2.5674-5           -7.645-5           3.6109-65           3.6162-5           -0.00051           3.7365-5           1.078-5           1.0782-5           1.07000066           3.4455-5           3.679-65           1.778-65           1.5782-5	lightning.end Maximum Lik None Log Identity 66459 27362 159653.56 3133192732 0.0206331 tes for Ori Std Error 8.3112e6 1.2354e5 1.1756e5 0.000018 1.5182e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.5437e5 1.5437e5 1.5437e5 1.5437e5	mial elihood ginal Predic Waid ChiSquare 9,5421464 38,299729 0,4757487 4,4249651 7,5436343 20,868329 6,0564451 24,956002 0,4757487 4,4249651 7,5436343 0,047519 0,0554571 3,09518 5,359136 3,037146 3,039518 5,359136 3,037146 1,10451819 10,354745 1,10451819 10,3547044 4,4820345	Prob > Chi5quare 0.0020* 0.0001* 0.4904 0.0354* 0.0001* 0.3666 0.1727 0.0046* 0.3466 0.1727 0.0046* 0.9467 0.0205* 0.9467 0.0205* 0.9467 0.0205* 0.9467 0.0205*	9.384e6 -0.000101 -3.115e5 2.469e6 1.4679e5 -7.279e5 7.6082e6 -0.000113 -3.321e5 -8.583e6 1.2932e5 -0.000113 5.2839e6 -4.946e5 -1.426e5 -0.000072 -8.222e5 -1.447e5 -3.1808e6	4.1963e5 -5.224e5 1.4933e5 6.9867e5 8.783e5 -0.000029 6.7122e5 -4.947e5 1.1662e5 7.0866e5 5.2956e5 5.2956e5 3.1764e5 -1.533e6 -3.156e5 4.6039e5 2.1568e5 5.454e5	
Model SJ Response Jostribution Jostribution Jostribution Mean Mod Jospersion Measure Jumber of Jumber	Im Likelij           Immary           Method           Method           Method           Immary           Model Link           Model Link           Model Link           Immary           Immary           Model Link           Requencies           Immary	lightning.end Maximum Lik None Log Identity 66459 27362 31964427 3193732 125653.56 33 31964427 3193732 0.0206331 <b>tes for Ori</b> <b>Std Error</b> 8.3112e6 1.2354e5 1.2354e5 1.2354e5 1.1154e5 0.0000174 1.14789e5 2.6127e5 1.11742e5 0.000018 1.14483e5 2.6127e5 1.1742e5 0.000018 1.1224e5 1.1742e5 2.6127e5 1.1747e5 0.000018 1.2324e5 1.5437e5 1.5437e5 1.5437e5 1.5437e5 1.5437e5	mial elihood ginal Predic Waid ChiSquare 9.5421424 38.29724 4.242651 7.543643 20.666329 6.056451 8.037146 0.0856758 1.8596342 8.037146 0.05554571 4.1828359 10.355452 10.451819 0.5467044 4.8820345 0.1755641 2.1708657	Prob > Chi5quare 0.0020* 0.0001* 0.4904 0.054* 0.0001* 0.3466 0.0013* 0.3466 0.0467 0.0046* 0.9467 0.0206* 0.9467 0.0206* 0.9467 0.03066 0.4366 0.4365 0.03066 0.4357 0.0276* 0.0276* 0.0276*	9.334-6 -0.00010 -3.115e5 2.469e6 1.4679e5 -7.2792e5 7.6092e6 -0.000113 -3.221e5 -8.583e6 -0.000113 -3.221e5 -8.583e6 -0.000113 -3.221e5 -0.000113 -3.221e5 -0.000012 -1.426e5 -1.447e5 -1.447e5 -1.447e5 -1.447e5 -1.447e5 -3.1802e6 -2.935e5 -3.75e5	4.1963e5 -5.224e5 1.4933e5 6.9867e5 8.783e5 -0.000029 6.7122e5 -4.947e5 1.1662e5 1.1662e5 1.2662e5 5.2956e5 5.2956e5 3.1764e5 -1.533e6 3.1764e5 2.1568e5 5.454e5 0.000019 5.3139e6	
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Model SJ Barbonico Jairbailta Jairbailt	Im Likeliji           Immary           Method           Method           el Link           Model Link           rows           quencies           ood           Parameters           RSquare           Estimate           2.56745           3.73655           -8.109-60           3.73655           -1.078-5           1.9629-5           0.000068           3.4751-65           -5.689-5           1.578-25           -5.689-5           1.578-25           -5.169-66           -0.000088           -1.247-55           -1.247-55           -0.0000924           -2.427-65	lightning.end Megative Bind Maximum Lik None Log Identity 66459 27362 159653.56 331964427 3193732 0.0206331 tes for Ori Std Error 8.3112e6 1.2354e5 1.0756e5 0.0000184 1.4883e5 0.0000144 1.4779e5 0.0000184 1.4483e5 2.6127e5 1.1742e5 0.000018 1.25437e5 1.5437e5 1.5437e5 0.000018 1.2335e5 1.767e5 0.000018 1.2335e5 1.767e5 0.000018 1.2335e5 1.767e5 0.000018 1.2335e5 1.2335e5 1.2335e5 1.2335e5 1.23855e5 1.2385	mial elihood ginal Predic Chi5quare 9,5421484 38,299729 0,4757487 4,4249651 7,5436343 20,66329 6,0560451 24,956022 8,037146 39,995118 5,3591363 0,0044739 10,856754 1,829591363 0,0044739 10,357455 1,41826359 10,377452 1,004571 2,1706657 2,170455 0,7755641 2,1706657 2,170457 2,17045	Prob > ChiSquare 0.0207 <.0001* 0.4504 0.0354* 0.0001* 0.0354* 0.001* 0.0354* 0.001* 0.0354* 0.001* 0.0354* 0.001* 0.001* 0.046* 0.001* 0.046* 0.4561 0.046* 0.4575 0.05752 0.1564 0.1575 0.1406 0.1575 0.05752 0.1406 0.1575 0.001* 0.0575 0.05752 0.1406 0.0575 0.05752 0.1406 0.0575 0.05752 0.1406 0.0575 0.001* 0.0575 0.0575 0.0575 0.0575 0.0575 0.0575 0.0575 0.0575 0.0575 0.0575 0.0575 0.0575 0.0575 0.0575 0.0575 0.001* 0.0575 0.0575 0.001* 0.000* 0.000* 0.0575 0.000* 0	9.384-6 -0.000101 -3.1152-5 2.4699-5 -7.279-5 -7.279-5 -7.6082-6 -0.000113 -3.221-6 -5.8583-6 -0.000113 -2.8392-6 -1.437-6 -0.000017 -1.447-6 -0.4935-6 -1.447-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -3.19	4.1963e5 5.224e5 5.224e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.7722e5 8.783e5 8.77242e5 5.2956e5 8.3626e5 8.3526e5 8.353e5 8.35555 8.355555 8.355555 8.355555 8.355555 8.355555 8.355555 8.355555 8.355555 8.355555 8.355555 8.355555 8.3555555 8.35555555555	
Model SJ Berponse Jostribution Jostributi	Im Likeliji           Immary           Method           Hethod           el Link           Model Link           rows           quencies           ood           Parameters           IR Square           Estimate           2.5674e5           7.645e5           3.6168e5           9.3668e5           1.922e5           0.000031           3.4355e5           1.962e5           1.978e5           1.978e5           1.978e5           0.000031           3.4455e5           1.978e5           1.978e5           0.000031           0.000032           0.000031           0.000032           1.978e5           1.978e5           0.000031           0.000032           1.978e5           1.978e5           1.978e5           1.978e5           1.978e5           1.978e5           0.000032           0.000032           0.000032           0.000034           0.000034 <td>lightning.end Maximum Lik None Log Identity 66459 27362 159653.56 3131644.27 3193732 0.0206331 <b>tes for Ori</b> <b>5td Error</b> 8.3112e6 1.2354e5 1.1756e5 0.000017 1.115e5 2.6127e5 1.5182e5 0.000018 1.1488e5 2.6127e5 1.5182e5 0.000018 1.1488e5 2.6127e5 1.5437e5 1.5437e5 1.5437e5 1.5437e5 1.6767e5 1.2334e5 1.12345 2.6127e5 1.12345 1.12345 1.12345 1.12345 1.12345 1.12345 1.12345 1.12345 1.12345 1.12355 1.12385 1</td> <td>mial elihood ginal Predic Wald ChiSquare 9.542148 38.299729 0.4757487 4.4240651 7.543634 20.868329 6.0566451 2.4.95602 0.8559758 1.8596342 2.4.95602 0.8559758 1.8596342 1.8596342 1.8596345 1.8596345 1.8596345 1.8596345 1.8596345 1.8596345 1.9371465 3.995118 1.937145 1.</td> <td>Prob &gt; ChiSquare 0.0202* &lt;.0001* 0.4504 0.0354* 0.046* &lt;.0001* 0.045* 0.001* 0.045* 0.0045* 0.0045* 0.046* 0.0427 0.04561 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.050 0.050 0.002*</td> <td>9.384-6 -0.00011 -3.115e5 -2.469e6 -1.4679e5 -7.279e5 -7.279e5 -7.279e5 -7.6082e6 -0.000113 -3.321e5 -8.583e6 -0.000113 -3.321e5 -0.000113 -3.321e5 -0.000072 -0.000072 -3.75e5 -3.75e5 -0.000016 -7.574e5 -0.00005</td> <td>4.1903a5 5.2245 5.2245 6.9867c5 6.7813a5 6.7813a5 6.7712a5 6.7712a5 6.7712a5 6.7712a5 6.7712a5 6.7712a5 6.7712a5 6.7712a5 6.7712a5 6.36265 5.2955c5 5.2955c5 5.2955c5 5.2955c5 5.3132a6 6.36265 5.51332a6 6.36265 5.51332a6 6.36265 5.51332a6 6.36265 5.51332a6 6.36265 5.51332a6 6.363265 5.51332a6 6.363265 5.51332a6 6.363265 5.51332a6 6.363265 5.51332a6 6.363265 5.51332a6 6.363265 5.51332a6 6.363265 5.51332a6 6.363265 5.51326 6.363265 5.51326 6.363265 5.51326 6.363265 6.363265 5.513266 6.363265 6.363265 6.363265 5.513266 6.363265 6.36365 6.363265 6.3636565 6.3632656565656565656565656565656565656565</td> <td></td>	lightning.end Maximum Lik None Log Identity 66459 27362 159653.56 3131644.27 3193732 0.0206331 <b>tes for Ori</b> <b>5td Error</b> 8.3112e6 1.2354e5 1.1756e5 0.000017 1.115e5 2.6127e5 1.5182e5 0.000018 1.1488e5 2.6127e5 1.5182e5 0.000018 1.1488e5 2.6127e5 1.5437e5 1.5437e5 1.5437e5 1.5437e5 1.6767e5 1.2334e5 1.12345 2.6127e5 1.12345 1.12345 1.12345 1.12345 1.12345 1.12345 1.12345 1.12345 1.12345 1.12355 1.12385 1	mial elihood ginal Predic Wald ChiSquare 9.542148 38.299729 0.4757487 4.4240651 7.543634 20.868329 6.0566451 2.4.95602 0.8559758 1.8596342 2.4.95602 0.8559758 1.8596342 1.8596342 1.8596345 1.8596345 1.8596345 1.8596345 1.8596345 1.8596345 1.9371465 3.995118 1.937145 1.	Prob > ChiSquare 0.0202* <.0001* 0.4504 0.0354* 0.046* <.0001* 0.045* 0.001* 0.045* 0.0045* 0.0045* 0.046* 0.0427 0.04561 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.046* 0.050 0.050 0.002*	9.384-6 -0.00011 -3.115e5 -2.469e6 -1.4679e5 -7.279e5 -7.279e5 -7.279e5 -7.6082e6 -0.000113 -3.321e5 -8.583e6 -0.000113 -3.321e5 -0.000113 -3.321e5 -0.000072 -0.000072 -3.75e5 -3.75e5 -0.000016 -7.574e5 -0.00005	4.1903a5 5.2245 5.2245 6.9867c5 6.7813a5 6.7813a5 6.7712a5 6.7712a5 6.7712a5 6.7712a5 6.7712a5 6.7712a5 6.7712a5 6.7712a5 6.7712a5 6.36265 5.2955c5 5.2955c5 5.2955c5 5.2955c5 5.3132a6 6.36265 5.51332a6 6.36265 5.51332a6 6.36265 5.51332a6 6.36265 5.51332a6 6.36265 5.51332a6 6.363265 5.51332a6 6.363265 5.51332a6 6.363265 5.51332a6 6.363265 5.51332a6 6.363265 5.51332a6 6.363265 5.51332a6 6.363265 5.51332a6 6.363265 5.51326 6.363265 5.51326 6.363265 5.51326 6.363265 6.363265 5.513266 6.363265 6.363265 6.363265 5.513266 6.363265 6.36365 6.363265 6.3636565 6.3632656565656565656565656565656565656565	
Model SJ Versposse Jakinbullon Jakinbullo	Im Likeliji           Immary           Method           Method           el Link           Model Link           rows           quencies           ood           Parameters           RSquare           Estimate           2.56745           3.73655           -8.109-60           3.73655           -1.078-5           1.9629-5           0.000068           3.4751-65           -5.689-5           1.578-25           -5.689-5           1.578-25           -5.169-66           -0.000088           -1.247-55           -1.247-55           -0.0000924           -2.427-65	lightning.end Megative Bind Maximum Lik None Log Jdentity 66459 27362 159653.56 3193732 0.0206331 <b>tes for Ori</b> <b>Std Error</b> 8.3112e6 1.2354e5 1.1756e5 0.0000172 1.8661e5 1.11448e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 2.6127e5 1.1742e5 1.5437e5 1.2335e5 1.2335e5 1.2325e5 1.23555 1.235555 1.235555 1.235555 1.235555 1.235555 1.235555 1.235555 1.235555 1.235555 1.235555 1.235555 1.235555 1.235555 1.235555 1.235555 1.2355555 1.2355555 1.2355555 1.23555555555555555555555555555555555555	mial elihood ginal Predic Chi5quare 9,5421484 38,299729 0,4757487 4,4249651 7,5436343 20,66329 6,0560451 24,956022 8,037146 39,995118 5,3591363 0,0044739 10,856754 1,829591363 0,0044739 10,357455 1,41826359 10,377452 1,004571 2,1706657 2,170455 0,7755641 2,1706657 2,170457 2,17045	Prob > ChiSquare 0.0207 <.0001* 0.4504 0.0354* 0.0001* 0.0354* 0.001* 0.0354* 0.001* 0.0354* 0.001* 0.0354* 0.001* 0.036* 0.0456* 0.4561 0.046* 0.4561 0.4561 0.4565 0.45752 0.1564 0.6755 0.1664 0.1575 0.000* 0.05752 0.1406 0.1575 0.05752 0.1406 0.05752 0.1406 0.05752 0.000* 0.05752 0.000* 0.05752 0.000* 0.05752 0.000* 0.05752 0.000* 0.05752 0.000* 0.05752 0.000* 0.05752 0.000* 0.05752 0.000* 0.05752 0.000* 0.000	9.384-6 -0.000101 -3.1152-5 2.4699-5 -7.279-5 -7.279-5 -7.6082-6 -0.000113 -3.221-6 -5.8583-6 -0.000113 -2.8392-6 -1.437-6 -0.000017 -1.447-6 -0.4935-6 -1.447-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -2.935-6 -3.1808-6 -3.19	4.1963e5 5.224e5 5.224e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.783e5 8.7722e5 8.783e5 8.77242e5 5.2956e5 8.3626e5 8.3526e5 8.353e5 8.35555 8.355555 8.355555 8.355555 8.355555 8.355555 8.355555 8.355555 8.355555 8.355555 8.355555 8.355555 8.3555555 8.35555555555	

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Ferm KSC1	Estimate 2.2087e-5	Std Error 8.6922e-6	ChiSquare 6.4567383	ChiSquare 0.0111*	Lower 95% 5.0506e-6	Upper 95% 3.9123e-
KSC2	-0.000024	1.298e-5	3.3984882	0.0653	-4.937e-5	1.5117e-
KSC4 KSC5	-6.669e-5 -3.578e-5		30.445742 4.0415106	<.0001* 0.0444*	-9.038e-5	-0.00004
KSC6	0.0001125	1.938e-5	33.718683	<.0001*	-7.066e-5 7.4551e-5	-8.967e- 0.000150
KSC7	-3.19e-5		7.6146649	0.0058*	-5.455e-5	-9.242e-
(SC8 (SC9	7.2155e-5 -9.341e-5		20.918561 31.343986	<.0001* <.0001*	4.1235e-5 -0.000126	0.000103 -6.071e
KSC10	-3.968e-6	1.1821e-5	0.1126987	0.7371	-2.714e-5	0.000019
KSC11 KSC12	2.5988e-5 4.7916e-5		3.1271556 10.049328	0.0770 0.0015*	-2.816e-6 0.0000183	0.000054 7.7541e
KSC13	-0.000082	1.4074e-5	34.028933	<.0001*	-0.00011	-5.451e-
(SC14 (SC15	5.7652e-5 -1.344e-5		14.307202 0.2610803	0.0002* 0.6094	2.7779e-5 -0.000065	8.7526e- 0.000038
(SC16	-6.593e-6	1.2029e-5	0.3004077	0.5836	-3.017e-5	1.6983e-
KSC17	-0.000045		6.0844412 8.6433719	0.0136*	-8.061e-5	-9.227e4
KSC18 KSC19	-3.958e-5 -2.738e-8		8.6433719 2.8417e-6	0.0033* 0.9987	-0.000066 -3.186e-5	-1.319e
KSC20	-1.172e-5	1.8153e-5	0.4167671	0.5186	-4.73e-5	2.386e
KSC21 KSC22	4.9943e-5 -5.884e-6		13.222998 0.2101753	0.0003*	2.3024e-5 -0.000031	7.6863e- 1.9272e-
(SC24	-1.744e-5	1.1449e-5	2.3213599	0.1276	-3.988e-5	4.996e-
KSC25 KSC26	-0.000021 -1.235e-5	21210200	5.0997859 1.3769332	0.0239*	-3.93e-5 -0.000033	-2.779e4 8.281e4
(SC27	4.4436e-5	1.2884e-5	11.894078	0.0006*	1.9183e-5	6.9689e-
(SC28 (SC29	0.0001016 -4.056e-5		72.447991 8.3892494	<.0001* 0.0038*	0.0000782	0.00012 -1.311e
(SC30	-1.543e-5		1.1632191	0.2808	-4.347e-5	0.000012
(SC31 (SC32	0.0000233		5.9654772 11.964657	0.0146* 0.0005*	4.602e-6 2.9813e-5	0.00004
KSC32 KSC34	-2.436e-5	1.5156e-5	2.5832666	0.1080	-0.000054	0.000107 5.3458e
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Term	Estimate	Std Error	ChiSquare	ChiSquare	Lower 95%	Upper 95%	
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KSC4	-0.000053	1.1864e-5	19.953122	<.0001*	-7.625e-5	-2.974e-5	
KSC5 KSC6	-5.126e-5 0.0001141		8.7248484 36.812342	0.0031* <.0001*	-8.527e-5 7.7253e-5	-1.725e-5 0.000151	
KSC7	-3.471e-5	0.0000113	9.4456344	0.0021*	-5.685e-5	-1.258e-5	
KSC8 KSC9	7.0689e-5		21.511793 45.647587	<.0001* <.0001*	4.0817e-5 -0.000138	0.0001006 -7.589 <del>c</del> 5	
KSC10	-0.000107 1.4317e-5		45.04/58/ 1.5415191	0.2144	-0.000138 -8.284e-6	-7.589e-5 3.6917e-5	
KSC11 KSC12	-5.148e-7	1.417e-5	0.00132 9.604905	0.9710	-2.829e-5	2.7258e-5	
(SC12 (SC13	4.4873e-5 -0.000045		9.604905 11.47796	0.0019* 0.0007*	0.0000165 -0.000071	7.3251e-5 -0.000019	
KSC14	4.1371e-5		7.8884311	0.0050*	0.0000125	7.0241e-5	
(SC15 (SC16	8.267e-7 -2.686e-5		0.0010534 5.2571043	0.9741 0.0219*	-0.000049 -4.982e-5	5.0748e-5 -3.9e-6	
KSC17 KSC18	-0.000021	1.7462e-5	1.4557508	0.2276	-5.529e-5	1.3156e-5	
KSC18 KSC19	-5.245e-5 2.2476e-5	1.5357e-5	16.309078 2.1419464	<.0001* 0.1433	-0.000078 -7.624e-6	-0.000027 5.2576 <del>e</del> 5	
KSC20	-0.000025		2.0431538	0.1529	-0.000059	9.2491e-6	
KSC22	4.882e-5 2.5544e-6	1.259e-5	13.713689 0.0411661	0.8392	2.2981e-5 -2.212e-5	7.4659e-5 2.723e-5	
KSC24 KSC25	-2.148e-5		3.5566756 11.630877	0.0593 0.0006*	-4.381e-5 -5.07e-5	8.4354 <del>e</del> -7 -1.369e-5	
(SC26	7.6374e-6	1.0251e-5	0.555084	0.4562	-1.245e-5	2.7729e-5	
(SC27 (SC28	0.000028 8.4382e-5		4.8908918 48.806055	0.0270* <.0001*	3.1861e-6 0.0000607	5.2831e-5 0.0001081	
KSC29	-4.925e-5	1.3933e-5	12.493423	0.0004*	-7.656e-5	-0.000022	
KSC30 KSC31	-3.037e-6 1.5488e-5		0.046414 2.6148568	0.8294 0.1059	-3.067e-5 -3.284e-6	0.0000246 3.4261e-5	
KSC32	8.4925e-5	2.0235e-5	17.615175	<.0001*	4.5266e-5	0.0001246	
KSC34							
Disposion	-2.263e-5		2.1789709	0.1399	-5.267e-5	7.4161e-6	
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Term KSC1	Estimate 1.9751e-5	Std Error 8.5537e-6	ChiSquare 5.3316707	ChiSquare 0.0209*	Lower 95% 2.9859e-6	Upper 95% 3.6516e-5
KSC2	-2.843e-5		5.0696091	0.0209	-5.318e-5	-3.682e-6
KSC4	-7.652e-5	1.1926e-5	41.167147	<.0001*	-0.0001	-5.314e-5
KSC5	-3.719e-5		4.4990978	0.0339*	-7.156e-5	-2.826e-6
KSC6	0.0001199			<.0001*	8.2656e-5	0.0001571
KSC7 KSC8	-1.743e-5 0.0000734			0.1196 <.0001*	-3.938e-5 4.2658e-5	4.5183e-6 0.0001041
KSC9	-9.662e-5		33.439521	<.0001*	-0.000129	-6.387e-5
KSC10	5.5204e-6			0.6325	-1.71e-5	2.8146e-5
KSC11	1.2069e-5	1.4423e-5	0.7002398	0.4027	-1.62e-5	4.0337e-5
KSC12	5.0424e-5		11.095114	0.0009*	2.0754e-5	0.0000801
KSC13	-8.533e-5			<.0001*	-0.000113	-5.79e-5
KSC14 KSC15	6.5761e-5 -2.384e-5		18.579429 0.856733	<.0001* 0.3547	3.5859e-5 -7.432e-5	9.5663e-5 2.664e-5
KSC15 KSC16	-2.384e-5 -9.357e-6		0.856733	0.3547	-7.432e-5 -0.000033	2.004e-5 1.433e-5
KSC10	-9.537e-0 -4.37e-5		010001001	0.4300	-7.762e-5	-9.786e-6
KSC18	-0.000031	1.2934e-5	5.7795568	0.0162*	-5.645e-5	-5.744e-6
KSC19	6.8863e-6	1.6164e-5	0.1815061	0.6701	-2.479e-5	3.8567e-5
KSC20 KSC21	-8.386e-6		0.2214278	0.6380	-4.332e-5	2.6543e-5
KSC21 KSC22	4.3461e-5 -4.028e-6	1.3515e-5 1.2486e-5		0.0013* 0.7470	1.6972e-5 -2.85e-5	6.9951e-5 2.0445e-5
KSC24	-9.348e-6			0.4028	-3.125e-5	1.255e-5
KSC25	-1.967e-5	9.0147e-6	4.7602313	0.0291*	-3.734e-5	-0.00002
KSC26	-1.156e-5		1.2028461	0.2728	-3.222e-5	9.0982e-6
KSC27 KSC28	1.2727e-5	1.2778e-5 0.0000117	0.9919384 82.960586	0.3193 <.0001*	-1.232e-5 0.0000837	3.7771e-5 0.0001296
KSC28	-5.182e-5		14.251289	0.0002*	-7.873e-5	-0.000025
KSC30	6.8351e-7			0.9610	-2.67e-5	2.8062e-5
KSC31	1.5259e-5	9.2685e-6	2.7102623	0.0997	-2.907e-6	3.3425e-5
KSC32 KSC34	7.3425e-5		14.358808	0.0002*	3.5447 <del>e</del> -5	0.0001114
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Vacantee Vac	n Method Hethod	Bonduiss           ssion for li           tood           lightning.enc           Negative Bin           Maximum Li           None           Log           Identity           76117           33722           2020286           33722           203384           404469.78           404191.79           0.150384           tts for Ori           1.12368-5           0.0000172           1.7875-5           0.0000148           1.5736-5           0.0000141           1.42655-5	22676096 ghtning.end 1.1 omial eelihood <b>ginal Predic</b> <b>Wald</b> <b>ChiSquare</b> 11.151055 13.562328 37.78618 4.9505145 53.623787 13.862389 62.516659 0.8437767 0.0220106 7.8704776	L1 BySenso L1 BySenso tors Prob > ChiSquare 0.0001* 0.0251* 0.0001* 0.0261* 0.0001* 0.0261* 0.0001* 0.0261* 0.0001*	Lower 95% 1.1512e5 -0.00015 -0.00015 -1.166e5 -2.439e5 -1.206e5	Upper 95% 4.4227e5 -4.782e5 -4.782e5 -4.656e 0.000165 -0.3839e5 6.496e6 -3.1665e5 2.8389e5 6.7976e5
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Numerators and a second	2 449000 zed Regree unch um Likelik ummary n Method Method Method lei Link frows squencies nood f Parameters d RSquare ter Estimate 2.787-5 -0.2015 -0.000124 1.9977-6 4.0018-5 -0.000124 1.9977-6 6.1527-5 2.4222-6 6.1527-5 2.4222-6	0.000455           ssion for li           nood           lightning.enc           Negative Bin           Maximum Li           None           Log           Identity           Identity           2020628           33           40446978           40446978           1.42165           1.142165           1.0000172           1.336565           1.426565           1.303965           1.436455           1.4346555           1.4346555           1.4346565	22676026 ghtning.end i.1 mial wellhood <b>ginal Predic</b> <b>Wald</b> <b>ChiSquare</b> <b>11.151055</b> <b>13.562328</b> <b>37.78618</b> <b>4.9505145</b> <b>53.623787</b> <b>13.876582</b> <b>23.69389</b> <b>62.516559</b> <b>0.8427767</b> <b>0.8427767</b> <b>1.022005</b> <b>18.347711</b> <b>0.029516</b>	L1 BySenso L1 BySenso tors Prob > ChiSquare 0.0021 0.0021 0.0021 0.0021 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001	Lower 95% 1.1512e-5 -0.000072 9.587e-5 -0.00072 9.587e-5 -0.000072 9.587e-5 -0.000072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.587e-5 -0.00072 9.597e-5 -0.00072 9.597e-5 -0.00072 9.597e-5 -0.00072 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.597e-5 -0.00075 9.59700 9.59700 9.59700 9.59700 9.59700 9.59700 9.59700 9.59700 9.59700 9.597000 9.597000 9.59700000000000000000000000000000000000	Upper 95% 4.42276 4.42276 -4.562 -4.566 0.000165 6.49666 -0.000165 -3.16856 3.16856 3.16856 3.16856 3.16856 3.16856 3.17756 3.86816 3.86816
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Number of Sectors 2015 Sectors	n Method Hethod	0.000455           ssion for li           1000d           lightning.enc           Negative Bin           Maximum Li           None           Log           120002           120002           20206286           33           40446978           40449179           0.0000172           1.1421e5           1.085e5           0.0000111           1.3465e5           1.3039e5           1.43465e5           1.43465e5           1.43465e5           1.43465e5           1.43465e5           1.434645e5           1.4348645e5           1.4348645e5           1.4412e5	22676026 ghtning.end i.1 mial kelihood	L1 BySenso L1 BySenso tors Prob > ChiSquare 0.0001* 0.0261* 0.0001* 0.0261* 0.0001* 0.0261* 0.0001* 0.0261* 0.0001* 0.0001* 0.0001* 0.0001* 0.0001* 0.0001* 0.0001* 0.0001*	Lower 95% 1.1512e5 -6.979e5 -9.259e5 -0.000075 -1.166e5 -0.2439e5 -0.2459e5 -0.2	Upper 95% 4,42276 -2.131e5 -4.782e5 -4.782e5 -3.1685e5 2.38961e5 2.38961e5 3.1685e5 2.38961e5 2.38961e5 3.9681e5 3.9686e5 1.921e5
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Noncession of the second secon	2:849-00 2:824 Regree unch um Likelik um Likelik um mary n Method Method lei Link frows squencies nood f Parameters d RSquare ter Estimate 2:787-6 -3.828-5 0.000139 -1.523-5 7.021-6 -3.828-5 0.000124 1.9977-6 -4.335-5 -5.688-5 -5.688-5 -5.568-5 -5.578-5 -5.578-5 -5.578-5 -5.578-5 -5.578-5 -5.588-5 -5.	Boodstess           ssion for li           ssion for li           hood           lightning end           Negative Bin           Maximum Li           None           Log           Identity           76117           33722           2020626           33           4046191.79           0.0150384           ttess for Ori           std Error           Std Error           1.1421e5           1.000017           1.3376e5           1.000014           1.3465e5           1.24718e5           1.33464e5           1.24718e5           1.24265e5           1.2211e5           1.048e5           1.2211e5           1.2211e5           1.2211e5           1.2211e5           1.2211e5           1.2346e5           1.2211e5           1.3371e5	22676026 ghtning.enc i.1 mial selibood ginal Predic Wald ChiSquare 11.151055 33.62328 37.78618 4.9505145 53.62328 37.78618 62.516659 0.8437767 0.82516659 0.8437767 0.82516659 0.8437767 0.82516659 0.8437767 0.8475333 1.022096 0.0738807 0.0758807	L1 BySense L1 BySense tors Prob > Chifquare 0.0002* 0.0002* 0.0002* 0.0001* 0.0000* 0.000* 0.0000* 0.0000* 0.0000* 0.0000* 0.0	Lower 95% Lower 95% 1.1512e5 -6.979e5 -0.000072 9.587e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -0.000075 -0.106e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -1.00e5 -1.06	Upper 95% 4.4227e5 -2.131e5 -4.782e5 -2.131e5 -4.782e5 -3.1665 -0.000165 -1.775e5 -1.975e5 -1.975e5 -1.975e5 -1.975e5 -1.921e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3489e5 -1.453e6 -3.3489e5 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.449e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.449e7 -1.454e6 -1.454e6 -1.449e7 -1.454e6 -1.449e7 -1.454e6 -1.4
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Chifquare 0.0002* 0.0002* 0.0002* 0.0001* 0.0000* 0.000* 0.0000* 0.0000* 0.0000* 0.0000* 0.0</td> <td>Lower 95% Lower 95% 1.1512e5 -6.979e5 -0.000072 9.587e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -0.000075 -0.106e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -1.00e5 -1.06</td> <td>Upper 95% 4.4227e5 -2.131e5 -4.782e5 -2.131e5 -4.782e5 -3.1665 -0.000165 -1.775e5 -1.975e5 -1.975e5 -1.975e5 -1.975e5 -1.921e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3489e5 -1.453e6 -3.3489e5 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.449e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.449e7 -1.454e6 -1.454e6 -1.449e7 -1.454e6 -1.449e7 -1.454e6 -1.4</td>	22676026 ghtning.end il in mial kelihood ginal Predic Wald ChiSquare 11.151055 3.62328 3.7.78618 4.9505145 5.3.62328 3.7.78618 0.0220106 0.0220106 0.0220106 0.0220106 0.0220106 0.0220106 0.0220106 0.02301748 1.1020528 1.8477675 1.8477652 3.467303 1.1020528 1.8477652 0.0005298 1.8477675 1.8477652 0.0005298 1.8477652 0.0005298 1.8477652 0.0005298 1.8477652 0.0005298 1.8477652 0.0005298 1.8477652 0.0005298 1.8477652 0.0005298 1.8477652 0.0005298 1.8477652 0.0005298 1.8477652 0.0005298 1.8477652 0.0005298 1.8477652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.5377644 1.8497652 0.0005299 0.00052	L1 BySense L1 BySense tors Prob > Chifquare 0.0002* 0.0002* 0.0002* 0.0001* 0.0000* 0.000* 0.0000* 0.0000* 0.0000* 0.0000* 0.0	Lower 95% Lower 95% 1.1512e5 -6.979e5 -0.000072 9.587e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -0.000075 -0.106e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -0.000075 -1.166e5 -1.00e5 -1.06	Upper 95% 4.4227e5 -2.131e5 -4.782e5 -2.131e5 -4.782e5 -3.1665 -0.000165 -1.775e5 -1.975e5 -1.975e5 -1.975e5 -1.975e5 -1.921e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3488e5 -1.453e6 -3.3489e5 -1.453e6 -3.3489e5 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -3.449e7 -1.453e6 -3.349e7 -1.453e6 -3.349e7 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.453e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.454e6 -1.449e7 -1.454e6 -1.454e6 -1.449e7 -1.454e6 -1.449e7 -1.454e6 -1.4

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Parame	er Estima	ites for Ori	ginal Predic Wald	Prob >		
[erm	Estimate	Std Error	ChiSquare	ChiSquare	Lower 95%	Upper 95%
(SC1	1.3025e-5		2.6955322	0.1006 0.0408*	-2.524e-6	2.8573e-5
(SC2 (SC4	-2.424e-5 -1.685e-5		4.1841552 1.9910319	0.0408^	-4.747e-5 -4.024e-5	-1.014e-6 6.5531e-6
(SC5	-0.000013		0.623599	0.1382	-4.024e-5	1.9337e-5
(SC6	4.4233e-5		6.2547133	0.0124*	9.568e-6	0.0000789
(SC7	-0.000047	1.0373e-5	20.567744	<.0001*	-6.738e-5	-2.671e-5
KSC8	6.0414e-5		17.522133	<.0001*	3.2127e-5	0.0000887
(SC9	-6.232e-5		16.41048	<.0001*	-9.246e-5	-3.217e-5
(SC10 (SC11	3.4035e-5		10.18658 3.4356054	0.0014*	1.3134e-5	5.4935e-5 1.4111e-6
(SC11 (SC12	-2.458e-5 1.4467e-5		3.4356054	0.0638	-5.056e-5 -1.276e-5	1.4111e-6 0.0000417
(SC13	-3.581e-5	1.265e-5	8.015429	0.0046*	-6.061e-5	-0.000011
(SC14	2.2072e-5	0.0000143	2.3820125	0.1227	-5.958e-6	0.0000501
(SC15	5.7835e-5	2.3852e-5	5.8796956	0.0153*	1.1087e-5	0.0001046
(SC16	8.4633e-6		0.5500071	0.4583	-0.000014	3.083e-5
(SC17 (SC18	-0.000024		2.2682317 4.8206103	0.1321 0.0281*	-5.539e-5 -4.92e-5	7.2542e-6 -2.789e-6
(SC18	-0.000026		4.8206103	0.0281*	-4.92e-5 -0.00004	-2.789e-6 1.7862e-5
(SC20	-4.669e-5		7.7745844	0.0053*	-7.951e-5	-1.387e-5
(SC21	0.0000254	0.0000128	3.9366303	0.0472*	3.0885e-7	5.048e-5
(SC22	1.8138e-5		2.4004444	0.1213	-4.807e-6	4.1082e-5
(SC24	-7.313e-6		0.4695722	0.4932	-2.823e-5	0.0000136
(SC25 (SC26	-2.511e-5 8.0263e-6		7.9602766	0.0048*	-4.255e-5 -1.123e-5	-7.666e-6 2.7285e-5
(SC26 (SC27	3.4886e-5		8.6676549	0.4140	-1.123e-5 1.1661e-5	2.7285e-5 5.8111e-5
(SC28	0.0001164		106.36999	<.0001*	9.4288e-5	0.0001385
(SC29	-4.189e-5	0.0000131	10.215917	0.0014*	-6.758e-5	-1.62e-5
(SC30	-0.00004		8.8858702	0.0029*	-6.622e-5	-1.368e-5
(SC31	3.0122e-5		11.011064	0.0009*	1.233e-5	4.7914e-5
(SC32 (SC34	4.2077e-5		4.8580125	0.0275*	4.6604e-6	0.0000795
		1,448265	0.1249005	0.7238	-3.35e-5	2.3266e-5
Vienersion	-5.118e-6	0 0007000	0.1249005	0.7238	-3.35e-5	2.3266e-5
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Numericalization of the second	1 3600034 2014 2015 2015 2015 2015 2015 2015 2015 2015	ssion for lig ssion for lig hood lightning.end Negative Bin None Log Identity 80471 37189 22134815 37189 271	24905742 gintal Predic mial elihood ginal Predic Wald ChiSquare 3.0321571 4.739450 23.777237 0.0071145 19.611087 9.853439 18.434428 23.90102 3.91023 2.9292444 3.0038732 0.0110762 0.011798 0.038732 0.110765 0.111798 0.038732 0.110765 0.111798 0.0535279 3.3605244 10.25566 8.3332476 8.3332476 1.404663 0.4217499 3.36052445 0.042144963	tors Frob > ChiSquare 0.0816 0.0295' <0001" 0.0810 0.0810 0.0810 0.0810 0.0831 0.001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <0001" <000	Lower 95% -1.745-66 -4.875-6 -8.183-6 -3.156-5 -3.156-5 -3.156-5 -3.156-5 -3.2891-6 -3.981-6 -3.981-6 -3.981-6 -3.981-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6 -0.00003 -2.662-6 -1.928-6	Upper 95% 2.9535e5 -0.000015 3.433e5 2.955e6 -0.000015 3.433e5 2.991e6 3.2158e5 0.000014 3.2158e5 0.000014 3.2158e5 0.000014 3.2158e5 0.000014 -0.000025 5.5237e5 0.000014 -0.000025 5.5237e5 0.000014 -0.000025 5.7237e5 0.0000369 1.4053e5 -7.218e6
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Variational eneralizitic codel Lau Maximu Model S Variational Codel Lau Variational Code Variational Code Va	1 96000000 red Regre: anch um Likelili ummary n Method Method Method lel Link Model Link Model Link Model Link Model Link Parameters anguencies 1 RSquare ter Estimate 0.0000139 -2.563-25 -5.837e5 -1.4165-e6 7.9922e5 -3.192-5 -3.192-5 -3.192-5 -3.192-5 -3.192-5 -3.192-5 -3.286-5 -4.6679-e6 -1.436-5 -0.00003 7.7129-6 -3.524-55 -3.059-66 -2.578-5 -5.4619-5 -3.8546-5 -3.059-66 -2.7872-5 -5.4619-5 -3.8546-5 -2.000139 -6.964-66 -2.518-5 -5.9.8611-5 -3.059-66 -2.7749-5 -0.000139 -6.946-66 -2.518-5 -5.9.8611-5 -3.059-66 -2.749-5 -0.000139 -6.946-66 -2.518-5 -5.9.8611-5 -2.048-5 -5.9.8611-5 -3.059-66 -2.749-5 -5.0000139 -3.245-5 -5.9.8611-5 -3.8546-5 -5.9.8611-5 -3.8546-5 -2.000139 -5.9.8611-5 -3.8546-5 -5.9.8611-5 -3.8546-5 -5.9.8611-5 -3.8546-5 -5.9.8611-5 -3.8546-5 -5.9.8611-5 -3.8546-5 -3.8546-5 -2.218-5 -5.9.8611-5 -3.8546-5 -5.9.8611-5 -3.8546-5 -5.9.8611-5 -3.8546-5 -2.218-5 -5.9.8611-5 -3.8546-5 -2.218-5 -5.9.8611-5 -3.8546-5 -2.218-5 -5.9.8611-5 -3.8546-5 -5.9.8611-5 -3.8546-5 -5.9.8611-5 -3.8546-5 -5.9.8611-5 -3.8546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.9546-5 -3.95	ssion for lightning.end Noeative Bind Washing States Ightning.end Maximum Lik None Log Identity 80471 37189 221348.15 33 44304359 44276237 0.0079336 ttes for Ori 5td Error 7.9797e6 1.0715e5 1.0715e5 1.0171e5 1.0171e5 1.4026e5 1.3188e5 1.4026e5 1.3188e5 1.4026e5 1.3188e5 1.4026e5 1.3188e5 1.4026e5 1.3188e5 1.4026e5 1.3188e5 1.4026e5 1.3188e5 1.4026e5 1.3188e5 1.4026e5 1.3318e5 1.0056e5 1.3338e5 1.0026e5 1.3338e5 1.0026e5 1.3378e5 1.0026e5 1.3378e5 1.0026e5 1.32788e5 1.3278e5 1	24905742 gintaineen mial elihood ginal Predic Wald ChSquare 3.0321571 4.739450 23.777237 0.0071145 19.611087 9.8534391 18.434428 23.901023 2.929244 10.93732 0.0071145 19.611087 9.8534391 18.434428 19.611087 9.8534391 4.2591965 0.1011798 0.555597 3.3605244 10.25566 8.3332476 1.4049683 0.04217459 1.52566 8.3332476 1.4049683 0.04217459 1.4049683 0.4049683 0.4049683	tors Prob > ChiSquare 0.0816 0.0295* <0001* 0.0870 0.0870 0.0870 0.0870 0.0870 0.0870 0.0870 0.0870 0.0392* 0.001* 0.0870 0.0392* 0.001* 0.0870 0.0392* 0.001* 0.0870 0.0392* 0.0516 0.025*	Lower 95% -1.745-66 -4.876-5 -5.1826-5 -5.1826-5 -5.1826-5 -5.1826-5 -5.1826-5 -5.1826-5 -5.1826-5 -5.1826-6 -4.8716-5 -5.1826-6 -4.8716-5 -5.1826-6 -4.8716-5 -5.1826-6 -4.8716-5 -5.1928-6 -6.4525-5 -2.2826-5 -1.9286-6 -0.00008 -0.0008 -0.00008 -0.0008	Upper 95% 2.9535e5 2.5555e6 -0.000012 9.1929e5 -0.0001153 -0.0001153 -0.0001153 -0.0000145 -0.000020 -0.00000000 -0.0000000
eneraliz eneraliz dodel Lau Maximu Vodel S lesponse lailation dean Mode lailation dean	1 960000 2014 2015 2015 2015 2015 2015 2015 2015 2015	ssion for lig ssion for lig hood lightning.end Negative Bin None Log Identity 221348.15 37189 221348.15 37189 221348.15 37189 221348.15 37189 221348.15 37189 221348.15 37189 221348.15 37189 221348.15 37189 221348.15 37189 221348.15 37189 221348.15 37189 221348.15 37189 221348.15 37197125 500000147 1.177265 1.187165 1.187265 1.187265 1.187265 1.173455 1	24905742 gintaineen mial elihood ginal Predic Wald ChSquare 3.0321571 4.739450 23.777237 0.0071145 19.611087 9.8534391 18.434428 23.901023 2.929244 10.93732 0.0071145 19.611087 9.8534391 18.434428 19.611087 9.8534391 4.2591965 0.1011798 0.555597 3.3605244 10.25566 8.3332476 1.4049683 0.04217459 1.52566 8.3332476 1.4049683 0.04217459 1.4049683 0.4049683 0.4049683	tors Prob > ChiSquare 0.0616 0.0255* <0001* 0.0325* <0001* 0.0330* 0.035* 0.03	Lower 95% -1.745e6 -4.87e5 -8.183e5 -3.15e5 -4.457e5 -4.487e5 -4.487e5 -4.487e5 -3.15e5 -4.4549e5 -3.176e5 -3.981e5 -3.981e5 -3.981e5 -3.981e5 -3.981e5 -3.981e5 -3.981e5 -3.981e5 -3.981e5 -4.871e5 -4.8	Upper 95% 2.9535c5 2.555c6 -0.0000153 3.4336c5 3.4336c5 3.4336c6 3.2158c5 3.0000153 5.5237c5 0.0001153 5.5237c5 0.0000153 5.5237c5 0.0000153 5.5237c5 0.0000153 5.7672c5 5.2119c5 0.0000296 5.1315c5 0.0000296 5.1315c5 0.0000299 5.5409c6 1.621c5

		ssion for lig	ghtning.end	I.1 BySenso	or=24	
odel Lau	uncn um Likelił	hood				
	ummary	1000				
Response	,	lightning.end	.1			
Distribution Estimation		Negative Bind	omial			
Validation		Maximum Lik None	elinood			
Mean Mod		Log				
Dispersion Measure	Model Link	Identity				
Number of	rows	88207				
Sum of Fre		36209				
-LogLikelił Number of	Parameters	215211.44 33				
BIC		430769.28				
AICc Generalized	d RSquare	430488.94 0.0104516				
			ginal Predic	tors		
Term	Estimate	Std Error	Wald ChiSquare	Prob > ChiSquare	Lower 95%	Upper 95%
KSC1	1.1625e-5	7.7224e-6	2.266123	0.1322	-3.511e-6	2.6761e-5
KSC2 KSC4	-3.964e-5 -4.044e-5		11.872402 12.434586	0.0006* 0.0004*	-6.218e-5 -0.000063	-0.000017 -0.000018
KSC5	-2.503e-6	1.6211e-5	0.02385	0.8773	-3.428e-5	2.9269e-5
KSC6 KSC7	6.8925e-5 -2.948e-5		15.982614	<.0001* 0.0036*	3.5134e-5 -4.932e-5	0.0001027 -9.629e-6
KSC7 KSC8	-2.948e-5 6.3718e-5		8.4729497 21.223884	<.00036*	-4.932e-5 0.0000366	-9.629e-6 9.0826e-5
KSC9	-6.826e-5		20.862649	<.0001*	-9.756e-5	-0.000039
KSC10 KSC11	0.0000281 -2.581e-5		7.3167154 4.0979539	0.0068* 0.0429*	7.739e-6 -5.079e-5	4.846e-5 -8.207e-7
KSC12	1.0338e-5	1.3268e-5	0.6071726	0.4359	-1.567e-5	3.6342e-5
KSC13 KSC14	-3.413e-5 2.3221e-5		7.8973217 2.8918747	0.0050*	-0.000058 -3.542e-6	-1.033e-5 4.9985e-5
KSC14 KSC15	0.0000218	2.295e-5	0.9019867	0.3422	-3.542e-0 -2.318e-5	6.6776e-5
KSC16	0.0000241	1.0865e-5	4.9180614	0.0266*	0.0000028	0.0000454
KSC17 KSC18	-0.000024 -8.663e-6		2.3918861 0.5656325	0.1220 0.4520	-5.449e-5 -3.124e-5	6.424e-6 1.3912e-5
KSC19	-7.883e-6	1.4216e-5	0.3074785	0.5792	-3.575e-5	1.998e-5
KSC20 KSC21	-4.15e-5		6.5063674 4.9530244	0.0107* 0.0260*	-7.339e-5 0.0000033	-9.612e-6
KSC21 KSC22	2.7661e-5 2.5656e-5		4.9530244 5.2086899	0.0225*	3.623e-6	5.2022e-5 4.7689e-5
KSC24	-2.457e-5	1.0079e-5	5.9419125	0.0148*	-4.432e-5	-4.814e-6
KSC25 KSC26	-1.751e-5 1.1522e-6		4.1724643 0.0146729	0.0411* 0.9036	-3.432e-5 -1.749e-5	-7.09e-7 0.0000198
KSC27	2.0834e-5	1.1346e-5	3.3715962	0.0663	-1.404e-6	4.3073e-5
KSC28 KSC29	0.0001159 -3.85e-5		109.41564 9.3127579	<.0001* 0.0023*	0.0000942 -6.322e-5	0.0001376 -1.377e-5
KSC30	-3.787e-5	1.2961e-5	8.5360768	0.0035*	-6.327e-5	-1.246e-5
KSC31 KSC32	0.0000284		11.03907 5.6297868	0.0009*	1.1648e-5	4.516e-5 7.861e-5
KSC32 KSC34	4.305e-5 -1.953e-5		1.9542939	0.0177* 0.1621	7.4888e-6 -0.000047	7.8519e-6
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odel Lat Maximu Model SI Response Dispersion Wean Mod Subersion Measure Number of Subersion Measure Number of Subersion Measure Paramet Paramet Rerm CSC1 CSC2 CSC3 CSC3 CSC3 CSC3 CSC3 CSC3 CSC3	Inch           um Likelif           ummary           n           Method           Method           lel Link           Model Link           rows           quencies           tood           rows           quencies           tood           0.0000209           5.12465           0.0000209           5.12465           0.00000203           3.012365           0.0000321           3.012365           1.26566           -1.26566           -2.87652           2.253766           -2.87765           0.0000371           -1.26566           -1.26566           0.0000371           -1.26566           0.253765           0.0000372           -1.272765           -2.08765	lightning.end Negative Bin Maximum Lik None Log Identity 73276 30478 179258.44 3358857.59 35858295 0.0145289 <b>Std Error</b> 8.3041e6 1.256e5 1.256e5 1.256e5 1.256e5 1.0138265 1.0141289 <b>Std Error</b> 1.03845 1.0141285 0.000011 1.44119e5 0.0000147 1.2536e5 1.27556 1.27556 1.27556 1.2755656 1.2755656 1.2755656 1.275	1 mial elihood ginal Predic Waid ChiSquare 6.3371113 16.64665 5.522177 2.120062 15.897373 11.87541146 0.888145 4.20019 20.402283 1.8741146 0.888145 4.20019 20.402283 1.3337767 0.0022336 0.0118723 3.76558381 13.90324 0.020472 2.7100505 7.963881	tors Prob > ChiSquare 0.0118 0.001* 0.1634 <0001* 0.0005* 0.0005* 0.0001* 0.0001* 0.0005* 0.0001* 0.0001* 0.0001* 0.0001* 0.0001* 0.0001* 0.0001* 0.000* 0.001* 0.001* 0.001* 0.001* 0.001* 0.000* 0.001* 0.000* 0.001* 0.000* 0	Lower 95% 4.6287-6 -7.586-5 -5.937-5 -2.652-5 -1.467-5 -1.467-5 -1.3145-6 -0.00011 -3.764-6 -8.772-5 -2.554-6 -8.772-5 -2.554-6 -3.7145 -2.554-6 -7.131-5 -2.534-6 -7.131-5 -2.834-5 -0.00003 -1.1367-5 -0.00003 -1.1367-5 -0.00003 -1.1367-5 -0.00003 -1.1367-5 -0.6459-6 -4.199-5	Upper 95% 3.718-5 2.638-6 0.000388 0.000110 8.1534-5 5.8932-5 3.463-5 8.3785-5 3.463-5 3.463-5 3.2875-5 3.2975-
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(SC2	-6.08e-5		25.638779	<.0001*	-8.434e-5	-3.727e-5
(SC4	-5.265e-5	1.113e-5	22.379982	<.0001*	-7.447e-5	-3.084e-5
KSC5 KSC6	0.0000366 7.3353e-5		4.724447 17.344958	0.0297* <.0001*	3.5963e-6 3.8832e-5	0.0000696 0.0001079
(SC7	-3.759e-5		12.67366	<.0001^ 0.0004*	-5.828e-5	-1.689e-5
(SC8	7.5979e-5	0.000014	29.417716	<.0001*	4.8523e-5	0.0001034
(SC9 (SC10	-0.000114 -8.652e-6		55.953864 0.6519289	<.0001* 0.4194	-0.000144 -2.965e-5	-0.000084 1.235e-5
(SC10	-8.652e-6 0.0000164		1.6285905	0.4194	-2.965e-5 -8.783e-6	4.1568e-5
(SC12	8.8588e-6	1.3318e-5	0.4424745	0.5059	-1.724e-5	3.4961e-5
(SC13 (SC14	-2.425e-5 6.2161e-5		3.854637 20.406035	0.0496* <.0001*	-4.845e-5 0.0000352	-4.148e-8 8.9131e-5
(SC14 (SC15	-5.304e-6		0.0506983	0.8219	-5.147e-5	4.0865e-5
(SC16	2.4214e-5	1.0657e-5	5.1627346	0.0231*	3.3271e-6	0.0000451
(SC17 (SC18	-5.265e-5 -2.338e-5		11.136106 4.0538337	0.0008* 0.0441*	-8.357e-5 -4.614e-5	-2.173e-5 -6.207e-7
(SC18	-2.338e-5		4.0538337	0.0441*	-4.014e-5 -4.574e-5	-0.207e-7 1.124e-5
(SC20	-2.879e-5	0.0000164	3.0800353	0.0793	-0.000061	3.3621e-6
(SC21 (SC22	2.6919e-5 3.8661e-5		4.2802354 11.553684	0.0386*	1.4171e-6 1.6368e-5	5.2421e-5 6.0954e-5
(SC24	-3.34e-5	1.0351e-5	10.409638	0.0013*	-5.368e-5	-1.311e-5
(SC25	7.937e-6		0.8750624 0.1999351	0.3496	-8.693e-6	2.4567e-5
(SC26 (SC27	-4.331e-6 -1.638e-5		2.0171414	0.6548	-2.332e-5 -0.000039	1.4654e-5 6.224e-6
(SC28	0.0001003	1.0759e-5	86.909668	<.0001*	7.9213e-5	0.0001214
(SC29 (SC30	-3.081e-5 -1.928e-5		6.2697662 2.2833169	0.0123* 0.1308	-0.000055 -4.429e-5	-6.693e-6 5.7282e-6
(SC31	3.4167e-5	8.1077e-6	17.758457	<.0001*	1.8276e-5	5.0057e-5
(SC32	2.8018e-5		2.7036727	0.1001	-5.379e-6	6.1416e-5
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Numerical odel Lau Maximu Model SZ kesponse berihubution van Model SZ herihubution Van Model Van Model Van Model Suberstin Van Model Sick Van Model Van Model Sick Van Model Sick Van Model Sick Van Model Van Model Sick Van Model Van	1 3050000 2010 2010 2010 2010 2010 2010 2010 2010	Bit         Bit           Bightning.end         Negative Bin           None         Log           Identity         91601           38460         23076552           38460         23076552           38460         23076552           10.0096032         A61879.44           461597.1         0.0096032           Std Error         7.713266           7.713265         0.0000112           1.6665e5         1.374785           1.041285         1.23288-5           1.2422e5         1.3422e5           1.2422e5         1.34665e5           1.2558e5         1.34665e5           1.2422e5         1.34665e5           1.2422e5         1.34665e5           1.2558e5         1.34665e5           1.24465e5         1.4463e5           1.4643e5         1.6443e5           0.000013         0.0000139           0.0000139         0.0000139           1.31665e5         1.34665e5           1.4643e5         1.6443e5           0.0000139         0.0000139	25320734 ghtning.env II.1 pmial ellihood ginal Predic Wald ChiSquare 5.320495 26.02731 16.01307 9.5872081 48.131175 2.3748504 0.0382172 16.013067 9.5872081 48.131175 2.3748504 0.0382172 1.590616 18.74333 0.5420792 1.8665409 0.079779 0.6364833 2.7555903 6.121904	tors Prob > ChiSquare 0.021* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.000*	Lower 95% 2.6746e6 -0.00003 -2.734e6 -0.00003 -0.000158 -0.000058 -0.000058 -0.000058 -0.000058 -0.000058 -0.000058 -0.000058 -3.374e5 -9.583e6 -0.000058 -3.774e5 -3.3243e5 -3.27425 -3.3243e5 -3.27425 -3.3243e5 -3.3243e5 -3.3243e5 -3.3243e5 -3.3243e5 -3.3243e5 -3.3243e5 -3.3243e5 -3.3288e6 -3.77553e6 -3.37885 -3.3888e6 -3.75553e6 -3.3888e6 -3.75553e6 -3.3888e6 -3.75553e6 -3.3888e6 -3.75553e6 -3.3888e6 -3.75553e6 -3.37885 -3.3888e6 -3.75553e6 -3.3888e6 -3.75553e6 -3.3888e6 -3.75553e6 -3.3888e6 -3.75553e6 -3.5888e6 -3.575553e6 -3.5888e6 -3.575555 -3.3888e6 -3.575555 -3.3888e6 -3.575555 -3.3888e6 -3.575555 -3.5888e6 -3.575555 -3.5888e6 -3.575555 -3.5888e6 -3.575555 -3.5888e6 -3.575555 -3.5888e6 -3.575555 -3.5888e6 -3.575555 -3.5888e6 -3.575555 -3.5888e6 -3.575555 -3.588866 -3.575555 -3.588866 -3.575555 -3.588866 -3.575555 -3.588866 -3.575555 -3.588866 -3.57555 -3.588866 -3.575555 -3.588866 -3.575555 -3.588866 -3.575555 -3.588866 -3.575555 -3.588866 -3.575555 -3.588866 -3.575555 -3.588866 -3.575555 -3.588866 -3.575555 -3.588866 -3.5755555 -3.588866 -3.5755555555555555555555555555555555555	Upper 95% 0.000329 -3.688-5 -2.576-5 0.000026 0.000124 -7.512-5 0.000014 -4.4526-5 -3.6525-5 0.0000124 -7.512-5 0.000014 -4.4526-5 -3.618-
Numerical odel La Maximu Model S. Response Jostribution Starbution Starbution Veam Model S. Number of JiC JiC JiC JiC JiC JiC JiC JiC JiC JiC	1 2020000 202000000000000000000000000000	B 0.0027056           ssion for lightning.end           None           Log           Jene 1           91601           38460           230765.2           38460           230765.2           38460           230765.2           38460           230765.2           38460           230705.2           Std Error           7.7132e6           1.714e5           1.0665e5           1.7172e5           1.22745           1.3422e5           1.3422e5           1.3422e5           1.3422e5           1.342e5           1.342e5 <t< td=""><td>25320734 ginai Predic miai elihood</td><td>L1 BySense L1 BySense ChiSquare 0.0211* &lt;.0001* 0.0225 &lt;.0001* 0.0225 &lt;.0001* 0.0225 &lt;.0001* 0.0225 &lt;.0001* 0.0226 0.02157 0.4616 0.2157 0.4616 0.2157 0.4616 0.2157 0.4616 0.2157 0.0548 0.2817 &lt;.0001*</td><td>Lower 95% 2.6746e6 0.00003 -6.945e5 -2.734e6 -0.000018 -0.00018 -0.00018 -3.77e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.2746 -3.274e5 -3.2746</td><td>Upper 95% 0.000329 -2.557e5 0.000028 -7.512e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 -3.61285 -5.71585 -3.612</td></t<>	25320734 ginai Predic miai elihood	L1 BySense L1 BySense ChiSquare 0.0211* <.0001* 0.0225 <.0001* 0.0225 <.0001* 0.0225 <.0001* 0.0225 <.0001* 0.0226 0.02157 0.4616 0.2157 0.4616 0.2157 0.4616 0.2157 0.4616 0.2157 0.0548 0.2817 <.0001*	Lower 95% 2.6746e6 0.00003 -6.945e5 -2.734e6 -0.000018 -0.00018 -0.00018 -3.77e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.2746 -3.274e5 -3.2746	Upper 95% 0.000329 -2.557e5 0.000028 -7.512e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 -3.61285 -5.71585 -3.612
Numerical odel Lau Maximu Vicole 3X bisributiori bisributiori bisributiori bisributiori bisributiori bisributiori bisribution	1 3050000 2010 2010 2010 2010 2010 2010 2010 2010	B 0.027065           ssion for lightning.end           lightning.end           None           Log           Identity           91601           38460           2307657           33           46187944           44515971           0.0090032           std Error           7.7132-66           1.7178-55           0.0000112           1.0412-55           1.0432-55           1.2432-55           1.2432-55           1.2442-55           1.44635-55           1.44635-55           1.44635-55           1.44635-55           1.44635-55           1.44635-55           1.44635-55           1.44635-55           1.44635-55           1.44635-55           1.44635-55           1.44635-55           1.44635-55           1.44635-55           1.44735-55           1.44735-55           1.44635-55           1.44735-55           1.44735-55           1.44735-55           1.44735-55           1.44745-55	15.300 734 gintaing.env iii ginal Predic Wald ChiSquare 5.320495 26.02731 18.013028 3.2253856 27.80827 7.80827 16.015067 9.5872081 48.131175 2.3748504 0.032172 1.590616 18.74338 1.865409 0.079779 0.6364833 1.865409 0.079799	L1 BySense L1 BySense Tors Prob > ChiSquare 0.021* <.0001* <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0725 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.0755 <.0001* 0.00001* 0.00000* 0.0000* 0.0000* 0.0000* 0.0000* 0.0000* 0.0000* 0.0000* 0.0000* 0.0000* 0.0000* 0.0000* 0.0000* 0.00	Lower 95% 2.6746e-6 -0.00003 -0.000158 -0.0000158 -0.0000158 -0.0000158 -0.0000158 -0.0000158 -0.0000158 -0.0000158 -0.0000158 -0.0000158 -0.0000158 -0.0000158 -0.0000055 -0.0000055 -0.0000056 -0.0000055 -0.24256-5 -0.32742-5 -0.32	Upper 95% 0.000329 -3.688-5 -2.575-5 0.000626 0.000124 -2.126-5 0.000073 -2.126-5 0.000073 -2.126-5 0.000073 -2.126-5 0.000073 -2.126-5 0.000073 -2.126-5 -3.62526-5 0.000024 4.3671-5 -3.62526-5 -3.6232-6 -3.6242-6 -3.6422-642-
Numerical odel La Maximu Model SX Response Distribution Sistimation Veam Model Sistimation Veam Model Naca Barnenalizec Casta	1 2020000 202000000000000000000000000000	Bightning.end           None           Log           lightning.end           None           Log           identity           91601           38460           230765.2           38460           230765.2           38460           230765.2           38460           230765.2           38460           230765.2           38460           230765.2           38460           230765.2           38460           230700012           1.77425           1.77425           1.25865           1.257825           1.252825           1.34225           1.34225           1.34225           1.34225           1.34245           1.34255           0.000013           0.000012           1.34255           1.34255           0.000013           0.000013           0.000013           0.000013           0.000013           0.000013           0.00013 <td< td=""><td>25320734 ginai Predic miai elihood</td><td>L1 BySense L1 BySense ChiSquare 0.0211* &lt;.0001* 0.0225 &lt;.0001* 0.0225 &lt;.0001* 0.0225 &lt;.0001* 0.0225 &lt;.0001* 0.0226 0.02157 0.4616 0.2157 0.4616 0.2157 0.4616 0.2157 0.4616 0.2157 0.0548 0.2817 &lt;.0001*</td><td>Lower 95% 2.6746e6 0.00003 -6.945e5 -2.734e6 -0.000018 -0.00018 -0.00018 -3.77e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.2746 -3.274e5 -3.2746</td><td>Upper 95% 0.000329 -2.557e5 0.000028 -7.512e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 -3.61285 -5.71585 -3.612</td></td<>	25320734 ginai Predic miai elihood	L1 BySense L1 BySense ChiSquare 0.0211* <.0001* 0.0225 <.0001* 0.0225 <.0001* 0.0225 <.0001* 0.0225 <.0001* 0.0226 0.02157 0.4616 0.2157 0.4616 0.2157 0.4616 0.2157 0.4616 0.2157 0.0548 0.2817 <.0001*	Lower 95% 2.6746e6 0.00003 -6.945e5 -2.734e6 -0.000018 -0.00018 -0.00018 -3.77e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.274e5 2.9782e5 -3.2746 -3.274e5 -3.2746	Upper 95% 0.000329 -2.557e5 0.000028 -7.512e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 0.0000124 -2.126e5 -3.61285 -5.71585 -3.612
Numerical eneralization Model SA Vesponse Distribution Subribution Subribution Subribution Subribution Heam Model Subribution	1 3050000 1 2000000 1 2000000 1 20000000 1 2000000000 1 2000000000000000000000000000000000000	Bightning.end           Noor           lightning.end           Negative.Bin.           None           Log           Identity           10002           23076552           38460           23076552           38460           23076552           38460           23076552           38461           0.0096032           ttes for Ori           5td Error           7.713265           1.7478-5           1.04726-5           1.32742-5           1.32242-5           1.32422-5           1.32422-5           1.3422-5           0.0000131           1.04332-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5 <t< td=""><td>25.29 724 ghtning.env i.1 mial elihood ginal Predic Wald ChiSquare 5.320495 26.02731 18.013028 3.225383 2.6.01507 9.5872081 48.131175 2.3748504 0.5827673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427753 0.5427753 0.5427753 0.6364433 2.7553003 6.121904 0.246795 0.7106704 1.4326372 2.2235911 6.2058171</td><td>tors Prob &gt; ChiSquare 0.021* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.020* 0.020* 0.020* 0.025* 0.001* 0.020* 0.020* 0.000* 0.020* 0.000* 0.020* 0.000</td><td>Lower 95% 2.6746e6 -0.000083 -6.945e5 -2.734e6 -0.0000158 -0.0000158 -0.0000158 -3.372e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.3288e6 -3.3782 -3.3288e6 -3.3782 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.32886 -3.33745 -3.33745 -3.33745 -0.000025 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.0005 -0.0005 -0.0005 -0.0005 -0.00005 -0.00005 -0.0005 -0.0005 -0.0005 -0.00005 -0.00005 -0.00005 -0.0005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.0005 -0.0005 -0.0005 -0.00005 -0.0005 -0</td><td>Upper 95% 0.000329 -3.688-5 -2.557-5 0.000024 -2.126-5 0.0000124 -2.126-5 0.0000124 -2.126-5 -3.6525-5 0.0000124 -2.126-5 -3.6525-5 0.0000124 -2.126-5 -3.618-5 -6.633-6 2.4263-5 -3.618-5 -6.633-6 2.4263-5 -3.618-5 -6.633-6 2.4263-5 -3.618-5 -6.633-6 -2.4263-5 -3.618-5 -6.633-6 -2.4263-5 -3.4282-5 -3.4482-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4482-5 -3.4282-5 -3.4482-</td></t<>	25.29 724 ghtning.env i.1 mial elihood ginal Predic Wald ChiSquare 5.320495 26.02731 18.013028 3.225383 2.6.01507 9.5872081 48.131175 2.3748504 0.5827673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427753 0.5427753 0.5427753 0.6364433 2.7553003 6.121904 0.246795 0.7106704 1.4326372 2.2235911 6.2058171	tors Prob > ChiSquare 0.021* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.020* 0.020* 0.020* 0.025* 0.001* 0.020* 0.020* 0.000* 0.020* 0.000* 0.020* 0.000	Lower 95% 2.6746e6 -0.000083 -6.945e5 -2.734e6 -0.0000158 -0.0000158 -0.0000158 -3.372e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.3288e6 -3.3782 -3.3288e6 -3.3782 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.32886 -3.33745 -3.33745 -3.33745 -0.000025 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.0005 -0.0005 -0.0005 -0.0005 -0.00005 -0.00005 -0.0005 -0.0005 -0.0005 -0.00005 -0.00005 -0.00005 -0.0005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.0005 -0.0005 -0.0005 -0.00005 -0.0005 -0	Upper 95% 0.000329 -3.688-5 -2.557-5 0.000024 -2.126-5 0.0000124 -2.126-5 0.0000124 -2.126-5 -3.6525-5 0.0000124 -2.126-5 -3.6525-5 0.0000124 -2.126-5 -3.618-5 -6.633-6 2.4263-5 -3.618-5 -6.633-6 2.4263-5 -3.618-5 -6.633-6 2.4263-5 -3.618-5 -6.633-6 -2.4263-5 -3.618-5 -6.633-6 -2.4263-5 -3.4282-5 -3.4482-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4482-5 -3.4282-5 -3.4482-
Numerical enercalization del Lau Maximu Model SL Response Distribution Versitemation Ver	1 362000 2010 2010 2010 2010 2010 2010 2010 2010	B 0.027065           Ssion for lightning.end           Iood           Iightning.end           Negative Bind           Maximum Lik           None           Log           Identity           91601           38460           2307652           Std Error           7.7132-66           1.7778-5           0.000012           1.2432-5           1.2412-5           1.3274-5           1.3242-5           1.3242-5           1.3422-5           1.3422-5           1.3422-5           1.3422-5           1.3242-5           1.3242-5           1.32246-5           1.312-5           1.44633-5           1.44633-5           1.4473-5           0.0000112           1.0174-5           3.3776-6           1.1619-5           1.12122-5           0.000012           1.0174-5           1.1619-5           1.1619-5           1.1222-5           1.1619-5           1.1222-5           1.1222-5 <td>15.30 734 ghtning.env i.1 amial ellihood ginal Predia Wald ChiSquare 5.320495 26.02731 18.013028 3.2253836 2.253836 2.253836 2.253836 2.264074 9.5872061 9.5872061 9.5872061 9.5872061 9.5872061 0.032172 7.465133 0.642032 7.755303 0.079779 0.6364833 2.755303 0.079779 0.6364833 2.755303 0.079779 0.6364833 2.755303 0.079779 0.6364833 2.755303 0.07716 0.077179 0.6364833 2.755303 0.07717 0.032172 2.2235911 1.590616 1.874328 2.225517 1.526572 2.2235911 1.526572 2.2235911 2.2355911 2.23559</td> <td>L1 BySense L1 BySense Prob &gt; ChiSquare 0.021* 0.021* 0.020* 0.000</td> <td>Lower 95% 2.6746e-6 -0.00008 -0.000134 -4.37e6 -3.312e5 -0.00002 -3.312e5 -0.0000134 -4.37e6 -3.312e5 -0.0000134 -4.627e5 -3.314e5 -0.00005 -3.312e5 -0.000025 -3.312e5 -0.32146 -0.32146 -0.32146 -0.32146 -0.32146 -0.32146 -0.32146 -0.32</td> <td>Upper 95% 0.000329 -3.688e5 -2.557e5 0.000626 0.000024 -2.557e5 0.0000626 0.000024 -3.618e5 -</td>	15.30 734 ghtning.env i.1 amial ellihood ginal Predia Wald ChiSquare 5.320495 26.02731 18.013028 3.2253836 2.253836 2.253836 2.253836 2.264074 9.5872061 9.5872061 9.5872061 9.5872061 9.5872061 0.032172 7.465133 0.642032 7.755303 0.079779 0.6364833 2.755303 0.079779 0.6364833 2.755303 0.079779 0.6364833 2.755303 0.079779 0.6364833 2.755303 0.07716 0.077179 0.6364833 2.755303 0.07717 0.032172 2.2235911 1.590616 1.874328 2.225517 1.526572 2.2235911 1.526572 2.2235911 2.2355911 2.23559	L1 BySense L1 BySense Prob > ChiSquare 0.021* 0.021* 0.020* 0.000	Lower 95% 2.6746e-6 -0.00008 -0.000134 -4.37e6 -3.312e5 -0.00002 -3.312e5 -0.0000134 -4.37e6 -3.312e5 -0.0000134 -4.627e5 -3.314e5 -0.00005 -3.312e5 -0.000025 -3.312e5 -0.32146 -0.32146 -0.32146 -0.32146 -0.32146 -0.32146 -0.32146 -0.32	Upper 95% 0.000329 -3.688e5 -2.557e5 0.000626 0.000024 -2.557e5 0.0000626 0.000024 -3.618e5 -
Numerical eneralization Model SA Vesponse Distribution Subribution Subribution Subribution Subribution Heam Model Subribution	1 3050000 1 2000000 1 2000000 1 20000000 1 2000000000 1 2000000000000000000000000000000000000	0.002706           ssion for light           tood           lightning.end           Negative Bin           Maximum Lik           None           Log           Identity           23076552           38460           23076552           38460           23076552           38460           23076552           38460           23076552           38460           2307666           1.77425           1.77425           1.342255           1.34255           3.370666           9.602766 <td>25.29 724 ghtning.env i.1 mial elihood ginal Predic Wald ChiSquare 5.320495 26.02731 18.013028 3.225383 2.6.01507 9.5872081 48.131175 2.3748504 0.5827673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427753 0.5427753 0.5427753 0.6364433 2.7553003 6.121904 0.246795 0.7106704 1.4326372 2.2235911 6.2058171</td> <td>tors Prob &gt; ChiSquare 0.021* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.020* 0.020* 0.020* 0.025* 0.001* 0.020* 0.020* 0.000* 0.020* 0.000* 0.020* 0.000</td> <td>Lower 95% 2.6746e6 -0.000083 -6.945e5 -2.734e6 -0.0000158 -0.0000158 -0.0000158 -3.372e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.3288e6 -3.3782 -3.3288e6 -3.3782 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.32886 -3.33745 -3.33745 -3.33745 -0.000025 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.0005 -0.0005 -0.0005 -0.0005 -0.00005 -0.00005 -0.0005 -0.0005 -0.0005 -0.00005 -0.00005 -0.00005 -0.0005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.0005 -0.0005 -0.0005 -0.00005 -0.0005 -0</td> <td>Upper 95% 0.000329 -3.688-5 -2.557-5 0.000024 -2.126-5 0.0000124 -2.126-5 0.0000124 -2.126-5 -3.6525-5 0.0000124 -2.126-5 -3.6525-5 0.0000124 -2.126-5 -3.618-5 -6.633-6 2.4263-5 -3.618-5 -6.633-6 2.4263-5 -3.618-5 -6.633-6 2.4263-5 -3.618-5 -6.633-6 -2.4263-5 -3.618-5 -6.633-6 -2.4263-5 -3.4282-5 -3.4482-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4482-5 -3.4282-5 -3.4482-</td>	25.29 724 ghtning.env i.1 mial elihood ginal Predic Wald ChiSquare 5.320495 26.02731 18.013028 3.225383 2.6.01507 9.5872081 48.131175 2.3748504 0.5827673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427673 0.5427753 0.5427753 0.5427753 0.6364433 2.7553003 6.121904 0.246795 0.7106704 1.4326372 2.2235911 6.2058171	tors Prob > ChiSquare 0.021* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.001* 0.020* 0.020* 0.020* 0.020* 0.025* 0.001* 0.020* 0.020* 0.000* 0.020* 0.000* 0.020* 0.000	Lower 95% 2.6746e6 -0.000083 -6.945e5 -2.734e6 -0.0000158 -0.0000158 -0.0000158 -3.372e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.324e5 -3.3288e6 -3.3782 -3.3288e6 -3.3782 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.3288e6 -3.32745 -3.32886 -3.33745 -3.33745 -3.33745 -0.000025 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.0005 -0.0005 -0.0005 -0.0005 -0.00005 -0.00005 -0.0005 -0.0005 -0.0005 -0.00005 -0.00005 -0.00005 -0.0005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.00005 -0.0005 -0.0005 -0.0005 -0.00005 -0.0005 -0	Upper 95% 0.000329 -3.688-5 -2.557-5 0.000024 -2.126-5 0.0000124 -2.126-5 0.0000124 -2.126-5 -3.6525-5 0.0000124 -2.126-5 -3.6525-5 0.0000124 -2.126-5 -3.618-5 -6.633-6 2.4263-5 -3.618-5 -6.633-6 2.4263-5 -3.618-5 -6.633-6 2.4263-5 -3.618-5 -6.633-6 -2.4263-5 -3.618-5 -6.633-6 -2.4263-5 -3.4282-5 -3.4482-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4282-5 -3.4482-5 -3.4282-5 -3.4482-
Analysis and a second s	1 3050000 2010 2010 2010 2010 2010 2010 2010 2010	0.002706           ssion for light           tood           lightning.end           Negative Bin           Maximum Lik           None           Log           Identity           23076552           38460           23076552           38460           23076552           38460           23076552           38460           23076552           38460           2307666           1.77425           1.77425           1.342255           1.34255           3.370666           9.602766 <td>15.39 0734 ghtning.env int mial elihood ginal Predic Wald ChiSquare 5.320405 26.02731 18.013028 3.225385 26.02731 18.013028 3.225385 26.02731 18.013028 3.225385 26.02731 18.013028 3.225385 26.02731 18.013028 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.255380 3.</td> <td><pre>Loop1* L1 BySense L1 BySense ChiSquare 0.001* 0.000* 0.001*</pre></td> <td>Lower 95% 2.6746-6 -0.00038 -6.945-5 -2.7346-6 -0.00038 -6.945-5 -2.7346-6 -0.000018 -3.3726-5 -9.583-6 -0.000018 -3.3726-5 -3.3243-5 -3.3315-5 -0.000025 -4.536-5 -0.000025</td> <td>Upper 95% 0.000329 -3.688-5 -2.577-5 0.000026 0.000028 -3.6525-5 0.0000124 -2.126-5 -3.6525-5 0.000014 4.2525-5 1.45865-5 3.6023-6 5.3618-5 -6.633-6 2.4263-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4476-6 0.000114 -8.932-6 5.4457-6</td>	15.39 0734 ghtning.env int mial elihood ginal Predic Wald ChiSquare 5.320405 26.02731 18.013028 3.225385 26.02731 18.013028 3.225385 26.02731 18.013028 3.225385 26.02731 18.013028 3.225385 26.02731 18.013028 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.225385 3.255380 3.	<pre>Loop1* L1 BySense L1 BySense ChiSquare 0.001* 0.000* 0.001*</pre>	Lower 95% 2.6746-6 -0.00038 -6.945-5 -2.7346-6 -0.00038 -6.945-5 -2.7346-6 -0.000018 -3.3726-5 -9.583-6 -0.000018 -3.3726-5 -3.3243-5 -3.3315-5 -0.000025 -4.536-5 -0.000025	Upper 95% 0.000329 -3.688-5 -2.577-5 0.000026 0.000028 -3.6525-5 0.0000124 -2.126-5 -3.6525-5 0.000014 4.2525-5 1.45865-5 3.6023-6 5.3618-5 -6.633-6 2.4263-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4655-5 1.4476-6 0.000114 -8.932-6 5.4457-6

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IVIANIIII	um Likelił	nood				
	ummary					
Response		lightning.end.				
Distribution Estimation		Negative Bino Maximum Like				
Validation		None	ennood			
Mean Mod		Log				
Dispersion Measure	Model Link	Identity				
Number of	rows	87688				
Sum of Fre	quencies	37095				
<ul> <li>LogLikelih</li> <li>Number of</li> </ul>	Parameters	219400.86 33				
BIC		439148.92				
AICc Generalized	d RSquare	438867.77 0.0127942				
		tes for Orig	ginal Predic	tors		
T	E-P	614 F	Wald	Prob >	0.59/	11 05%
Term Intercept	Lstimate 4.9419117	Std Error 0.0062281	ChiSquare 629624.72	ChiSquare <.0001*	Lower 95% 4.9297049	Upper 95% 4.9541185
KSC1	1.9968e-5		6.7953802	0.0091*	4.9547e-6	3.4981e-5
KSC2	-7.381e-5		39.226539	<.0001*	-0.000097	-5.071e-5
KSC4 KSC5	-0.000035 4.5937e-5		10.074559 7.6539202	0.0015* 0.0057*	-5.664e-5 0.0000134	-1.339e-5 7.8481e-5
KSC6	0.0000775	0.0000175	19.607723	<.0001*	0.0000432	0.0001118
KSC7	-4.158e-5		16.095548	<.0001*	-6.19e-5	-2.127e-5
KSC8 KSC9	6.8245e-5 -0.000126		24.166624 69.184356	<.0001* <.0001*	4.1036e-5 -0.000156	9.5453e-5 -9.639e-5
KSC10	-1.138e-5		1.1553473	0.2824	-3.212e-5	9.3685e-6
KSC11	1.8017e-5	1.2574e-5	2.0530871	0.1519	-6.628e-6	4.2662e-5
KSC12 KSC13	2.9696e-6		0.0515154 0.4064974	0.8204 0.5238	-2.267e-5 -0.000032	2.8613e-5 1.6275e-5
KSC13 KSC14	0.000051		14.671492	0.0238	0.000032	0.0000771
KSC15	1.848e-5	2.3343e-5	0.6267205	0.4286	-2.727e-5	6.4231e-5
KSC16 KSC17	1.3177e-5		1.5317169 21.736031	0.2159 <.0001*	-7.691e-6 -0.000102	3.4045e-5 -4.162e-5
KSC17 KSC18	-7.181e-5	010000101	6.662567	<.0001^ 0.0098*	-0.000102 -5.086e-5	-4.162e-5 -6.958e-6
KSC19	-3.686e-6	1.4355e-5	0.0659311	0.7974	-3.182e-5	2.4449e-5
KSC20	-2.72e-5		2.8372485	0.0921	-5.885e-5	4.4497e-6
KSC21 KSC22	0.000027		4.3937382 8.9765935	0.0361* 0.0027*	1.7536e-6 1.138e-5	5.2237e-5 5.4434e-5
KSC24	-1.731e-5	9.8897e-6	3.0629181	0.0801	-3.669e-5	2.0753e-6
(SC25 (SC26	5.3224e-6 -9.575e-7		0.4467932	0.5039	-1.028e-5 -1.952e-5	2.0929e-5 0.0000176
(SC26 (SC27	-9.575e-7 -8.552e-6		0.0102203	0.9195	-1.952e-5 -3.077e-5	0.00001/6 1.3668e-5
(SC28	9.3271e-5	0.0000107	76.090269	<.0001*	7.2314e-5	0.0001142
(SC29	-3.687e-5		9.6472669	0.0019*	-6.014e-5	-1.36e-5
KSC30 KSC31	-2.876e-5 0.0000325		5.3032345 16.350307	0.0213* <.0001*	-5.323e-5 1.6743e-5	-4.282e-6 4.8243e-5
KSC32	3.8111e-5	1.6845e-5	5.1184263	0.0237*	5.0945e-6	7.1127e-5
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alidation Aean Moc Vispersion Aeasure Jumber of LogLikelik Jumber of IC LICc ieneralizer Paramet erm	Method Jel Link Model Link rows quencies nood Parameters d RSquare ter Estima Estimate	Log Identity 89728 37103 223750.53 33 447848.28 447567.13 0.0126544 tes for Orig	Wald	Prob >	Lower 95% 5.070606	<b>Upper 95%</b> 5.0959607
'alidation Aean Moc Dispersion <b>Aeasure</b> Jumber of Jum of Fre LogLikelik Jumber of IIC Generalized <b>Parame</b> <b>Parame</b> Term htercept SC1	Method Iel Link Model Link rows quencies nood Parameters d RSquare ter Estimate 5.0832834 -7.87e-6	Log Identity 89728 37103 223750.53 33 447848.28 447567.13 0.0126544 tes for Orig Std Error 0.0064682 8.1207e6	Wald ChiSquare 617629.06 0.9392586	Prob > ChiSquare <.0001* 0.3325	5.070606 -2.379e-5	5.0959607 8.0461e-6
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/alidation //ean Moc Dispersion //easure //umber of Jum of Fre LogLikelif //umber of SIC //icc Beneralizer //acc //iccc //icc //icc //icc	Method lel Link Model Link rows quencies nood Parameters d RSquare <b>ter Estimate</b> 5.0832834 -7.87e6 -2.484e6 -1.053e5 5.3064e5 3.4175e6 -4.586e5 0.0001008 -0.000126	Log Identity 87728 37103 32 447567.13 0.0126544 <b>tes for Orig</b> <b>Std Error</b> 0.0064682 8.1207e6 0.0000122 0.0000121 1.7672e5 1.191525 1.1925e5	Wald ChiSquare 617629.06 0.9392586 0.0414201 0.8839596 9.016715 0.0362454 17.322295 52.354942 66.08979	Prob > ChiSquare <.0001* 0.3325 0.8387 0.3471 0.0027* 0.8490 <.0001* <.0001*	5.070606 -2.379e5 -2.64e5 -3.247e5 -3.177e5 -6.745e5 7.3464e5 -0.000157	5.0959607 8.0461e6 2.1435e5 1.1416e5 0.0000877 0.0000886 -2.426e5 0.000128 -9.576e5
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Validation Mean Moc Dispersion Number of Sum of Free LogLikelik Number of BIC AICC Beneralized Paramet Term Intercept (SSC1 CSC2 CSC4 CSC5 CSC5 CSC5 CSC5 CSC5 CSC5 CSC5	Method lel Link Model Link rows quencies ood Parameters d RSquare <b>ter Estimate</b> 5.0832834 -7.87e6 -1.053e5 3.4175e6 -2.484e6 -0.000126 -3.397e6 -3.397e6 -1.557e5 6.9521e5	Log Identity 87728 37103 22375053 344784828 44756713 0.0126544 tes for Orig Std Error 0.0064682 0.000012 0.000012 0.000012 0.000012 1.7672e5 1.3925e5 1.3925e5 1.3212e5 1.3212e5 1.3417e5	Wald ChiSquare 61762906 0.9392586 0.0414201 0.8839596 9.016715 0.0362454 17.322295 52.354942 66.08979 0.2313465 3.1519487 0.1201264 1.4922314 25.480968	Prob > ChiSquare <.0001* 0.3325 0.8387 0.3471 0.0027* <.0001* <.0001* 0.6305 0.0758 0.7289 0.2219 <.0001*	5.070606 -2.379e5 -2.64e5 -3.247e5 1.8428e5 -6.745e5 7.3464e5 -0.000157 -2.739e5 -2.477e6 -0.000022 -4.08e5 4.2528e5	5.0959607 8.0461e6 2.1435e5 1.1416e5 0.0000877 0.000087 0.000087 0.000088 -2.426e5 0.000128 -9.576e5 0.000128 -9.576e5 0.0000166 5.0117e5 3.1362e5 9.4702e6 9.6515e5
Validation Mean Moc Dispersion Number of Sum of Fre LogLikelik Number of BIC AlCc Generalizer Paramer Term Intercept KSC1 KSC2 KSC4 KSC5 KSC6 KSC6 KSC6 KSC6 KSC6 KSC6 KSC7 KSC1 KSC13 KSC13 KSC13 KSC13	Method lel Link Model Link rows quencies nood Parameters d RSquare <b>ter Estimate</b> 5.083284 5.083284 5.083284 5.083284 5.083284 5.3064e5 5.3064e5 5.3064e5 5.3064e5 5.3064e5 5.30764 2.382e5 5.3064e5 5.30764 5.3976 5.3976 5.3976 5.3976 5.3976 5.3976 5.392165	Log Identity 87728 37103 22375053 32375053 344784428 44756713 0.0126544 <b>tes for Orig</b> <b>Std Error</b> 0.0064682 8.1207-6 0.000012 1.76772-5 1.128255 1.12822-5 1.12822-5 1.241725 0.0000136	Wald ChiSquare 61762906 0.9392586 0.0414201 0.8839596 9.016715 0.0362454 17.322295 52.354942 66.08979 0.2313465 3.1519487 0.1201264 1.4922314 25.480968 0.0193961	Prob > ChiSquare <.0001* 0.3325 0.8387 0.3471 0.0027* 0.8490 <.0001* <.0001* <.0001* 0.6305 0.7289 0.2219	5.070606 -2.379e5 -3.247e5 -3.247e5 -3.177e5 -6.745e5 -3.177e5 -0.000157 -2.739e5 -2.477e6 -0.000022 -4.08e5	5.0959607 8.0461e6 2.1435e5 1.1416e5 0.000037 0.000038 -2.426e5 0.000128 -9.576e5 0.000128 -9.576e5 3.1362e5 9.4702e6 9.4702e6 9.6515e5 9.43877e5
Validation Mean Moc Dispersion Measure Number of Sum of Fre- LogLikelik Number of BIC AICc Generalizer Paramet Term Intercept KSC1 KSC2 KSC4 KSC5 KSC6 KSC7 KSC6 KSC7 KSC13 KSC14 KSC15 KSC16 KSC14 KSC14 KSC14 KSC14 KSC14 KSC14 KSC14 KSC14 KSC14 KSC16 KSC17 KSC16 KSC17 KSC16 KSC17 KSC16 KSC17 KSC16 KSC17 KS	Method lel Link Model Link rows quencies nood Parameters d RSquare <b>ter Estimate</b> 5.083283 7.8766 - 1.053e5 5.3064e5 3.34175e6 - 4.586e5 0.000126 - 3.382e5 4.71266 - 1.557e5 6.3322e5 - 3.357e5 - 3	Log Identity 89728 37103 22375053 32375053 344784428 44756713 0.0126544 <b>tes for Oris</b> <b>Std Fror</b> 0.0064826 8.12076 0.0000122 0.0000122 0.0000122 1.7672e5 1.302155 1.3221e5 1.321255 1.32172e5 1.32172e5 1.3772e5 1.3772e5	Wald ChiSquare 617629.06 0.9392586 0.0414201 0.8839596 9.016715 0.0362454 17.322295 52.354942 66.08979 0.2313465 3.1519487 0.1201264 1.4922314 4.54.80968 0.0193961 7.3821198 2.3.135225	Prob > ChiSquare <.0001* 0.3325 0.8387 0.3471 0.0027* 0.8490 <.0001* <.0001* 0.6305 0.0758 0.7289 0.2219 <.0001* 0.8882 0.0001* <.0001*	5.070606 -2.379e5 -2.64e5 -3.247e5 -3.177e5 -6.745e5 -3.177e5 -0.000157 -2.739e5 -2.477e6 -0.000022 -4.08e5 -5.059e5 -5.031e5 -0.00018	5.0959607 8.0461e6 2.1435e5 1.1416e5 0.000087 -2.426e5 0.000128 -9.576e5 9.4702e6 9.6515e5 4.3877e5 -8.143e6 -4.554e5
Validation Mean Moc Dispersion Measure Number of Sum of Fre- LogLikelin Number of BIC AICc Generalized <b>Paramet</b> <b>Term</b> Intercept KSC2 KSC4 KSC5 KSC6 KSC5 KSC6 KSC7 KSC8 KSC7 KSC8 KSC10 KSC112 KSC112 KSC112 KSC113 KSC12 KSC13 KSC13 KSC13 KSC13 KSC13 KSC13 KSC13 KSC13 KSC14 KSC13 KSC14 KSC13 KSC14 KSC13 KSC14 KSC17 KSC18 KSC17 KSC18 KSC18 KSC18	Method lel Link Model Link rows quencies nood Parameters d RSquare ter Estimate 5.0832834 -7.87-65 -3.484-65 -1.053-55 3.4175-66 -1.053-55 3.4175-66 -3.3475-67 -3.3572-65 -3.3572-65 -3.3513-66 -2.922-57 -7.6666-5 3.5113-66	Log Identity 89728 37103 22375033 32375053 4478428 44756713 0.0126544 <b>tes for Orig</b> <b>Std Error</b> 0.0064682 8.1207-6 0.0000122 0.0000112 1.7672e5 1.7951e5 1.2925e5 1.2925e5 1.2925e5 1.3212e5 1.3417e5 1.3925e5 1.3772e5 0.0000136 1.3772e5 0.0000141 1.3772e5 1.598e5 1.1863e5	Wald ChiSquare 617,629,06 0,9392586 0,0414201 0,0833950 9,016715 0,0362454 17,322295 52,354942 6,354942 0,2313465 3,1519487 0,1201264 1,4922314 1,4922314 1,4922314 1,4922314 1,4922314 1,4922314 1,4922314 1,4922314 1,292314 1,3922314 1,3922314 1,3922314 1,3922314 1,3922314 1,3922314 1,3922314 1,3922314 1,3922314 1,3922314 1,392314 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,39225 1,392555 1,392555 1,392555 1,392555 1,392555 1,392555 1,392	Prob > ChiSquare <0001* 0.3325 0.8387 0.03471 0.0027* 0.8490 <.0001* <.0001* 0.6305 0.758 0.2219 0.2219 0.2219 0.2219 0.2219 0.006* <.0001* 0.8992 0.006*	5.070606 -2.379e5 -2.64e5 -3.247e5 -3.247e5 -3.177e5 -6.745e5 -3.177e5 -0.000157 -2.739e5 -2.477e6 -0.000022 -4.08e5 4.2528e5 -5.059e5 -5.031e5 -5.	5.0959607 8.0461e6 2.1435e5 1.1416e5 0.000087 -2.426e5 0.00018 -2.426e5 0.00018 -2.426e5 0.00018 5.0117e5 3.1362e5 9.4702e6 9.6515e5 4.3877e5 -8.1438c6 -4.554e5 2.6762e5
Validation Mean Mod Dispersion Measure Number of Sum of Fre- LogLikelin Number of BIC AICc Generalizer Paramer Paramer Nacc KSC2 KSC4 KSC5 KSC6 KSC6 KSC6 KSC6 KSC6 KSC6 KSC6 KSC6	Method lel Link Model Link rows quencies nood Parameters d RSquare <b>ter Estimate</b> 5.0832824 7.8766 -1.033e5 5.3064e <sup>-</sup> 2.484e6 -1.033e5 3.4175e6 -2.484e6 -1.033e5 3.4175e6 -3.3546e5 0.000106 -5.397e6 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.356e5 -3.35113e6	Log Identity 89728 37103 22375053 32375053 44784428 44756713 0.0126544 <b>tet for Orig</b> <b>5td Error</b> 0.0066482 8.1207e6 0.0000122 0.0000122 0.0000122 1.7672e5 1.1221e5 1.3222e5 1.3222e5 1.3772e5 1.3772e5 1.598e5 1.598e5 1.598e5 1.598e5 1.598e5 1.598e5	Wald ChiSquare 61762906 0.9392586 0.0414201 0.883996 9.016715 0.082454 17.322295 52.354942 66.08979 0.2313465 3.151445 0.0362454 0.0323442 0.0323442 0.1201264 0.12012	Prob > ChiSquare <0001* 0.3325 0.8370 0.3471 0.002* 0.8490 <0001* <0001* 0.6305 0.0758 0.7289 0.2219 0.006* <0001* 0.8992 0.006* <0001* 0.8992 0.006* <0001* 0.7672 0.2248	5.070606 -2.379e5 -2.64e5 -3.247e5 -3.247e5 -3.177e5 -6.745e5 -3.000157 -2.739e5 -2.477e6 -0.00002 -2.477e6 -0.00002 -4.08e5 -4.0528e5 -5.031e5 -5.031e5 -0.000108 -1.974e5 -1.084e5	5.0959607 8.0461e6 2.1435e5 1.1416e5 0.0000877 0.000087 0.000087 -2.426e5 0.000128 -9.576e5 0.000128 -9.576e5 0.000128 -9.576e5 9.6515e5 4.3877e5 -8.143e6 -4.554e5 2.6762e5 4.613e5
Validation Wean Mod Wean Mod Dispersion Wean Mod Wean Mod Dispersion Jum of Frez Logikkelih Number of Logikkelih Reserved Logikkeli	Method lel Link Model Link rows quencies ood Parameters d RSquare ter Estimate 5.0832834 -7.87e6 -2.484e6 -1.053e5 5.3064e5 3.4175e6 -3.3475e6 -3.3475e6 -3.357e6 2.397e7 2.397e6 2.397e7 2.397e7 2.397e6 2.397e7 2.39	Log Identity 89728 37103 22375053 32375053 4478428 44756713 0.0126544 <b>tes for Orig</b> <b>Std Error</b> 0.0064682 8.1207-6 0.0000122 0.000012 1.7672-5 1.2925-5 1.2925-5 1.2925-5 1.32121-5 1.3417-5 1.3221-5 1.3417-5 1.3221-5 1.3417-5 1.3417-5 1.3417-5 1.3425-5 1.3417-5 1.3434-5 1.18632-5	Wald           ChiSquare           61762306           0.3932586           0.0414201           0.8339596           9.016715           0.0362434           23.35492           23.35492           0.0362434           23.35492           0.0362434           0.0362434           1.31519487           0.213465           0.213465           0.213465           0.213465           0.213465           0.2134545           0.2134545           0.2134545           0.2134545           0.2134545           0.2134545           0.2134545           0.2134545           0.2134545           0.2134545           0.2134545           0.2134545           0.2134545           0.213452           0.1492961           0.0876079           1.4733035           2.3.422389           2.3.4223954	Prob > ChiSquare <0001* 0.3325 0.8387 0.03471 0.0027* 0.8490 <.0001* <.0001* 0.6305 0.758 0.2219 0.2219 0.2219 0.2219 0.2219 0.006* <.0001* 0.8992 0.006*	5.070606 -2.379e5 -2.64e5 -3.247e5 -3.177e5 -3.177e5 -3.177e5 -3.177e5 -3.177e5 -3.177e5 -3.177e5 -3.177e5 -3.177e5 -3.177e5 -3.000102 -0.000022 -4.08e5 -5.059e5 -5.059e5 -0.000112 -1.084e5 -0.000112	5.0959607 8.0461e6 2.1435e5 1.1416e5 9.000038 -2.426e5 0.000128 -9.576e5 0.000128 -9.576e5 0.000128 -9.576e5 0.000128 -9.576e5 3.1362e5 9.4702e6 9.6515e5 4.3877e5 -8.143e6 -4.554e5 2.6762e5 4.613e5 -4.73e5
Validation Mean Moc Mean Moc Mean Moc Mean Moc Moc Dispersion Measure - Logikielih Number of Sum of Frez - Logikielih Number of Bit O - Angle	Method lel Link Model Link rows quencies nood Parameters ter Estimate 5.003284 -7.87e6 -2.484e6 -1.053e5 5.3064e5 3.4175e6 -3.356e5 0.000102 -3.387e6 -2.382e5 4.7126e6 -1.567e5 3.3516e6 -2.382e5 3.5113e6 1.7684e5 3.5513e6 -3.3556 0.0000342 0.000042 0.000042 0.000042 0.000042 0.000042	Log Identity 89728 37103 22375053 32337053 4478428 44756713 0.0126544 <b>tes for Orig</b> <b>std Error</b> 0.0064682 <b>s</b> .1207-6 0.000012 0.000012 1.7672-5 1.3925-5 1.	Wald ChiSquare 61762906 0.9392586 0.0414201 0.883996 9.016715 0.082454 17.322295 52.354942 66.08979 0.2313465 3.151445 0.0362454 0.0323442 0.0323442 0.1201264 0.12012	Prob > Chi5quare <.0001* 0.3325 0.8387 0.3471 0.027* 0.8490 <.0001* <.0001* <.0001* <.0001* <.0001* 0.6305 0.0758 0.7289 0.0005* <.0001* 0.8392 0.0065* <.0001* 0.8490 0.2219 <.0001* 0.8490 0.2219 <.0001* 0.8490 0.2219 <.0001* 0.8490 0.2219 <.0001* 0.8490 0.2219 0.0065* 0.2219 0.0065* 0.2219 0.0065* 0.2219 0.0065* 0.2219 0.0005* 0.2219 0.0001* 0.000* 0.000*	5.070606 -2.379e5 -2.64e5 -3.247e5 -3.247e5 -3.177e5 -6.745e5 -3.000157 -2.739e5 -2.477e6 -0.00002 -2.477e6 -0.00002 -4.08e5 -4.0528e5 -5.031e5 -5.031e5 -0.000108 -1.974e5 -1.084e5	5.0999607 8.0461e6 2.1435e5 1.1416e5 0.000038 -2.426e5 0.000038 -2.426e5 0.000038 -0.0000128 -9.576e5 0.0000128 0.0000128 9.4702e6 9.4702e6 9.43177e5 4.83877e5 -8.143e6 -4.554e5 2.6762e5 2.6762e5 5.9965e5 5.9965e5 0.000078
Validation Measure Mode Measure Jumoff Fragment Number of Sum of Fragment Sum of Fragment Sum of Fragment Sum of Fragment Sum of Sum	Method lel Link Model Link rows quencies rood Parameters d RSquare <b>ter Estimate</b> 5.0832834 -7.87e6 -1.053e5 5.307645 -3.484e6 -1.053e5 5.307645 -3.484e6 -1.053e5 3.4175e6 -3.3376e -3.3376e5 -3.3576e5 -3.51356 -3.51356 -3.5136 -7.75495 -7.7686e5 3.5113e -1.7645e5 -7.7849e5 0.000004 -2.284e5	Log Identity 89728 37103 22375053 32375053 324784428 44756713 0.0126544 tes for Orig Std Error 0.0064682 8.1207-6 0.0000122 0.000012 1.7672e5 1.2951e5 1.2951e5 1.2951e5 1.2925e5 1.2421e5 1.3472e5 1.5522e5 1.592e5 1.3472e5 1.6425e5 1.3445e5 1.3445e5 1.3445e5 1.3445e5 1.3445e5 1.3445e5	Wald ChiSquare 61762906 0.9392386 0.0414201 9.016715 0.0362454 17.322295 2.354942 66.08979 0.2313465 0.2313465 0.2313467 0.231346 0.2313462 0.231345 0.231455 0.231455 0.2314550	Prob > ChiSquare 0.325 0.837 0.3471 0.0027 0.8490 0.0001* 0.6005 0.0758 0.7289 0.2219 0.0005* 0.0758 0.7289 0.2219 0.0005* 0.0001* 0.0001* 0.0003*	5.07006 -2.37955 -2.64e5 -3.247e5 1.84285 -3.177e5 -3.177e5 -3.177e5 -3.474e5 -2.477e6 -0.000127 -4.08e5 -4.25285 -5.031e5 -3.000108 -1.974e5 -1.084e5 -0.000108 -1.974e5 -1.084e5 -0.000108 -1.974e5 -1.084e5 -0.000108 -1.974e5 -1.084e5 -0.000108 -1.974e5 -1.084e5 -0.000108 -1.974e5 -1.084e5 -0.000108 -1.974e5 -1.084e5 -0.000108 -1.974e5 -1.084e5 -0.000108 -1.974e5 -1.084	5.0999607 8.0461ec 2.1435e5 1.1416e5 0.000037 0.000038 0.000128 0.0000128 0.0000128 0.0000128 0.0000128 0.000010000000000000000000000000000000
Validation Mean Mod Dispersion Measure Number of Sum of Fre- LogLikelik Number of BIC AICC Generalize Paramet KSC1 KSC2 KSC4 KSC4 KSC4 KSC4 KSC4 KSC4 KSC4 KSC4	Method lel Link Model Link rows quencies nood Parameters d RSquare <b>ter Estimate</b> 5.0832824 -7.87e6 -2.484e6 -1.053e5 5.3064e5 3.4175e6 -3.832e5 4.7126e6 -3.397e6 -3.392e5 -3.367e5 -3.3567e5 -3.3567e5 -3.3567e5 -3.3567e5 -3.3567e5 -3.35766 -3.35766 -3.35766 -3.35766 -3.357	Log Identity 89728 37103 22375053 32375053 34478428 44756713 0.0126544 <b>tes for Orig</b> <b>Std Error</b> 0.0064682 8.1207-6 0.000012 1.7672-5 1.000012 1.7672-5 1.15222-5 1.15222-5 1.15222-5 1.15222-5 1.34172-5 1.34172-5 1.34172-5 1.34172-5 1.34172-5 1.341245-5 1.45245-5 1.45245-5 1.45245-5 1.45245-5 1.3425-5 1.45245-5 1.4525-5 1.3435-6 1.4525-5 1.3435-5 1.4525-5 1.3435-5 1.4525-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.3435-5 1.345	Wald Chi5quare 61762306 0.0392586 0.0414201 0.839596 9.016715 23.354942 66.08979 0.0362454 17.322295 23.35492 66.08979 0.2313465 23.35492 1.201264 1.4922314 1.4922314 1.4922314 2.3.480968 0.0139361 1.4922314 2.3.480968 0.0139361 1.492625 2.3.422389 6.768251 1.473505 2.3.422389 6.768251 1.473505 2.3.422389 6.768251 1.473505 2.3.422389 6.768251 1.473505 2.3.422389 6.768251 1.475505 2.3.422389 6.768251 1.475505 2.3.422389 6.768251 1.475505 2.3.422389 6.768251 1.475505 2.3.422389 6.768251 1.475505 2.3.422389 6.768251 1.475505 2.3.422389 6.768251 2.3.422389 6.768251 2.3.422389 6.768251 2.3.422389 6.768251 2.3.422389 6.768251 2.3.422389 6.768251 2.3.422389 6.768251 2.3.42238 2.4.42388 2.4.4238	Prob > ChiSquare <.0001* 0.325 0.3325 0.3471 0.002* 0.8490 <.0001* <.0001* <.0001* <.0001* <.0001* 0.6305 0.0758 0.0758 0.0219 0.0066* 0.0219 0.0066* 0.0219 0.0066* 0.001* 0.8892 0.0066* 0.001* 0.8892 0.0066* 0.001* 0.8892 0.0066* 0.001* 0.8892 0.001* 0.8892 0.001* 0.8892 0.001* 0.8892 0.001* 0.8892 0.001* 0.8892 0.001* 0.8892 0.001* 0.8892 0.001* 0.8892 0.001* 0.8892 0.001* 0.8892 0.001* 0.8892 0.001* 0.8992 0.001* 0.001* 0.8992 0.001* 0.	5.070606 -2.379e5 -2.64e5 -3.247e5 -3.247e5 -3.477e5 -3.477e5 -3.477e5 -7.3464e5 -7.3464e5 -2.477e6 -0.000022 -4.08e5 -3.031e5 -0.000112 -0.000112 -0.000012 -1.84458- -0.000112 -0.000012 -1.84458- -0.000112 -1.84458- -0.000012 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.00002 -1.84458- -0.00002 -1.84458- -0.00002 -1.84458- -0.00002 -1.84458- -0.00002 -1.84458- -0.00002 -1.84458- -0.00002 -1.84458- -0.000002 -1.84458- -0.0000000000000000000000000000000000	5.0959607 8.0461ec 2.1435e5 1.1416e5 0.000038 -2.426e5 0.000128 -0.5762e5 0.00017e5 0.00017e5 0.000016 0.000016 0.0117e5 0.000016 0.000016 0.51515 0.4772e6 0.4534e5 -4.554e5 -4.554e5 -4.554e5 -4.554e5 -0.0000705 0.0000705 -2.55e6 0.0000705
Validation Mean Modo Dispersion Measure Logikkelih Number of Sum of Frazila Sum of Frazila Number of Robert	Method lel Link Model Link rows quencies nood Parameters d RSquare <b>ter Estimate</b> 5.0832834 -7.87e6 -1.053e5 5.3064e5 3.4175e6 -1.053e5 5.307e6 2.382e5 4.7126e6 -1.567e5 6.9521e5 -3.357e5 -3.357e5 -3.357e5 -3.357e5 -3.277e5 -3.2	Log Identity 89728 37103 22375053 32375053 324764828 44756713 0.0126544 tes for Orig Std Error 0.0064682 8.1207-6 0.000012 0.000012 0.000012 0.000012 0.000012 1.7672e5 1.3925e5 1.2925e5 1.2925e5 1.2925e5 1.2925e5 1.2925e5 1.2925e5 1.2925e5 1.2925e5 1.2772e5 0.0000124 1.2825e5 1.2772e5 0.0000124 1.2825e5 1.2772e5 0.0000124 1.3772e5 0.13772e5 1.598e5 1.1475e5 1.34145e5 1.34145e5 1.34145e5	Wald           ChiSquare           61762306           0.9392366           0.0414201           0.041201           0.833956           9.016715           52.354442           66.0979           0.2313465           0.1201264           0.1201264           0.1201264           0.1201264           0.1333525           0.087097           1.332225           0.0876072           2.342389           6.7688251           1.4.8678206           2.8.68269           0.738218	Prob > ChiSquare 0.3325 0.8387 0.3471 0.0027 0.8490 0.0001* 0.6305 0.0758 0.758 0.758 0.2219 0.2001* 0.8892 0.0005* 0.0001* 0.0003* 0.0003* 0.0003* 0.0003*	5.07006 -2.379e5 -2.64e5 -3.247e5 -3.427e5 -3.177e5 -6.745e5 -2.477e6 -0.00012 -2.479e6 -0.00012 -4.0062 -2.477e6 -0.000108 -1.974e5 -5.031e5 -0.000108 -1.974e5 -2.081e5 -0.000108 -1.974e5 -2.08285 -2.8328e5 -2.8328e5 -2.8328e5 -2.8328e5 -2.8228e5 -2.8228e5 -2.8228e5 -2.8228e5 -2.8228e5 -2.8228e5 -2.8228e5 -2.8288e5 -2.8288e5 -2.8288e5 -2.8288e5 -2.8288e5 -2.8288e5 -2.8288e5 -2.8288e5 -2.8288e5 -2.8288e5 -2.8288e5 -2.8288e5 -2.88888e5 -2.88888e5 -2.88888e5 -2.88888e5 -2.88888e5 -2.88888e5 -2.88888e5 -2.88888e5 -2.88888e5 -2.88888e5 -2.88888e5 -2.88888e5 -2.88888e5 -2.88888 -2.888886 -2.88886 -2.89886 -2.89886 -2.89886 -2.89886 -2.89886 -2.89886 -2.89886 -2.89886 -2.898866 -2.89886 -2.89886 -2.89886 -2.89886 -2.89886	5.059507 8.0461-0 2.1435e5 1.1416e5 0.000087 0.000038 0.2426e5 0.00012 0.00008 0.00012 0.00012 0.00012 0.00012 0.00012 0.00012 0.00012 0.00012 0.00012 0.0012 0.0012 0.0012 0.0012 0.00012 0.00120000000000
Validation Mean Mod Dispersion Measure Number of Sum of Fre- LogLikelin Number of BIC AICc Generalized <b>Paramet</b> <b>Term</b> Intercept KSC1 KSC2 KSC4 KSC5 KSC6 KSC6 KSC7 KSC8 KSC7 KSC8 KSC10 KSC11 KSC12 KSC13 KSC13 KSC13 KSC14 KSC15 KSC14 KSC15 KSC14 KSC15 KSC14 KSC15 KSC18 KSC16 KSC17 KSC18 KSC18 KSC18 KSC18 KSC18 KSC19 KSC21 KSC21 KSC22 KSC24 KSC34 KSC36 KSC36 KSC36 KSC36 KSC37 KSC36 KSC37 KSC4 KSC4 KSC4 KSC4 KSC4 KSC4 KSC4 KSC4	Method lel Link Model Link rows quencies nood Parameters d RSquare <b>ter Estimate</b> 5.083283 7.8764 7.8766 - 1.053e5 5.3064e5 3.34175e6 - 4.386e5 0.000108 - 0.000126 - 3.397e6 - 1.557e5 6.3322e5 - 3.5113e6 1.567e5 - 3.5113e6 1.567e5 - 3.5113e6 1.567e5 - 3.5113e6 - 1.567e5 - 3.5113e6 - 1.567e5 - 3.5113e6 - 1.567e5 - 3.5113e6 - 2.822e5 - 7.686e5 - 2.922e5 - 7.686e5 - 2.924e5 - 2.924e5 - 2.924e5 - 2.145e6 - 2.924e5 - 2.145e6 - 2.924e5 - 2.145e6 - 2.924e5 - 2.944e5 -	Log Identity 89728 37103 22375053 32375053 324764828 44756713 0.0126544 tes for Orig Std Error 0.0064682 8.1207-6 0.000012 0.000012 0.000012 0.000012 0.000012 1.7672e5 1.3925e5 1.2925e5 1.2925e5 1.2925e5 1.2925e5 1.2925e5 1.2925e5 1.2925e5 1.2925e5 1.2772e5 0.0000124 1.2825e5 1.2772e5 0.0000124 1.2825e5 1.2772e5 0.0000124 1.3772e5 0.13772e5 1.598e5 1.1475e5 1.34145e5 1.34145e5 1.34145e5	Wald Chi5quare 61762306 0.0392586 0.0414201 0.839596 9.016715 23.354942 66.08979 0.0362454 17.322295 23.35492 66.08979 0.2313465 23.35492 1.201264 1.4922314 1.4922314 1.4922314 2.3.480968 0.0139361 1.4922314 2.3.480968 0.0139361 1.492625 2.3.422389 6.768251 1.473505 2.3.422389 6.768251 1.473505 2.3.422389 6.768251 1.473505 2.3.422389 6.768251 1.473505 2.3.422389 6.768251 1.475505 2.3.422389 6.768251 1.475505 2.3.422389 6.768251 1.475505 2.3.422389 6.768251 1.475505 2.3.422389 6.768251 1.475505 2.3.422389 6.768251 1.475505 2.3.422389 6.768251 2.3.422389 6.768251 2.3.422389 6.768251 2.3.422389 6.768251 2.3.422389 6.768251 2.3.422389 6.768251 2.3.422389 6.768251 2.3.42238 2.4.42388 2.4.4238	Prob > ChiSquare 0.3325 0.8387 0.3471 0.8490 0.0001* 0.6305 0.0758 0.2219 0.2001* 0.8892 0.2219 0.0001* 0.8892 0.2248 0.0001* 0.0003*	5.070606 -2.379e5 -2.64e5 -3.247e5 -3.247e5 -3.477e5 -3.477e5 -3.477e5 -7.3464e5 -7.3464e5 -2.477e6 -0.000022 -4.08e5 -3.031e5 -0.000112 -0.000112 -0.000012 -1.84458- -0.000112 -0.000012 -1.84458- -0.000112 -1.84458- -0.000012 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.000112 -1.84458- -0.00002 -1.84458- -0.00002 -1.84458- -0.00002 -1.84458- -0.00002 -1.84458- -0.00002 -1.84458- -0.00002 -1.84458- -0.00002 -1.84458- -0.000002 -1.84458- -0.0000000000000000000000000000000000	5.0959607 8.0461e6 2.1435e5 1.1416e5 0.000087 0.000038 0.000128 0.000128 0.000128 0.000128 0.000128 0.000128 0.000128 0.000128 0.000128 0.0000128 0.6515e5 0.0000705 0.255e6 0.0000076 0.255e6 0.0000076
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falidation           falidation           Mean Mode           Mean Mode           Mean Mode           Mean Mode           Jispersion           Mean Mode           Jumber of Jumber of Jumber of Julia           Jumber of Jaramet           Paramet           Rescue           SG1           SG12           SG13           SG14           SG15           SG12           SG13           SG14           SG15           SG15           SG14           SG25           SG26           SG21           SG13           SG14           SG215           SG22           SG24           SG25           SG26           SG27	Method lel Link Model Link rows quencies nood Parameters d RSquare <b>ter Estimate</b> 5.0832834 -7.87e6 -1.053e5 5.3064e5 3.4175e6 -1.053e5 5.307e6 2.382e5 4.7126e6 -1.567e5 6.9521e5 -3.5113e6 1.767e5 6.9521e5 0.0000342 0.000342 0.000342 0.000342 0.000342 0.28465 2.24546 1.2516e5 7.9569e5	Log Identity 89728 37103 22375053 32373053 4478428 44756713 0.0126544 <b>tes for Orig</b> <b>Std Error</b> 0.0064682 8.1207-6 0.0000122 0.000012 1.7672-5 1.2951-5 1.2925-5 1.2925-5 1.3925-5 1.3925-5 1.3925-5 1.3726-5 0.000036 1.2825-5 1.3726-5 1.3925-5 1.3417-5 1.3823-5 1.38345-5 1.48345-5 1.48345-5 1.443945-5 1.34351-5 8.43746-6 9.5193-6 9.5193-6 1.1429-5 1.000011 1.2426-5	Wald           ChiSquare           61762:90           61762:90           0.03932:96           0.0414:201           0.833956           9.016715           0.366454           17.322:95           23.3534492           66.0979           0.2313465           0.1201264           1.422:314           2.42399           0.089991           1.332215           0.00760991           2.3135225           0.0076092           2.422399           6.7688251           17.481061           2.8,480966           2.8,480966           0.0507657           1.200240           0.0507657           1.200240           0.501657           1.39213	Prob > ChiSquare 0.3325 0.8387 0.3471 0.0471 0.6305 0.0758 0.2219 0.0001* 0.6305 0.758 0.2219 0.2219 0.0001* 0.8892 0.0001* 0.0001* 0.0003* 0.0001* 0.0003* 00	5.07006 -2.379e5 -2.64e5 -3.247e5 -3.177e5 -3.177e5 -3.177e5 -3.177e5 -3.177e5 -3.1464e5 -0.00017 -2.739e4 -2.477e6 -0.000108 -1.974e5 -5.031e5 -0.000108 -1.974e5 -0.00108 -1.974e5 -0.00108	5.0959607 8.0461e6 2.1433e5 1.1416e5 0.0000877 0.0000386 -2.426e5 0.0000386 -2.426e5 0.000186 9.5776e5 0.000186 5.0117e5 3.1362e5 9.6513e5 4.13362e5 9.6513e5 4.13362e5 4.613e5 4.613e5 4.613e5 4.613e5 4.613e5

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Model Su	ummary	P. 14. 7					
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Estimation		Maximum Lik					
Validation I Mean Mode		None Log					
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-LogLikelih	ood	235454.33					
Number of BIC	Parameters	33 471257.66					
AICc		470974.71					
Generalized	RSquare	0.0084749					
Paramet	er Estima	ates for Ori	ginal Predic	tors			
Tarm	Estimate	Carl France	Wald	Prob >	Laura 05%	Unnas 05%	
Term Intercept	Estimate 5.0433569	Std Error 0.0061145	ChiSquare 680326.29	ChiSquare <.0001*	Lower 95% 5.0313727	Upper 95% 5.0553411	^
KSC1	1.2665e-5		2.6421861	0.1041	-2.606e-6	2.7936e-5	
KSC2	-5.046e-5	1.1816e-5	18.23765	<.0001*	-7.362e-5	-2.73e-5	
KSC4 KSC5	-0.000053 -1.449e-5		20.536507 0.7508156	<.0001* 0.3862	-7.584e-5 -4.726e-5	-0.00003 1.8284e-5	
KSC6	9.1229e-5		27.605935	<.0001*	0.0000572	0.0001253	
KSC7	-2.48e-5	1.0357e-5	5.7310341	0.0167*	-0.000045	-4.495e-6	
KSC8	5.6731e-5		15.989298	<.0001*	2.8924e-5	8.4539e-5	
KSC9 KSC10	-9.784e-5 3.0825e-5		41.07525 8.5789159	<.0001* 0.0034*	-0.000128 0.0000102	-0.000068 5.1452e-5	
KSC11	-2.688e-5		4.4712519	0.0345*	-5.179e-5	-1.965e-6	
KSC12	3.1523e-5	0.0000135	5.4538306	0.0195*	5.0669e-6	5.7979e-5	
KSC13 KSC14	-0.000021 9.0125e-5		2.8753609 44.316827	0.0899 <.0001*	-4.547e-5 0.0000636	3.2874e-6 0.0001167	
KSC14 KSC15	-3.632e-5		2.4714438	0.1159	-8.161e-5	8.9625e-6	
KSC16	-1.677e-5	1.0745e-5	2.4348577	0.1187	-3.783e-5	4.2934e-6	
KSC17	-7.078e-5		20.927058	<.0001*	-0.000101	-4.045e-5	
KSC18 KSC19	-1.94e-6 0.0000209		0.0295003 1.953808	0.8636	-0.000024 -8.403e-6	0.0000202 5.0186e-5	
KSC20	-1.161e-5	1.6858e-5	0.4739939	0.4912	-6.405e-0	2.1435e-5	
KSC21	3.8355e-6		0.0852151	0.7704	-0.000022	2.9588e-5	
KSC22 KSC24	2.9546e-5 -0.000001		6.8077269 0.0095304	0.0091*	7.3515e-6 -2.089e-5	5.1741e-5 1.891e-5	
KSC24 KSC25	1.0885e-5		1.667976	0.9222	-2.089e-5	0.0000274	
KSC26	4.7828e-6	9.7051e-6	0.2428711	0.6221	-1.424e-5	0.0000238	
KSC27	-0.000024		4.1830889	0.0408*	-0.000047	-0.000001	
KSC28 KSC29	7.9837e-5 -0.000032		49.315227 6.2361877	<.0001* 0.0125*	5.7555e-5 -0.000057	0.0001021 -6.881e-6	
KSC30	-1.721e-5	1.3245e-5	1.6886451	0.1938	-4.317e-5	8.7483e-6	
KSC31	1.6016e-5	8.5753e-6	3.4880982	0.0618	-7.917e-7	3.2823e-5	
KSC32	2.3716e-5		1.7845455	0.1816	-0.000011	5.8511e-5	$\sim$
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	um Likelił	nood				
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Response		lightning.end				
Distributio Estimation		Negative Bind Maximum Lik				
Validation		None	einoou			
Mean Moo		Log				
Dispersion Measure	Model Link	Identity				
Number of	f rows	93380				
Sum of Fre	equencies	39193				
-LogLikelil Number o	hood f Parameters	235301.99 33				
BIC		470952.99				
AICc		470670.03 0.0086079				
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Term	Estimate	Std Error	ChiSquare	ChiSquare	Lower 95%	Upper 95%
KSC1	2.3779e-5 -0.000071		9.5332597	0.0020*	8.6844e-6	3.8873e-5
KSC2 KSC4	-0.0000/1 -5.386e-5		35.620841 22.202364	<.0001*	-9.429e-5 -7.626e-5	-4.767e-5 -3.145e-5
KSC5	2.9244e-5	1.6973e-5	2.9684194	0.0849	-4.024e-6	6.2511e-5
KSC6	7.8339e-5		19.4479	<.0001*	4.3522e-5	0.0001132
KSC7 KSC8	-0.000041 5.8468e-5	1.038e-5 0.000014	15.645277 17.444028	<.0001* <.0001*	-6.14e-5 3.1031e-5	-2.071e-5 0.0000859
KSC9	-0.000095	1.5059e-5	39.726026	<.0001*	-0.000124	-6.54e-5
KSC10	2.1344e-5	1.0666e-5	4.0048157	0.0454*	4.3985e-7	4.2249e-5
KSC11 KSC12	-2.767e-6 0.00001		0.0468928 0.5633582	0.8286	-2.781e-5 -1.612e-5	2.2278e-5 3.6124e-5
KSC13	-9.575e-6	1.2325e-5	0.603563	0.4372	-3.373e-5	1.4581e-5
KSC14	6.2415e-5	1.3435e-5	21.582115	<.0001*	3.6082e-5	8.8747e-5
KSC15 KSC16	-2.149e-6 -4.322e-6		0.0086797 0.1664868	0.9258 0.6833	-4.736e-5 -0.000025	4.3062e-5 1.644e-5
KSC17	-4.819e-5	1.5554e-5	9.5973383	0.0019*	-7.867e-5	-1.77e-5
KSC18	-2.94e-5 1.6555e-5		6.9107486 1.2617421	0.0086*	-5.131e-5 -1.233e-5	-7.479e-6 4.5443e-5
KSC19 KSC20	1.6555e-5 -0.000024		2.1271877	0.2613 0.1447	-1.233e-5 -5.648e-5	4.5443e-5 8.2848e-6
KSC21	0.0000066	1.2928e-5	0.2606356	0.6097	-1.874e-5	3.1939e-5
KSC22 KSC24	2.825e-5 -1.316e-6		6.4553479 0.0173125	0.0111* 0.8953	6.4575e-6 -0.000021	5.0042e-5 1.8283e-5
KSC24	8.1238e-6		0.9871637	0.3204	-7.902e-6	2.4149e-5
KSC26	4.8324e-6		0.2506599	0.6166	-0.000014	2.375e-5
KSC27 KSC28	-0.00003 8.8978e-5		6.6962388 64.48955	0.0097* <.0001*	-5.276e-5 6.7262e-5	-7.283e-6 0.0001107
KSC29	-1.888e-5	1.2447e-5	2.3000081	0.1294	-4.327e-5	5.5187e-6
KSC30 KSC31	-1.65e-5		1.6097662 5.3898432	0.2045 0.0203*	-0.000042 0.000003	8.9864e-6 3.5528e-5
KSC32	1.9264e-5 6.4011e-6		0.1368615	0.7114		
KSC32 KSC34 Generali Iodel La	6.4011e-6 -2.764e-5 1 2504544 zed Regre	0.0000173 1.3986e-5 0.0091017 ssion for li		0.7114 0.0481*	-2.751e-5 -0.000055 1.2422000	4.0314e5 -2.261e7 1.2755000
(SC32 (SC34 Generali Iodel La Maxim Model S Response	6.4011e-6 -2.764e-5 12504544 zed Regre unch um Likelil Summary	0.0000173 1.3986e5 0.0021017 ssion for li hood	0.1368615 3.9050854 2754107 ghtning.en	0.7114 0.0481*	-2.751e-5 -0.000055	4.0314 <del>e</del> -5 -2.261e-7
KSC32 KSC34 Codel La Maxim Model S Response Distributic Estimation Validation Mean Mod	6.4011e6 -2.764e5 -1.250454 zed Regre unch um Likelil Summary on Method Method del Link	0.0000173 1.3986e5 0.0021017 ssion for li hood lightning.enc Negative Bin Maximum Lik None Log	0.1368615 3.9050854 9754107 ghtning.en	0.7114 0.0481*	-2.751e-5 -0.000055	4.0314 <del>e</del> -5 -2.261e-7
KSC32 KSC34 Discontinue Contention Contention Maxim Model S Response Distributic Estimation Validation Validation Dispersion Mean Moo Dispersion Measure	6.4011e6 -2.764e5 12504544 zed Regre unch um Likelil Summary on Method del Link Model Link	0.000173 1.3986e5 0.0021017 ssion for li nood lightning.end Negative Bin Maximum Lik None Log Identity	0.1368615 3.9050854 9754107 ghtning.en	0.7114 0.0481*	-2.751e-5 -0.000055	4.0314 <del>e</del> -5 -2.261e-7
KSC32 KSC34 Denerali Jodel La Maxim Model S Response Distributic Estimatior Validation Mean Mod Dispersion Measure Number o	6.4011e6 -2.764e5 zed Regre unch um Likelil Summary on Method del Link Model Link f rows	0.000173 1.3986e5 0.0021017 ssion for li hood lightning.end Negative Bin Maximum Lik None Log Identity 2075913	0.1368615 3.9050854 9754107 ghtning.en	0.7114 0.0481*	-2.751e-5 -0.000055	4.0314 <del>e</del> -5 -2.261e-7
KSC32 KSC34 Denerali Jodel La Maxim Model S Response Distributic Estimatior Validation Mean Mod Dispersion Measure Number o	6.4011e6 -2.764e5 1.2504544 zed Regre unch um Likelil Summary on Method del Link Model Link f rows equencies	0.000173 1.3986e5 0.0021017 ssion for li nood lightning.end Negative Bin Maximum Lik None Log Identity	0.1368615 3.9050854 9754107 ghtning.en	0.7114 0.0481*	-2.751e-5 -0.000055	4.0314 <del>e</del> -5 -2.261e-7
KSC32 KSC34 Conservation Conser	6.4011e6 -2.764e5 1.2504544 zed Regre unch um Likelil Summary on Method del Link Model Link f rows equencies	0.0000173 1.3986e5 0.000107 ssion for li hood lightning.enc Negative Bin Maximum Lil None Log Identity 2075913 852760 50067465 33	0.1368615 3.9050854 9754107 ghtning.en	0.7114 0.0481*	-2.751e-5 -0.000055	4.0314 <del>e</del> -5 -2.261e-7
KSC32 KSC34 Senerali Codel La Maxim Model S Response Distributic Estimatior Validation Mean Mod Dispersion Measure Number o Sum of Fre -LogLikeli Number o BIC	6.4011e6 -2.764e5 1 32044 zed Regre unch um Likelil Summary Method Method del Link f rows equencies hood	0.0000173 1.3986-5 noncentr ssion for li hood lightning.enc Negative Bin Maximum Li None Log Identity 2075913 852760 50067465 33 10013944	0.1368615 3.9050854 9754107 ghtning.en	0.7114 0.0481*	-2.751e-5 -0.000055	4.0314 <del>e</del> -5 -2.261e-7
KSC32 (SC34) Control (SC34) Control (SC34) Control (SC34) Maxim Model S Response Distributic Estimation Validation Mean Mo Dispersion Measure Number o Sum of Fre- LogLikeli Number o BIC AICC Generalize Generalize	6.4011e6 -2.764e5 1.35604544 zed Regre unch um Likelil Summary on N Method Method del Link f rows equencies hood f Parameters kd RSquare	0.0000173 1.3986-5 0.002177 sssion for li hood lightning.end Negative Bin Maximum Lil None Log Identity 2075913 852760 5006746.5 33 10013599 0.0116081	0.1366615 3.9050854 775.4107 ghtning.en	0.7114 0.0481 0.0411	-2.751e-5 -0.000055	4.0314 <del>e</del> -5 -2.261e-7
KSC32 (SC34) Indel La Maxim Model Sa Response Distributic Estimation Validation Mean Moo Dispersion Mean Moo Dispersion Mean Moo Dispersion Mean Moo Dispersion Mean Moo Dispersion Mean Moo Bic AlCc Generalize Parame	6.4011e6 -2.764e5 1.26045AA zed Regre unch um Likelil Summary n Method del Link f rows equencies hood f Parameters ed RSquare ter Estimat	0.0000173 1.3986-5 0.000177 ssion for li hood lightning.enc Negative Bin Maximum Li None Log Identity 2075913 852760 5006763 31 0013599 0.0116081 ttes for Ori	0.1366615 3.9050634 375.4107 gjntning.en	0.7114 0.0431* d.1	-2.751e5 -0.000055 12.42000	4.0314e5 -2.261e7 -1.3755me
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SG32 SG34 Noncentralia Iodel La Maxim Model S Response Distribution Validation Validation Validation Mean Molo Dispersion Measure Number o Bic Alace eneralize Parame Term KSC1 KSC1 KSC3	6.4011e6 -2.764e5 1.2604544 zed Regre umch umch umch tit Method del Link n Method del Link n Method del Link n Method del Link n Method del Link n Method del Link n Method del Link s Method s	0.0000173 1.3986-5 0.000173 ssion for li hood lightning.enc None Log Identity 2075913 852760 50067465 33 1001359 0.0116081 ttes for Ori 1.49216 2.2612e-6 2.1508e-6 3.1706e-6	0.1366615 3.9050854 775.4107 gjhtning.en 4.1 omial eelihood 4.1 Wald ChiSquare 9.7.91665 285.20735 236.6685 0.8139222	0.7114 0.0431* 4.1 tors Prob > ChiSquare <.0001* <.0001*	Lower 95% 1 2423000 1 2423000 1 2423000	Upper 95% 1.7689e5 -2.387e5 9.0746e7 -2.887e5 9.0746e7
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SG32 SG34 SG34 Maxim Model S Response Distributic Estimation Dispersion Mean Mo Dispersion Mean Mo Dispersion Mean Mo Dispersion Meanue Number o Resensalize Bic Alco Generalize Bic Alco Seneralize SG2 SG3 SG3 SG5 SG5 SG5 SG5 SG5 SG5 SG5 SG5 SG5 SG5	6.4011e6 -2.764e5 1.3604544 zed Regre umch um Likelill Summary on N Method Method del Link Model Link f rows equencies hood df Parameters Estimate 1.4765e5 -3.819e5 -3.819e5 -2.833e5 -2.559465 -7.881e5 1.0614e5	0.0000173 1.3986-5 0.000173 ssion for li hood lightning.enc None Log ldentity 2075913 852760 50067465 33 10013594 10013559 2.2612-6 2.2612-6 3.1706-6 3.1706-6 3.1706-6 3.1707	0.1366615 3.9050854 775.4107 gitning.en i.1 i.1 i.1 celihood ginal Predii Wald ChiSquare 97.918663 285.2073 285	0.7114 0.0431* 4.1 20001* 4.1 20001* 20000* 20001* 20001* 20001* 20001* 20001* 20001* 20001* 20001* 20001* 20001* 20001* 20001* 20001* 20001* 20001* 20001* 2000* 200*	Lower 95% 1 2423000 1 242300 1 2423000 1 242300000000000000000000000000000000000	Upper 95% 1.7689-5 -2.618-7 -2.887-5 -2.887-5 -2.887-5 -2.4887-5 -2.436-5 6.1238-5 -7.7378-5 -7.7378-5 -7.7378-5
SG32 SG34 Seneralia Indef La Maxim Model 5 Response Distributic Estimation Mean Mo Dispersion Mean Mo Number o Sum of Frn Loglikeli Number o Sum of Frn Loglikeli Alca Generalize Parame Term SG3 SG3 SG3 SG3 SG3 SG3 SG3 SG3 SG3 SG3	6.4011e6 -2.764e5 1.2604544 zed Regre unch um Likelil Summary on N Method Method del Link N Method del Link N Model Link N Model Link N Model Link f rows requencies hood Parameters ad RSquare tet Estimate 1.4765e5 -3.819e5 -3.81	0.0000173 1.3986-5 0.000173 ssion for li hood lightning.enc Negative Bin Maximum Li None Log Identity 2075913 852760 5006745 33 10013599 0.0116081 std Error 5.14921-6 2.1508-6 3.3453-6 6 2.0235-6 3.3453-6 5 2.0235-6 5 0.000027 2.8752-6 2.0378-6	0.1366615 3.9050854 3.9050854 3.9050854 3.9050854 3.9050854 3.9050854 3.9050854 3.9050854 3.905085 0.8139252 0.81395	0.7114 0.0431* 2.0001* d.1 tors Prob > ChiSquare <.0001* 0.0001* <.0001* 0.0001* <.0001*	Lower 95% 1.184-5 3.731-5 3.731-5 3.731-5 3.731-5 5.0654-5 5.8844-5 5.541-6 5.541-6	Upper 95% 17699-5 37659-5 9.0745-6 9.0745-6 7.7086-5 -2.4365-5 1.4647-5 0.000003
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SG32 SG34 SG34 Normerali SG34 Model S Response Distributic Estimation Mean Mou Dispersion Mean Mou Dispersion Mean Mou Dispersion Mean Mou Sci Sister Sister Parame Parame SGC SG35 SG36 SG35 SG35 SG35 SG35 SG35 SG35 SG35 SG35	6.4011e6 -2.764e5 12604544 zed Regre uunch uum Likeliil Summary on Method del Link Method del Link Method Method del Link Method Sigue 2.804e Method Method Sigue 2.804e Method Method Method Method Method Sigue 2.804e Method	0.0000173 1.3986-5 0.000173 ssion for li hood lightning.enc None Log ldentity 2075913 852760 50067465 333 1001359 0.0116081 ster for Ori 1.49212e6 2.2612e6 3.1708-6 3.1708-6 3.1708-6 2.023526 2.000027 2.023526 2.025526 2.0255626 2.025566 2.025566 2.025566 2.025566 2.025566 2.025566 2.025566 2.025566 2.025566 2.025566 2.025566 2.025566 2.025566 2.025566 2.025566 2.025566 2.025666 2.0256666 2.02566666666666666666666666666666666666	0.1366615 3.9050824 375.4107 gintning.en 4.1 omial celihood 4.1 <b>Ginal Predii</b> Wald <b>ChiSquare</b> 97.91663 285.20735 236.6985 0.813925 285.20735 236.6985 0.813925 236.6985 0.813925 246.02277 0.0611691 109.25659 219.85276 244.32945	0.7114 0.0431* 4.1 ChiSquare <.0001* ChiSquare <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001*	Lower 95% 1 2423000 1 242300 1 2423000 1 242300 1 2423000 1 242300000000000000000000000000000000000	4.0314e5 -2.261e7 1.2755m0 1.2755m0 1.2755m0 1.2755m0 1.28755 -2.8755 -2.8755 -2.8755 -2.8755 -2.8755 -2.8755 -2.8755 -2.24365 -2.24365 -1.24875 -2.4365 -2.4365 -1.24875 -1.248575 -1.248575 -1.248575 -1.248575 -1.248575 -1.248575 -1.248575 -1.248575 -1.248575 -1.248575 -1.248575 -1.248575 -1.248575 -1.248575 -1.2495755 -1.2495755 -1.2495755 -1.249575555 -1.249575555 -1.2495755555555555555555555555555555555555
SG32 SG34 SG34 Model 1 Model 1 Response Distributic Estimation Measure Number o BilC Number o BilC Number o BilC Number o BilC Resensilize BilC Resensilize Resensilize SG35 SG35 SG35 SG35 SG35 SG35 SG35 SG35	6.4011e6 -2.764e5 1.26045M zed Regre umch um Likelil Summary on Method del Link Model Link Model Link Model Link Model Link Model Link Model Link Model Link Fows equencies hood f Parameters ter Estimate 1.4765.e5 -3.819e5 -0.00003 2.8604e6 7.0529e5 -2.833e5 -2.832e5 -2.833e5 -2.832e5 -2.832e5 -2.832e5 -2.832e5 -2.832e5 -2.832e5 -2.832e5 -2.832e5 -2.832e5 -2.832e5 -2.832e5 -2.832e5 -2.842 -2.942 -2.942 -2.842 -2.942	0.0000173 1.3986-5 0.000173 ssion for li hood lightning.enc None Log Identity 2075913 852700 50067465 310013944 10013944 10013944 10013359 0.0116081 std Error 5.26126-6 2.26126-6 2.21508-6 2.03786-6 2.03786-6 2.5782-6 2.57782-6 2.5782-6	0.1366615 3.9050840040043.905084 3.905084 3.905	0.7114 0.0431* 4.1 * * * * * * * * * * * * * * * * * * *	Lower 95% 1 2432000 1 243200 1 2432000 1 2432000 1 2432000 1 24320000 1 243200000000000000000000000000000000000	4.0314e5 -2.261e7 1.2755000 1.2755000 1.2755000 1.2755000 1.2755000 1.2755000 1.2755000 1.2755000 1.27550000004 3.2051e5 -3.3061e5 -3.3061e5 -3.3061e5 -3.3061e5 -3.3061e5
SG32 SG34 SG34 Model I Maxim Model S Response Distributic Estimation Dispersion Measure Number o BIC Measure Number o BIC Measure Number o BIC AICc Generalize BIC Comension BIC Comensi	6.4011e6 -2.764e5 1.264e5 1.264e5 2.8764e5 1.26045M umch umch umch umch umch umch umch umch	0.0000173 1.3986-5 0.000173 1.3986-5 0.000175 1.3986-5 Noore Log Identity 2075913 852700 50067465 310013944 10013944 10013944 10013944 1001359 0.0116081 <b>Std Error</b> 5.2612-6 2.2612-6 2.2612-6 2.2512-6 2.2572-6 2.5732-6 2.5752-6 2.5752-7 2.5752-7 2.5752-7 2.5752-7 2.5752-7 2.5752-7 2.5752-7	0.1366615 3.9050854 775.4107 gltning.en i.1 omial celihood i.1 Omial celihood celihod	0.7114 0.0431* 4.1 Prob > ChiSquare <.0001* 0.3670 0.0001* 0.0001* 0.0001* 0.0001* 0.0001* 0.0001* 0.0001* 0.0001* 0.0001* 0.0001*	Lower 95% 1 2432000 1 244455 6 359265 - 3.13266 5 - 5.25655 - 3.13266 - 5.25655 - 3.13266 - 5.25655 - 3.13266 - 5.25655 - 3.13266 - 5.25655 - 3.13266 - 5.25655 - 3.13266 - 3.13666 - 3.13	4.0314e5 -2.261e7 1.2755me 1.2759e5 -2.887e5 9.0746e6 -7.7086e5 -2.437e5 0.0000043 3.2061e5 -3.000000000000000000000000000000000000
SG32 SG34 Signerali Iodel La Maxim Model S Response Response Distributio Estimation Mean Mo Dispersion Mean Mo Number o Dispersion Mean Mo Response Number o Bio Alice Generalize Parame Parame Vision Signer Sig	6.4011e6 -2.764e5 1.2604544 zed Regre unch um Likelii Summary on Method del Link f nows equencies hood del Link f Parameters d RSquare ter Estimate 1.4765e5 -3.819e5 -0.00003 2.8604e6 1.4765e5 -3.819e5 -0.00003 2.8604e6 1.4765e5 -3.819e5 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00002 -0.5708e7 -0.6004e3 -0.5729e5 -0.6004e3 -0.5729e5 -0.6004e3 -0.5729e5 -0.6004e3 -0.5729e5 -0.6004e3 -0.5729e5 -0.6004e3 -0.5729e5 -0.6004e3 -0.5729e5 -0.60042 -0.5729e5 -0.60042 -0.5729e5 -0.60002 -0.5729e5 -0.60044 -0.5729e5 -0.60002 -0.5729e5 -0.600464 -0.5729e5 -0.60002 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.5729	0.0000173 1.3986-5 0.000173 1.3986-5 0.000173 ssion for li hood lightning.enc Negative Bin Maximum Li None Log ldentity 2075913 852760 50067465 310013599 0.0116081 stef for Ori Std Error 1.49216-6 2.2612e-6 2.25108-6 2.0235e-6 2.0358-6 2.0358-6 2.0358-6 2.0358-6 2.0358-6 2.0358-6 2.0389-6 3.0399-6 3	0.1366615 3.90508544 3.90508544 3.9050854444444444444444444444444444444444	0.7114 0.0431* 2.0001* d.1 d.1 d.1 d.1 d.1 d.1 d.1 d.1 d.1 d.1	Lower 95% 1.184-5 1.184-5 1.343000 1.184-5 1.343000 1.184-5 1.33346 1.33346 1.33346 1.33346 1.33346 1.3356 1.33466 1.33466 1.33466 1.33466 1.334666 1.33466666666666666666	4.0314e5 -2.261e7 1.3755me 1.3755me 1.3755me 2.887e5 9.074ec6 7.708e5 -2.436e5 9.074ec6 7.708e5 -2.436e5 4.6442e5 2.45042e5 4.6442e5 2.25042e6 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 2.26142e7 4.6442e5 4.
SG32 SG34 SG34 Model 1 Maxim Model 5 Response Distributic Estimation Dispersion Mean Mo Dispersion Mean Mo Dispersion Meanure Number o Bic Alco Generalize Parame Farame KSG1 SG35 SG35 SG35 SG35 SG35 SG35 SG35 SG35	6.4011e6 -2.764e5 1.26	0.0000173 1.3986-5 0.000173 1.3986-5 0.000173 1.3986-5 Negative Bin Maximum Lil None Log Identity 2075913 852760 50067465 333 10013594 10013559 310013944 10013559 2.2612-6 2.2612-6 2.2612-6 2.2512-6 2.31706-6 2.31706-6 2.31726-6 3.30955-6 3.3095-	0.1366615 3.9050824 775.4107 gltning.en i.1 i.1 i.1 i.1 i.1 i.1 i.1 i.1 i.1 i.1	0.7114 0.0431* 2.0001* d.1 2.0001* 2.0000* 2.0000* 2.0000* 2.0000* 2.	Lower 95% 1 2432000 1 244455 6.3972e5 -3.2365 -3.2365 -5.23655 -3.13366 -5.23655 -3.13366 -3.3563e5	4.0314e5 -2.261e7 1.2755me 1.2755me 1.2755me 1.2759e5 -2.887e5 -2.887e5 -2.887e5 -2.436e5 6.1238e5 -2.436e5 6.1238e5 -2.436e5 6.1238e5 -2.436e5 6.1238e5 -2.436e5 6.1238e5 -2.436e5 6.1238e5 -2.436e5 6.1238e5 -2.436e5 6.1238e5 -2.436e5 6.1238e5 -2.436e5 6.1238e5 -2.436e5 6.1238e5 -2.436e5 6.1238e5 -2.436e5 6.1238e5 -2.6148e5 -2.614865 -2.614865 -
SG32 SG34 Sienerali Response Distributio Substributio Dispersion Mean Mo Substributio Dispersion Mean Mo Hold Substributio Substribution Mean Mo Hold Substribution Mean Mo Hold Substribution Subs	6.4011e6 -2.764e5 1.2604544 zed Regre unch um Likelii Summary on Method del Link f nows equencies hood del Link f Parameters d RSquare ter Estimate 1.4765e5 -3.819e5 -0.00003 2.8604e6 1.4765e5 -3.819e5 -0.00003 2.8604e6 1.4765e5 -3.819e5 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00003 2.8604e6 -0.00002 -0.5708e7 -0.6004e3 -0.5729e5 -0.6004e3 -0.5729e5 -0.6004e3 -0.5729e5 -0.6004e3 -0.5729e5 -0.6004e3 -0.5729e5 -0.6004e3 -0.5729e5 -0.6004e3 -0.5729e5 -0.60042 -0.5729e5 -0.60042 -0.5729e5 -0.60002 -0.5729e5 -0.60044 -0.5729e5 -0.60002 -0.5729e5 -0.600464 -0.5729e5 -0.60002 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.5729e5 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.57299 -0.5729	0.0000173 1.3986-5 0.000173 1.3986-5 0.000177 ssion for li hood lightning.enc Negative Bin Maximum Li None Log 2075913 852760 50067465 322760 50067465 310013599 0.0116081 ster for Ori 51.4921-6 2.21508-6 2.21508-6 2.31786-6 2.3788-6 3.31506-6 3.31506-6	0.1366615 3.90508544 3.90508544 3.9050854444444444444444444444444444444444	0.7114 0.0431* 2.0001* d.1 d.1 d.1 d.1 d.1 d.1 d.1 d.1 d.1 d.1	Lower 95% 1.2432000 1.2432000 1.2432000 1.2432000 1.2432000 1.2432000 1.2432000 1.24425 3.3546 6.337265 3.32465 3.32465 3.32465 3.32465 3.32465 3.32465 3.325655 -0.000040 0.000040 1.154655 -0.000040 0.000040 1.154655 -0.000040 0.000040 -1.154655 -0.000040 0.000040 -1.154655 -0.000040 0.000040 -1.154655 -0.000040 -0.0	4.0314e5 -2.261e7 1.2755m0 1.7689e5 -2.87e5 -2.87e5 -2.87e5 -2.87e5 -2.87e5 -2.436e5 -2.43765 -2.436e5 -2.436e5 -2.43765 -2.436e5 -2.4578e5 -2.45788e5 -2.4578e5 -2.4578e5 -2.4578e5 -2.4578e5 -2.4578e5 -2.4578e5 -2.4578e5 -2.4578e5 -2.4578e5 -2.4578e5 -2.4578e5 -2.4578e5 -2.4578e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.45788e5 -2.457888 -2.4578886588 -2.4578886588888888888888888888888888888888
SG32 SG34 Senerali iodel La Maxim Model 5 Response Distributic Estimation Mean Mo Dispersion Mean Mo Sum of Frr Loglikeli Number o Sum of Frr Loglikeli Number o Sum of Frr Loglikeli Alca Generalize Parame Term SIG SG32 SG32 SG32 SG32 SG32 SG32 SG32 SG3	6.4011e6 -2.764e5 1.260454 zcd Regre unch um Likelil Summary on N Method Method del Link N Method del Link N Model Link N Model Link N Model Link N Model Link N Model Link Parameters equencies hood Parameters ter Estimate 1.4765e5 -3.819	0.0000173 1.3986-5 0.000173 1.3986-5 0.000173 ssion for li hood lightning.enc None Log lentity 2075913 852760 50067465 33 10013599 0.0116081 1.4921-6 2.1508-6 5 3.1706-5 3.3453-6 6 2.2612-6 5 3.3453-6 6 2.2612-6 5 3.3453-6 5 2.2788-6 5 2.3788-6 2.2704-6 2.3788-6 2.2704-6 2.3788-6 2.2704-6 2.2738-7 2	ginal Predia 3.9050854 3.9050854 3.9050854 3.9050854 3.9050854 3.9050854 3.9050854 3.9050854 3.905085	c.tors Prob > ChiSquare <.0001* <.0001* ChiSquare <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* 0001*<br <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <.0001* <	Lower 95% 1.184-5 1	4.0314e5 -2.261e7 1.3755me 1.3755me 1.3755me 2.887e5 9.0746e5 -2.887e5 9.0746e5 -2.8755 -2.436e5 -2.446e5 -2.44
SG32 SG34 Nearenalis SG34 Nearenalis Response Distributic Estimation Mean Mou Dispersion Mean Mou Dispersion Mean Mou Dispersion Mean Mou Statistic Mean Mou Statistic Statistic SG2 SG35 SG35 SG35 SG35 SG35 SG35 SG35 SG35	6.4011e6 -2.764e5 12604544 zed Regre umch um Likelii Summary on Method del Link Moted del Link M	0.0000173 1.3986-5 0.000173 1.3986-5 0.000173 ilightning.enc Negative Bin Maximum Li None Log Identity 2075913 852700 50067465 310013944 10013599 0.0116081 <b>Std Error</b> 1.4921e-6 2.2612e-6 3.1706-6 2.2513e-6	0.1366615 3.9050824 3.9050824 3.9050824 3.9050824 3.9050824 3.9050824 3.9050824 3.9050824 3.905082 3.9	0.7114 0.0431* 2.0001* d.1 ChiSquare <.0001* 2.0000* 2.000* 2.0000* 2.0000* 2.0000* 2.0000* 2.	Lower 95% 1 2430ee 1 243	4.0314e5 -2.261e7 1.2755me 1.2755me 1.2755me 1.2755me 1.4647e5 0.0000043 3.2061e5 1.4647e5 0.0000043 3.2061e5 1.4647e5 0.0000043 3.2061e5 1.4647e5 0.0000043 3.2061e5 1.4647e5
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1. REPOR	1. REPORT DATE (DD-MM-YYYY)     2. REPORT TYPE       26-03-2020     Master's Thesis					<b>3. DATES COVERED</b> (From – To) October 2018 – March 2020	
TITLE AND SUBTITLE					5a.	CONTRACT NUMBER	
45 WS Electric Field Mill Lightning Prediction Threshold Analysis					sis 5b.	GRANT NUMBER	
					5c.	PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)					5d.	PROJECT NUMBER	
Skrovan, Charles A., Major, USAF						TASK NUMBER	
5						WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAMES(S) AND ADDRESS(S) Air Force Institute of Technology						8. PERFORMING ORGANIZATION REPORT NUMBER	
Graduate School of Operational Sciences (AFIT/ENS) 2950 Hobson Way						AFIT-ENS-MS-20-M-171	
WPAFB OH 45433-8865							
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) 45TH WEATHER SOUADRON						10. SPONSOR/MONITOR'S ACRONYM(S)	
MORRELL OPERATIONS CENTER					45 WS/WXT		
CAPE CANAVERAL, FL. 32920					11. SPONSOR/MONITOR'S REPORT		
COMM: (321) 853-8610						NUMBER(S)	
EMAIL: william.roeder@us.af.mil ATTN: ROEDER							
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14. ABSTRACT							
Electric field mills at Cape Canaveral continuously record data from 31 separate EFM sites 24 hours a day at a rate of 50 Hz. This produces 4,320,000 lines of recorded data daily for each EFM site, a total of							
more than 16 billion data points annually for the active thunderstorm season. This study seeks to							
determine a single electric field mill reading threshold for lightning onset and a separate single EFM reading threshold for lightning cessation. Statistical analysis of the EFM and Lightning Detection and							
Ranging (LDAR) parameters show there is no measurable correlation between EFM readings and							
lightning activity. Further, attempts to build models using threshold analysis, standard least squares							
regression fitting, nominal logistic regression fitting, and negative binomial regression fitting are unable to							
accurately predict any meaningful amount of lightning activity. The best of these models can only account							
for 16% of the variance in the dataset. Overall results show EFM readings do not correlate well with lightning activity and any attempts to predict lightning proved ineffective.							
15. SUBJECT TERMS							
Statistical Analysis, Standard Least Squares Regression, Threshold Analysis, Negative Binomial Regression,							
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