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IONOSPHERIC DATA: BANGKOK, THAILAND

Compiled by: VICHAI T. NIMIT

Prepared for:
U.S. ARMY ELECTRONICS LABORATORIES
FORT MONMOUTH, NEW JERSEY

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SPONSORED BY THE ADVANCED RESEARCH PROJECTS AGENCY
FOR THE
THAI-U.S. MILITARY RESEARCH AND DEVELOPMENT CENTER
SUPREME COMMAND HEADQUARTERS
BANGKOK, THAILAND

STANFORD RESEARCH INSTITUTE
MENLO PARK, CALIFORNIA

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APR 25 1966
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Ionospheric observations are being carried out at the Laboratory of the Military Research and Development Center at Bangkok, Thailand, a joint United States-Thailand organization. A Model C-2 vertical-incidence sounder supplied and operated by the United States Army Radio Propagation Agency has been installed there. Table I gives pertinent information about the site.

### Table I

<table>
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<th>Geographic</th>
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<tr>
<td>Latitude</td>
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Dip angle: 10°N  
Distance from dip equator: 450 km  
Equipment:  
- Instrument: Type C2 (automatic)  
- PRF: 60 pps  
- Frequency sweep time: 30 sec  
- Frequency sweep range: 1 to 25 Mc  
- Pulse duration: 50 μsec  
- Peak pulse power: approximately 10 kw.

The cooperation and participation of staff members of the Thailand Ministry of Defense and the support of the United States Advanced Research
Projects Agency, the United States Army Electronics Laboratories, and the United States Army Radio Propagation Agency made it possible for the data presented in this report to be accumulated.
The terminology and symbols used in this data report are in accordance
with the conventions established by the World Wide Soundings Committee.¹

A. TERMINOLOGY

- $f_{0F2}$: The ordinary wave critical frequency for the $F_2$ and $F_1$ layers
  and the $E$ region, respectively.

- $f_{0E}$: The ordinary wave top frequency corresponding to the highest
  frequency at which a mainly continuous $E_s$ trace is observed.

- $f_{bE_s}$: The blanketing frequency of an $E_s$ layer, i.e., the lowest
  ordinary wave frequency at which the $E_s$ layer begins to
  become transparent. (This is usually determined from the
  minimum frequency at which reflections from layers at
  greater heights are observed.)

- $f_{\text{min}}$: The frequency below which no echoes are observed.

- $M(3000)$: The maximum usable frequency factor for a path of 3000 km
  for transmission by the $F_2$ layer.

- $h'F_2$: The minimum virtual height of the ordinary wave trace for the
  highest stable stratification in the $F$ region.

- $h'F$: The most significant $F$-region virtual height parameter, that
  for the lowest $F$-region stratification. (Thus $h'F$ is identical
  with the current $h'F_2$ when $F$-region stratification is absent,
  i.e., at night, and with current $h'F_1$ when $F_1$ stratification is
  present.)

¹ W. R. Piggott and K. Rawer, URSI Handbook of Ionogram Interpretation and
Reduction of the World Wide Sounding Committee (Elsevier Publishing Company,
B. DESCRIPTIVE LETTERS

Certain effects observed on ionograms may make it difficult or impossible to obtain accurate numerical values. The descriptive letters listed below, when used alone indicate, in general, the presence of a phenomenon that may have influenced the measurement. Qualifying letters (Sec. C) indicate the nature of the uncertainty.

A  A lower thin layer present, e.g., F₃⁺
B  Absorption in the vicinity of \( f_{\text{min}} \)
C  Any non-ionospheric reason
D  The upper limit of the normal frequency range
E  The lower limit of the normal frequency range
F  Spread echoes present
G  Ionization density of the layer too small for measurement
H  Stratification present
I  No sufficiently definite cusp between layers of the trace
M  Ordinary and extraordinary components indistinguishable
N  Conditions such that the measurement cannot be interpreted
O  Measurement referring to the ordinary component
R  Attenuation in the vicinity of a critical frequency
S  Interference or atmospherics
T  Value determined by a sequence of observations, the actual observation being inconsistent or doubtful
V  Forked trace
W  Echo lying outside the height range recorded
X  Measurement referring to the extraordinary component
Y  Intermittent trace
Z  Third magneto-ionic component present.

C. QUALIFYING LETTERS

D  Greater than...
E  Less than...
I An interpolated value.
J Ordinary component characteristic deduced from the extraordinary component.
O Extraordinary component characteristic deduced from the ordinary component.
T Value determined by a sequence of observations, the actual observation being inconsistent or doubtful.
U Uncertain numerical value.
Z Measurement deduced from the third magneto-ionic component.

D. DESCRIPTION OF STANDARD TYPES OF Es

The eight standard types of Es are identified by lower-case letters: f, l, c, h, q, r, a, and s. These letters suggest the corresponding names, flat, low, cusp, high, equatorial, retardation, auroral, and slant, respectively, but are not restrictive. The letter n is used to designate an Es trace that does not correspond to one of the eight types. The classifications are:

f An Es trace showing no appreciable increase of height with frequency, usually relatively solid at most latitudes. (This classification may be used only at night; it appears that flat Es traces observed in the daytime are classified according to their virtual height: h or l.)

l A flat Es trace at or below the normal E-region minimum virtual height in the day or below the E-region minimum virtual height at night.

c An Es trace showing a relatively symmetrical cusp at or below fE. (This is usually continuous with the normal E trace, although when the deviative absorption is large, part or all of the cusp may be missing—usually a daytime type.)

h An Es trace showing a discontinuity in height with the normal E-region trace at or above fE and an asymmetrical cusp. (The low-frequency end of the Es trace lies clearly above the high-frequency end of the normal E trace—usually a daytime type.)

q An Es trace that is diffuse and nonblanketing over a wide frequency range, the spread being most pronounced at the upper edge of the trace. (This type is common in daytime in the vicinity of the magnetic equator.)

r An Es trace that is nonblanketing over part or all of its frequency range, showing an increase in virtual height at the high-frequency
end similar to group retardation. (This is distinguished from the usual group retardation—as in the case of an occulting thick E region—by the lack of group retardation in the F traces at corresponding frequencies and the lack of complete blanketing.)

3 An Es pattern having a well-defined flat or gradually rising lower edge with stratified and diffuse (spread) traces present above it. (These sometimes extend over several hundred kilometers of virtual height.)

s A diffuse Es trace that rises steadily with frequency, usually emerging from another type of Es trace. (The rising trace alone is classified as s; the horizontal trace is classified separately. At high latitudes, the slant trace usually starts to rise from a horizontal Es trace, such as I or f, at frequencies that greatly exceed the E-region critical frequency, e.g., about 6 Mc; whereas at low latitudes it usually rises from equatorial-type Es, q, e, or h, at frequencies near the regular E critical frequency. Type s is never used to determine E unless echoes clearly identifiable as Es echoes are seen.)

n An E trace that cannot be classified as one of the standard types. (This must not be used for intermediate cases between any two classes. A choice should always be made whenever possible, even if it is doubtful.)

E. MULTIPLE REFLECTIONS FROM Es

When the ionogram shows the presence of multiple reflections from Es, the number of traces seen will be recorded with the letter indicating the type.
Characteristics:

Observed at:
Bangkok, Thailand
Lat. 13.73°N, Long. 100.57°E
105°E Mean Time (GMT + 7 hours)

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Median Count: 017, 016, 019, 025, 029, 033, 034, 040, 064

Tabulation of 029 = 2.9 Mc.
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| C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C | C |
| 032 | 041 | 033 | 036 | 029 | 031 | 027 | E025*S | 031 | 023 | C | 024 | 021 | E026*S |
| 035 | 035 | C | 027 | E041*C | C | C | E030*C | C | E027*S | 016 | E090*S | E028*C |
| 011 | 016 | 050 | 031 | 036 | 040 | 030 | 030 | 029 | 019 | 018 | 018 | 020 |
| 029 | C | 036 | 041 | 040 | 033 | 029 | C | E032*S | S | S | 017 | 017 | 018 |
| 066 | B | 063 | 046 | C | 034 | C | 036 | 031 | 030 | 031 | 031 | 035 | C | C | C | C | C |
| 031 | 041 | 039 | 024 | 029 | 020 | E024*S | E026*S | 018*S | C | 019 | C | C | E017*S | 026 | 017 |
| 032 | 040 | 036 | 035 | 039 | 029 | 024 | 023 | 019 | 017 | 017 | 017 | 018 |
| 034 | 040 | 039 | 040 | 035 | 031 | 024 | 023 | 019 | 017 | 017 | 017 | 018 |
| 036 | 039 | 040 | 033 | 026 | 023 | 029 | E018*S | E017*S | C | E018*S | E018*S |
| 040 | 027 | 033 | 034 | 022 | 027 | 023 | 019 | 017 | 018 | 017 | 018 |
| 043 | 026 | 029 | 040 | 022 | 023 | 023 | 019 | 017 | 018 | 017 | 018 |
| 044 | 040 | 039 | 036 | 031 | 027 | 025 | 018 | 018 | 018 | 017 | 017 |
| 039 | 040 | 040 | 039 | 038 | 036 | 031 | 027 | 025 | 018 | 018 | 017 | 017 |
| 032 | 035 | 036 | 034 | 032 | 026 | 024 | 017 | 017 | 017 | 017 | 018 | 017 |
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**IONOSPHERIC DATA**

Sweep: 1 Mc to 25 Mc in 0.3 minute

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1OXYSPHERIC DATA
Sweep: 1 Me to 25 Me in 0.5 minute
October 1984

Observed at:
Bangkok, Thailand
Lat. 13.73°N, Long. 100.57°E
105ºE Mean Time (GMT + 7 hours)

* Tabulation of 235 = factor of 2.35.
# ICONEUMIC DATA

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Bangkok, Thailand
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**IONOSPHERIC DATA**

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October 1964

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IOYSCHERIC DATA

Sweep: 1 Mc to 25 Mc in 0.3 minute

October 1944

2
IOMOSPHERIC DATA

Sweep: 1 Mc to 25 Mc in 0.5 Mc
October 1964

Observed at:
Bangkok, Thailand
Lat. 13.73°N, Long. 100.67°E
105°E Mean Time (GMT + 7 hours)

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October 1964
**Characteristics:**

**TORSOPHIC DATA**

**Sweep:** 1 Mc to 25 Mc in 8

October 1964

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**Observed at:**

Bangkok, Thailand
Lat. 13.73°N, Long. 100.57°E
105°E Mean Time (GMT + 7 hours)

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*Tabulation of 355 = 3.55 Mc.*
Observation at:

Bangkok, Thailand

Lat. 13.73°N, Long. 100.57°E

105°E Mean Time (GMT + 7 hours)

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IONOSPHERIC DATA
Dec: 1 Mc to 23 Mc in 0.5 minute
October 1964
### Characteristic: ES

**Observed at:**
Bangkok, Thailand

Lat. 13.73\(^{\circ}\), Long. 106.57\(^{\circ}\)

150\(^{\circ}\) Mean Time (GMT - 7 hours)

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**Observed at:**

Bangkok, Thailand  
Lat. 13.73°N, Long. 100.57°E  
105°E Mean Time (GMT + 7 hours)

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- **Median Count:** 031, 033, 025, 023, 026, 026, 037, 024, 032, 038, 042, 045, 049
- **XQ:** 056, 035, 025, 027, 032, 029, - 03J, 033, 018, 048, 055, 047
- **XQ:** 023, 039, 023, 018, 018, 021, - 021, 027, 036, 039, 046
- **XQ:** 13, 5, 9, 14, 8, - 12, 6, 12, 9, 10, 11

*Tabulation of 04X = 4.8 Me.
Characteristics: S4a

Observed at:
Bangkok, Thailand
Lat. 13.73°N, Long. 100.57°E
105°E Mean Time (GMT + 7 hours)

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October 1964

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* Insufficient data for reliable median.
IONOSPHERIC DATA
MONTHLY MEDIAN CHARACTERISTICS
BANGKOK, THAILAND
OCTOBER 1964

Fig. 1 SUMMARY GRAPHS
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