# AD-A209 181

## A FINAL REPORT ON AN INVESTIGATION OF DEPLOYMENT RELATED FACTORS ON PERFORMANCE AND PSYCHOSOCIAL ADJUSTMENT

## Robert P. Archer, Ph.D, Principal Investigator Catherine V. Cauthorne, M.S., Research Associate Department of Psychiatry and Behavioral Sciences Eastern Virginia Medical School Norfolk, Virginia

October 1, 1986

Technical Report # 86-1 Approved for Public Release

Prepared for: OFFICE OF NAVAL RESEARCH 800 North Quincy Street Arlington, Virginia 22217

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REPORT DOCUMENTATION PAGE				Form Approved OMB No. 0704-0188			
1a. REPORT SECURITY CLASSIFICATION Unclassified		16. RESTRICTIVE MARKINGS			rilE	COPI	
28. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION	AVAILABILITY O				
N. A. 25. DECLASSIFICATION / DOWNGRADING SCHEDULE N. A.		Approved for public release; distribution unlimited.					
4. PERFORMING ORGANIZATION REPORT NUMBER(S)		5. MONITORING	ORGANIZATION R	EPORT NU	MBERI		
Tech. Rep. 86-1		Same Same					
6a. NAME OF PERFORMING ORGANIZATION 6b. OFFICE SYMBOL (If applicable) Eastern Virginia Medical School		Same 7a. NAME OF MONITORING ORGANIZATION Office of Naval Research					
Dept. of Psychiatry & Rehay Sci 6c. ADDRESS (City, State, and ZIP Code)		7b. ADDRESS (City, State, and ZIP Code)					
P. 0. Box 1980							
Norfolk, VA 23507		800 N. Quincy Street Arlington, VA 22217-5000					
	CE SYMBOL	9 PROCUREMEN	T INSTRUMENT ID	ENTIFICAT	ION NUMBE	R	
Office of Naval Technology Code	plicable) 222	N00014-	84-C-0666				
8c. ADDRESS (City, State, and ZIP Code)		10 SOURCE OF	UNDING NUMBER	rs			
800 N. Quincy Street		PROGRAM ELEMENT NO	PROJECT NO.	TASK NO		ORK UNIT CESSION NO.	
Arlington, VA 22217-5000		62233N	RM33M20				
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#### Executive Summary

In the fall of 1984, a two year research project was funded through the Office of Naval Research to study the effects of deployment on the functioning and adjustment of Navy personnel and their families. Surveys were collected, in pilot and main survey administrations, from approximately 4000 Navy personnel and spouses, across all type commands and selected shore-based installations.

Major findings are summarized as follows:

- 1) The deployment assessment survey instrument developed for this project functions well in terms of internal reliability and construct validity. It provides a standardized measure for assessing deployment-related attitudes and beliefs, as well as life stress levels and overall family functioning.
- 2) Individuals' coping mechanisms for dealing with deployment are grounded in overall aspects of family functioning, general coping skills in dealing with life stress, and specific beliefs and perceptions of deployment. This multi-dimensional concept is essential to those who are endeavoring to obtain a complete and accurate picture of deployment.
- 3) failors and their spouses interact strongly together to influence each other's attitudes and perceptions. Attempts to measure one without examining the other will lead to an incomplete data base. The intense work/family overlap predicted for military families is validated in this study.
- 4) Navy families describe themselves in significantly different ways from their civilian counterparts in terms of expression of feelings, family cohesion, coping with conflict, and establishment of order and structure in the family. Agencies dealing with these families should be sensitive to these differences, in order to maximize the delivery of services.
- 5) Based on the results of this study, a checklist of predictors for families and sailors at risk of developing problems during deployment has been generated. This checklist, located in Appendix D, is an easy-to-read, simple assessment tool that can be

used to sensitize sailors and/or spouses to factors in their lives which could disrupt coping mechanisms.

- 6) Location in the temporal deployment cycle, as well as educational level for sailors and spouses, can strongly affect perceptions and attitudes. Individuals within 90 days of leaving or returning from deployment reported higher degrees of dysfunctionality on multiple dimensions. Educational level also affected perceptions of distress and coping, with more highly educated individuals reporting less distress and enhanced coping.
- 7) The high return rate (66%) indicates the importance of deployment to sailors and families across rank, rate, and type command. The impact of deployment attitudes on retention intentions is a finding of major impact for the Naval Community.

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## PURPOSE:

The purpose of this technical report is to summarize findings from a two year ONR research contract conducted between October 1, 1984 and October 1, 1986. This technical report will describe and summarize the methodology and major research findings from this investigation and their implications for understanding phenomena related to deployment procedures among Navy personnel and their spouses. A prior technical report (85-1) has been prepared to summarize findings from the pilot phase of this investigation.

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#### OVERVIEW:

In the fall of 1984, a two year research project was funded through the Office of Naval Research to study the effects of deployment on Navy personnel and their families. In order to accomplish this task, the research team at Eastern Virginia Medical School, Department of Psychiatry, contracted to develop and administer a survey instrument to measure the emotional responses, perceptions and attitudes of Navy personnel and their spouses in response to deployment. This survey included measures of life stress history, family functioning and organization, perceptions of job performance, and issues related to morale and intention to reenlist. 2

Based on the view that the work and family environments of military personnel represent significantly interactive and overlapping environments, (Glickman, 1986; Curran, 1981; Stoddard & Cabanillas, 1976), the current investigation was designed to examine the effects of deployment on both Navy personnel and their spouses. Much of the prior literature in this area had focused exclusively on the responses of only one family member, typically either the spouse or the sailor, in studies of deployment effects (Decker, 1978; Pearlman, 1970; Snyder, 1978).

Additionally, the current research viewed deployment as a form of stress which impacts both the individual and the overall family unit (Den Dulk, 1980; Nice, 1979; Rosenfeld, Rosenstein, & Raab, 1983). In responding to such stress, it was hypothesized that both individuals and families would employ general adaptational resources which would interact with individual and family attitudes and perceptions specific to deployment phenomena in the determination of deployment adaptation. For these reasons, our survey involved general measures of family functioning and life stress as well as measures which were specifically related to deployment related attitudes, perceptions and responses.

## METHODOLOGY

In the creation of the deployment specific item pool for this survey, the research team conducted semi-structured interviews with 105 Navy personnel, ranging in rank from E-2 to Admiral. The content of these interviews specifically dealt with attitudes and problems related to predeployment, deployment, and post-deployment experiences from the perspectives of both individual and family functioning. Based upon the results of these interviews, combined with the reports from the published literature, the pilot survey was developed for field testing. In addition to the items specifically developed for this purpose, which were rationally or intuitively clustered into 24 scales, the research team also selected the Sarason Life Events Scale and the Moos Family Environment Scale for inclusion as general measures embedded within the research survey instrument. Based upon a comprehensive review of the literature, as well as personal communications with researchers in the stress assessment area, it was felt that the Sarason Life Events Scale represented the most productive measure of life stress events currently available (Sarason, Johnson, and Siegal, 1978). This instrument, develop d through ONR funding, offered a comprehensive measure which is capable of quantifying individual variations in positive and negative responses to life events

stressors. The Life Events Scale was included in two separate parts of the survey used in the study, i.e., the section to be completed by all service personnel as well as the section to be completed by spouses of married service personnel. In addition to the Sarason measure, the Moos Family Environment Scale was selected for inclusion in this survey (Moos, Insel, & Humphrey, 1974). The Family Environment Scale is a standardized measure which was designed to assess the social climates of a large variety of family types. The ten scales within this instrument focus on the measurement and description of interpersonal relationships among family members which are emphasized within their family, and on the basic organizational structure of the family. Similar to the Sarason, the Moos Family Environment Scale is presented twice within this ONR survey, once for all service personnel and again in the subsection for spouses. In the interest of reducing the overall length and complexity of this survey, five of the ten standard scales used in the Family Environment instrument were selected for study. Specifically, these included measures of Cohesion, Organization, Expressiveness, Conflict, and Control in the family.

The research survey in this investigation, therefore, varied in length depending upon the marital status and dependent status of the respondent. In the simplest case, i.e., a single sailor without dependents, the total item pool consisted of 110 items involving deployment specific

content and the Sarason Life Events Scale. In the most complex case, i.e., a married sailor with dependents, the sailor and spouse would collectively respond to 395 items involving separate administrations of the deployment specific item pool, the Moos et al. Family Environment Scale, and the Sarason et al. Life Events Scale.

## RESEARCH FINDINGS: PILOT STUDY

A detailed summary of the findings from the pilot administration of this survey are reported in Technical Report# 85-1 under contract # N00014-84-C-0666 (Archer and Cauthorne, 1985). These findings were based upon the responses of 399 sailors and 215 spouses, representing a return rate of 50% of those individuals contacted during the pilot. Based upon findings from the pilot, particularly related to internal reliability for deployment specific scales, minor revisions were made in the item pool of this survey prior to the main administration.

## MAIN SURVEY ADMINISTRATION METHODOLOGY

In February of 1986, the survey was distributed throughout the type and shore commands within the Norfolk Naval Base and selected SUBLANT commands in Charleston, South Carolina and Groton, Connecticut. The type commands

had designated the following individuals as liaison personnel for purposes of this study:

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Captain Daniel Branch, Operations Officer, SUBLANT Captain Robert Deane, Force Medical Officer, AIRLANT Lieutenant Mary Gee, Morale Officer, SURFLANT Dr. Alice Snyder, Deputy Director, Navy Family Services, Norfolk, Virginia.

With the exception of Lieutenant Gee, who replaced Lieutenant Commander Mary Lukaszewicz, these liaison officers were the same liaison personnel employed in the pilot phase of this investigation. These personnel were responsible for coordination of the logistic requirements necessary to accomplish the survey administration and served as central return points for completed surveys. For all type commands, the liaison officers indicated that the most effective means of survey administration would be through Naval distribution and collection of survey instruments. These Navy type command liaison officers were also responsible for the selection of "target" units for survey administration. Units were selected for participation in the study based upon a combination of criteria involving their point in the deployment cycle and availability for research procedures.

### SAMPLE CHARACTERISTICS

As a result of the above procedures, research surveys were distributed beginning February 1, 1986 to 1000 Navy Б

personnel in Naval Airwings, 1000 personnel in the SUBLANT commands in Virginia, South Carolina and Connecticut; 1000 personnel in the SURFLANT command; and 425 personnel in the Norfolk Naval Base Shore commands. In order to protect subject confidentiality, all personnel were requested to seal completed surveys in individual manila envelopes and return them directly to their command liaison officer. All surveys were returned to the research contractor's office by March 30, 1986. Table 1 illustrates the return rates accomplished by type command and shore command status. It may be noted that a total of 2245 Navy personnel returned their surveys, as well as an additional 1155 spouses of Navy personnel. Therefore, the overall return rate for the survey among Navy personnel was 65.6%. Among Naval personnel returning the survey, 94.6% were male and 4.9% were female. In addition, 88.9% were enlisted respondents and 11.1% were officers.

As shown in Table 2, the mean age of Navy respondents to this survey was 27.5 years with a range in age from 18 to 57 years. The mean educational grade level of these Navy personnel was 12.93 years with a mean educational or grade level for spouses of 12.94 years. The mean number of prior deployments for this sample of Naval personnel was 7.31. Of the Navy personnel responding to this survey, 1165 (51.9%) were married for the first time, 203 (9.0%) were remarried, 107 (4.8%) were divorced, and 752 (33.5%) were single. Upon return of all survey data to the contract office, data were

coded and entered into the mainframe computers at Eastern Virginia Medical School and Old Dominion University for statistical analyses. The primary statistical package employed for data analysis was SPSS-X. 8

#### DATA ANALYSIS

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As an initial point of data analysis, the 24 scales developed from the deployment specific item pool in this survey, as well as the 5 Moos Family Environment Scales, were examined in terms of their internal reliability coefficients using Cronbach's Alpha Coefficient Statistic. The results of these analyses appear in Table 3. In general, the results of these analyses are highly consistent with the pilot phase of this investigation. The internal reliability coefficients offer an overall evaluation of the degree to which individual items within a particular measure correlate with overall scores generated by that scale. To the degree to which measures are effective in attempting to quantify a unitary dimension of a particular construct, overall iter-total reliability coefficients should be high. As shown in Table 3, the reliability coefficients for the scales specifically created for this survey were generally within acceptable ranges, with alpha coefficient values of .60 or higher for 18 of the 24 scales. The internal

reliability findings for the deployment specific subscales were generally consistent with reliability levels found for the FES scales.

## FACTOR ANALYSES:

While a total of 36 scales were used in the current pilot survey instrument, there are many theoretical and conceptual reasons to assume that a relatively smaller number of underlying or basic dimensions probably accounted for the majority of variance among these scale scores. Further, the results of factor analysis of pilot data substantiated a view that three factors primarily accounted for the majority of survey scale variance. To examine this hypothesis from the data in the main survey, a series of factor analyses were performed on scale scores using varimax rotation procedures with eigenvalues of 2.0 or greater. The results of these factor analyses are presented in Tables 4, 5 and 6. Table 4 presents the results of a factor analysis for all scales employed in this survey as answered by all respondents. This factor analysis yields a 3 factor solution with the following dimensions: sailors' positive attitudes toward deployment and family (25.4% of total scale variance); spouses' negative attitudes toward deployment and family (8.5% of total scale variances); and sailors' perceptions of marital distance and family conflict (6.3% of total scale variance). Table 5 presents findings from the factor analysis of scales applicable to spouses, i.e.,

scales completed by the spouses of Naval personnel. The two factors generated from this analysis were labeled as follows: 1) spouses' negative emotional responses to deployment and concerns regarding family functioning (30.5% of total subscale variance); 2) spouses' Post-deployment emotional distress and perception of family conflict (10.1% of total subscale variance). Table 6 presents the factor analysis of scales directly applicable to sailors. The two factors generated from this analysis were labeled as follows: 1) sailor's positive views of deployment, the job and the family (32.0% of total subscale variance) and; 2) sailors' need for marital distance (11.2% of total subscale variance). In general, the results of factor analysis generated by the main survey administration tend to be similar to pilot factor analytic findings in terms of nature and number of factor components. The relative variance accounted for by factors, however, tends to be substantially less in the main body of the survey. This change in variance accounted for is likely to be a product of differing factor analytic techniques between pilot and main body analyses. In the pilot survey, factor analyses employed a PA2 factor analysis and rotation procedure which tended to maximize the amount of variance accounted in relation to the SPSS-X procedures (principal components analysis) utilized for the main survey data.

In general, the results of factor analytic analyses of survey scales support the following conclusions:

- The largest portions of survey variance are accounted for by respondents' perceptions of deployment-specific and family phenomena;
- 2) Roughly 40% of spouses' survey ratings were accounted for by their emotional responses to deployment and reunion periods and perceptions of family coping and conflict.
- 3) Roughly 43% of sailors' survey responses were accounted for by their perceptions of deployment, job, marriage and family.

## MULTIPLE REGRESSIONS:

A series of stepwise multiple regressions were performed to examine the ability of survey subscale scores to predict to twelve outcome indicators or criteria. The results of these multiple regressions are summarized in Tables 7 through 10. The linear multiple regression analyses standardly utilized an F to enter or remove of 1.0, and a tolerance of .1. In terms of prediction of sailors'

ratings of their overall job performance, separate multiple regressions were performed on data from single service personnel, married service personnel without children, and married personnel with children. For single personnel, the variables of individual commitment to the Navy, deployment related amotional distress, positive deployment attitudes, and sailors' reports of Life Stress Events, were regressed on to single sailors' self-reports of job performance derived from a ten item scale. The results of this multiple regression identified one significant predictor, i.e., individual commitment to the Navy scale scores, with a correlation of .89 to this outcome criterion.  $(R^2 = .80)$ . Scores from 32 scales were employed in the regression to married personnel without children. The results of this multiple regression identified four significant predictors to overall job performance, i.e., sailors' right stuff attitudes, sailors' deployment related emotional related distress, sailors' positive deployment attitudes, and spouses' views of family organization, which collectively produced a multiple correlation value of .83 with the outcome criterion  $(\mathbb{R}^2 = .39)$ . 36 scales were employed in the regression to job performance ratings for married personnel with children. The results of the analyses indicated fiv significant predictors, including sailors' deployment related emotional distress, right stuff attitude, positive deployment attitude, individual commitment to the Navy, and spouses' ratings of family organization which collectively

resulted in a multiple R value of .58 with the outcome criterion, accounting for 34% of all variance.

In the second series of regression analyses sailors' ratings of individual commitment to the Navy were examined separately for single personnel, married personnel without children, and married personnel with children. The most important predictor of individual commitment to the Navy for single personnel was their self perceptions of job overall performance  $(R^2=.80)$ . Among married personnel without children, the most powerful predictors of individual commitment to the Navy consisted of spouses' views of family conflict, sailers' positive deployment attitudes, sailers' views of family conflict, spouses' deployment related emotional distress, sailors' deployment related emotional distress, spouses' post-deployment emotional distress, and sailors' ratings of family control. Collectively, these predictors bore a multiple R of .73 with the outcome criterion ( $R^2$  =.53). The most powerful predictors of individual commitment among married personnel with children involved the following eight variables which bore a multiple R relationship with the outcome criterion of .65 ( $\mathbb{R}^{2}$ =.43). These latter predictors were: spouses' ratings of family communication problems, sailors' positive deployment attitude, sailors' ratings of family conflict and communication problems, spouses' ratings of family coping, sailors' deployment related emotional distress, sailors' ratings of family control, sailors' ratings of job

performance, and sailors' ratings of degree of emotional expressiveness within their families.

The next series of multiple regressions attempted to predict to married sailors' ratings of their families' overall coping abilities analyzed separately for married sailors with and without children. Married sailors' (without children) ratings of family coping ability were predicted to 65% of total variance with the following factors: sailors' perception of family conflict and problems in communication, sailors' predeployment emotional distress, spouses' ratings of family coping, sailors' right stuff attitudes, sailors' deployment related emotional distress, sailors' histories of life stress events, and sailors' individual commitment to the Navy. Among married personnel with children, the following six predictors produced an  $\mathbb{R}^2$  value of .67 with the outcome criterion: sailors' perceptions of communication conflicts within the family, spouses' ratings of family coping ability, sailors' predeployment and deployment emotional distress, sailors' right stuff attitudes, and sailors' predeployment attitudes.

In the prediction of spouses' perceptions of family coping ability for families without dependent children, the following seven variables held a multiple correlation value of .82 with the criterion  $(R^2 = .68)$ : Spouses' ratings of deployment emotional distress, sailors' perceptions of family coping ability, spouses' postdeployment emotional distress, spouses' ratings of right stuff attitude, spouses'

predeployment attitudes, sailors' positive deployment attitudes, and spouses' histories of life stress events. Among spouses with dependent children a series of eight predictors resulted in a predicted variance of 76% with spouses' ratings of family coping: spouses' deployment emotional distress, sailors' ratings of family coping ability, spouses' postdeployment emotional distress, spouses' ratings of family cohesiveness, spouses' right stuff attitude, sailors' rating of predeployment emotional distress, sailors' rating of predeployment emotional distress, sailors' right stuff attitude, and sailors' ratings of individual commitment to the Navy.

In a separate series of multiple regression analyses, sailors' ratings of deployment related emotional distress were predicted for married sailors with and without children. For married sailors without children, roughly 58% of sailors' ratings of their degree of deployment related emotional distress was accounted for by predictors in a six step regression, with sailors' predeployment emotional distress serving as the primary contributor and accounting for approximately 41% of the total variance. Among married sailors with children, roughly 59% of sailors' ratings of deployment related emotional distress was accounted for by predictors in a 8 step multiple regression, with predeployment emotional distress again serving as a primary contributor and accounting for approximately 36% of total outcome variance. Among spouses' self reports of deployment related emotional distress in families without children,

roughly 76% of the variance was accounted for in a 9 step regression equation, in which spouses' ratings of their families' overall ability to cope accounted for 62% of the total outcome variance. Among spouses with children, a total of 78% of deployment related emotional distress ratings were accounted for by a ten step multiple regression equation in which spouses' ratings of their families' overall ability to cope accounted for 67% of the total outcome variance.

In general, it might be noted that the multiple regression results regarding sailor and spouse emotional distress during deployment periods were highly similar to findings from the pilot, particularly in relationship to spouses' self-report. Finally, a series of multiple regressions were performed to predict to both sailor and spouses' ratings of their childrens ability to cope. Sailors' assessment of their children's coping abilities were predicted by a four-step equation, which accounted for 58% of total variance with the following predictor variables: sailors' ratings of overall family coping, sailors' perceptions of interpersonal distance from children, sailors' predeployment emotional distress, and sailors' needs for marital distance. Spouses' assessments of children's coping abilities accounted for 65% of total variance with three predictor variables: spouses' perceptions of interpersonal distance from children, spouses' ratings of overall family coping, and spouses'

predeployment emctional distress.

In summary, the results of multiple regressions support the following conclusions:

- 1) Overall, the regression equations indicated a interactive relationship between work and family variables as predictors of family functioning and affective responses to deployment. Work issues, such as job performance and commitment to the Navy, were strongly influenced by family variables and affective responses, while family coping levels were influenced by work-related scales. The presumed interrelationships between the work and family environments postulated by Glickman (1985) is clearly demonstrated in these results.
- 2) Spouses and sailors strongly influence each other's perceptions on family issues, such as perceptions of family coping, in addition to work issues, such as commitment to the Navy. The importance of studying both partners in the family relationship is underscored by the interrelatedness of their perceptions.
- 3) The phenomenon of deployment is enmeshed in a web of family and emotional issues, and individuals' behaviors must be viewed in the light of these factors. For example, individual commitment to the Navy was profoundly affected by family variables,

such as family conflict and control styles, and by affective responses to deployment, such as levels of emotional distress surrounding all phases of the deployment experience. Responses to deployment involve individual and family emotional responses and perceptions of both the work and family environments.

4) When higher levels of emotional distress surround the phases of the deployment phenomenon, they contribute to diminished perceptions of family functioning for both sailors and spouses. Families report less ability to cope in effective ways as reported levels of emotional distress increased. This is also demonstrated in the ratings of children's coping performance, which were reported as lower by both sailors and spouses when emotional distress was higher and overall family coping is seen as decreased.

#### MANOVA:

MANOVA analyses were performed to examine the potential effects of temporal location in the deployment cycle on respondents self-reports across subscales. Specifically, a MANOVA was performed examining the effects of sailors' location in the deployment cycle grouped into categories of: 1) on ship, not deployed; 2) scheduled for deployment within 90 days; 3) returned from deployment within 90 days or; 4)

assignment to shore duty. The results of this MANOVA analysis indicated a significant overall effect for placement in the deployment cycle across survey subscales for service personnel, F(3,413)=1.79 P<.001. These findings indicate that placement or point in the deployment cycle had significant and pervasive overall effects on sailors' responses to research survey scales. Specifically, the following scales showed univariate ANOVA effects for placement in the deployment cycle: sailors' need for marital distance, sailors' right stuff attitude, sailors' ratings of individual commitment to the Navy, sailors' and spouses' positive deployment attitudes, sailors' predeployment attitudes, sailors' and spouses' level of predeployment emotional distress, sailors' and spouses' levels of deployment related emotional distress, sailors' and spouses' perceptions of family coping, sailors' ratings of job performance, sailors' and spouses' ratings of communication problems and conflict within the family, sailors' ratings of childrens' lack of coping ability, sailors' ratings of family control style, and sailors' and spouses' ratings on the Sarason Life Stress Events Scale.

To illustrate the pattern of significance found in these analysis, the specific subscale findings are provided for illustration purposes.

In Figure 1, sailors' positive deployment attitudes and sailors' ratings of individual commitment to the Navy are profiled based upon their point in the deployment cycle

at the time they completed their survey instrument. As shown in this figure, sailors reported the highest level of individual commitment to the Navy and the most positive attitudes concerning deployment when assigned to shore duty. In general, the least positive deployment attitudes and the lowest levels of commitment to the Navy were reported for sailors within 90 days of deployments during either the preor postdeployment periods.

Figure 2 shows the relationship of sailors' predeployment and deployment emotional distress levels to point in the deployment cycle. As shown in this Figure, sailors reported the greatest sensitivity to emotional distress when such ratings were made in the predeployment or postdeployment intervals, particularly in the latter time period. These findings would suggest that the stress related to close proximity to deployment served to sensitize respondents to issues of emotional distress.

Figures 3 and 4 present data related to spouses' ratings of deployment emotional distress and sailors' ratings of perceptions of family coping ability, degree of family conflict and children's lack of coping as a function of location in the deployment cycle. As shown in these figures, spouses' deployment related emotional distress levels were highest when reported during the reunion period following deployment, and sailors reported the greatest degree of concern regarding family and children functioning

within 90 days of deployment, particularly during reunion periods.

Figure 5 presents both sailors' and spouses' report of Life Stress Events as a function of their deployment cycle. Results of these analysis demonstrate that both sailors and spouses report more negatively stressful events for ratings made by families immediately prior to or following deployments. Among sailors, the most stressful life histories are reported during the pre- and postdeployment intervals. Among spouses, the placement in the reunion or the postdeployment interval is significantly related to an increased report of negative Life Stress Events. Item analyses of the Sarason measure indicated that these trends are accounted for by both an increased number of stress items on Life Stress Events endorsed by spouses and sailors during the 90 day periods preceding and following deployment, as well a tendency to endorse those event as more negatively stressful.

Finally, Figure 6 presents sailors' self reports of their level of job performance as a function of their location in the degloyment cycle. As shown in this figure, sailors report the highest level of self-reported job performance when on shore duty placements and reported the lowest levels of job performance during intervals immediately prior to or immediately following deployments.

Overall, the results of these figures serve to confirm that deployment is a major stressor for the majority of Navy

families and that this stress has a direct and significant impact on job performance, family functioning and perceptions of the stressfulness of other life events. Further, these findings serve to indicate that interventions designed to aid service personnel and families in effectively coping with deployment would be most likely to be effective during periods immediately prior to or immediately following actual deployments. This observation is based upon the fact that Navy families appear to be most sensitive to deployment related issues during these periods, with an increased degree of denial employed during shore duty placements. In particular, the data presented in these figures appear to indicate that the reunion period is markedly stressful and produces acute adjustment demands on families in terms of stress tolerance and adaptive coping.

## FINDINGS FROM MOOS FAMILY ENVIRONMENT SCALES

The five subscales of the Moos Family Environment measure were analyzed across a number of combinations of sailors' and spouses' responses. The results of profiling for selected comparisons are presented in Figures 7 and 8. As shown in Figure 7, a general pattern emerges from the current data which indicates Navy families appear to have unique family characteristics in relation to their civilian counterparts. First, Navy families appear to place greater emphasis on the direct and open expression of feelings and

emotions as reflected on values for the Expressiveness Scale. Secondly, both sailors and spouses within the Navy community appear to place greater emphasis on family cohesiveness and value activities designed to increase the sense of family "togetherness". There is also a marked degree of de-emphasis within Navy families on the direct expression of anger and conflict, to a degree which differs significantly from the emphasis placed on this dimension among civilian families. Specifically, Navy families appear to avoid open expression of conflict areas in relation to their civilian counterparts. Finally, Navy families place substantial value and emphasis on order and organization within the family structure accompanied by explicitness and clarity in family rules and responsibilities. This emphasis on organization, however, does not appear to be related to use of authoritarian or rigid family controls. Navy families, in fact, score lower than the mean for civilian families on the control dimension as defined by the Moos measure.

Overall, in comparing sailors' and spouses' responses on the Moos Family Environment Scales, it can be noted that sailors view family functioning differently from spouses on at least two dimensions: family cohesion, t(1054)=-2.88P<.01, and family expressiveness, t(1054)=-4.47, P<.01. As may be seen in Figure 7, spouses place substantially greater emphasis on family cohesiveness and on the open expression of feelings than do their sailor counterparts.

The right side of Figure 7 presents the Moos values for all sailors classified into the type commands of AIRFLANT, SUBLANT and SURFLANT. Figure 8 presents the Moos Family Environment Scale data for spouses and sailors by catagory of type command membership. Figures 9 and 10 present Moos data for spouses and sailors, collectively and separately, by officer and enlisted status. In general, results of Ttests indicated that both officer and officer spouses place greater emphasis on family cohesiveness and the avoidance of conflictual issues, and less emphasis on rigid family controls than their enlisted counterparts.

## RETENTION ATTITUDES

A number of analyses were undertaken to examine the degree to which survey responses might be utilized in the prediction sailors' reenlistment intentions and attitudes. Table 11 shows the frequency distribution on the survey single item "I intend to make the Navy my career" for sailors broken into the categories of single sailors, married sailors without children, and married sailors with children. As can be seen in this table, the 5 point Likert format for frequency of responses to this item was essentially trimodal in nature. Specifically, "strongly disagree", "not sure", and "strongly agree" received the predominant number of endorsements while the categories of "disagree" and "agree" received significantly fewer endorsements. Thus, the pattern revealed in this data

suggests that service personnel across all categories of marital and dependent classification tend to hold either strong opinions or are undecided regarding the issue of reenlistment intention. There are, however, very clear and significant effects for marital and dependent status on the frequencies of these distributions. Specifically, roughly 20% of single sailors agree or strongly agree that they intend to make the Navy their career, 38% of married sailors indicate positive career intentions, and fully 60% of married sailors with dependent children intend to make the Navy their career. It should be noted, however, that these variables also are confounded by the increased age and length of prior Naval service associated with sailors in these latter categories. Further, consistent with findings from Beach, Weinstein, and Beach (1984), the current distribution of endorsement patterns would suggest that the most profitable targets for interventions efforts designed to increase rates of reenlistment and retention would focus upon the 40% of sailors in each marital and dependent category who have not strongly made up their minds regarding the reenlistment issue.

In Tables 12 through 14, discriminant analyses were employed using subscale variables to predict to intentions to reenlist classified into the three categories of low intention, unsure, and high intention to reenlist. Table 12 indicates that for single sailors a linear combination of four variables achieved an overall correct classification

rate of nearly 70% to these three outcome classes. Specifically, single sailors who reported higher levels of individual commitment to the Navy, longer periods of prior service, higher self evaluations of job performance, and more positive deployment attitudes were most likely to indicate positive intentions regarding reenlistment. Table 13 indicates that among married sailors without dependent children, a linear combination of seven variables resulted in correct classification of roughly 76% of respondents into 3 outcome classes. Specifically, married sailors without dependent children who reported higher levels of commitment to the Navy, longer periods of time in the service, higher perceptions of family cohesiveness, more positive predeployment and deployment attitudes, and whose spouses reported lower levels of overall stress and lower perceptions of family conflict, were most likely to report positive reenlistment intentions. Finally, Table 14 indicates that a linear combination of eleven variables were able to correctly classify reenlistment intentions of married sailors with children with roughly 73% accuracy into the three outcome groups. Specifically, married sailors with children who reported higher levels of commitment to the Navy, longer prior service, less emotional distance from their spouse, less predeployment and postdeployment emotional distress, higher perceptions of family emotional expressiveness, greater degrees of the right stuff attitude, and more positive deployment attitudes, and whose spouses

reported less perception of family conflict, less postdeployment emotional distress, and a greater degree of family expressiveness, reported the most positive intentions regarding reenlistment.

## EDUCATIONAL BACKGROUND OF SERVICE PERSONNEL AND SPOUSES

In order to examine the potential effects of educational background on respondent's self-reports on the research survey, a series of analysis were undertaken. In all cases, educational backgrounds were grouped into one of two discrete categories, i.e., high school diploma or less and post high school education or training. Two MANOVAs were conducted to investigate the overall impact of educational background across survey scales. The results of these analyses indicated a significant educational main effect on survey scale responses for service personnel (F= 2.69, p<.01).

To examine the effects of sailors' educational background on individual survey scale values, a series of univariate ANOVAs were performed. As shown in Table 15, 8 out of the 18 scales showed significant main effects for educational level of service personnel on the survey responses of 1236 sailors. Specifically, the 513 sailors reporting post high school education also reported, in contrast to the 723 sailors who indicated a twelth grade or less educational background, the following features:

1) Higher individual commitment to the Navy.

- 2) Higher positive deployment attitudes.
- 3) More postive predeployment attitudes.
- 4) Less deployment emotional distress.
- 5) Higher perceptions of job performance.
- Better communication and less conflict in their families.
- 7) Less interpersonal distance from their children.
- 8) Greater family cohesiveness.

Significant educational effects were not found for scores related to history of life stress, family organization, or family coping levels.

As shown in Table 16, spouses' educational background showed a significant main effect on nine of the sixteen scales examined. Specifically, the 467 spouses reporting post high school education, in contrast to the 588 spouses with high school degrees or less, also reported:

- 1) Less emotional distress during the predeployment period
- 2) Less emotional distress during the deployment period.
- 3) Less emotional distress during reunion periods.
- 4) Higher levels of family coping ability.
- 5) Less interpersonal distance from their children.
- 6) Greater family cohesiveness.
- 7) Greater family emotional expressiveness.
- 8) Less family conflict.
- 9) Less rigid family control systems.

Significant educational effects were not found for spouses' ratings of history of life stress, marital distance, right stuff attitudes, predeployment or deployment attitudes, or perceptions of children's coping abilities.

Overall, these findings strongly underscore the importance of service personnels' and spouses' educational backgrounds in coping with deployment stress. This coping resource appears to exist independently of families' histories of life stress, and exerts a large impact on perceptions of deployment related phenomena as well as general family characteristics.

## Summary and Conclusions

We would like to suggest the following conclusions which we feel are supported by both the pilot study data and data generated from the main survey administration of this project. Many of these points were noted in a preliminary fashion based upon pilot survey findings, and we will take this opportunity to underscore these points based upon the much larger set of data subsequently acquired. These statements or conclusions may be summarized as follows:

> The deployment specific item pool and subscales created from this collection of items appear to function well in terms of both internal reliability and construct validity. The levels of internal reliability found for the majority
of these sub-scales are guite consistent with internal reliability figures for the Moos et al. scales and are substantially higher than internal reliability for such established instruments as the MMPI. Findings from both the pilot and main surveys conducted in this research, therefore, indicate that efforts were successful for creating a reliable instrument for the assessment of service personnel and spouses' responses to deployment related phenomena. Further, results of statistical analyses of our data indicate that the specifically constructed scales were of central importance in predicting to outcome criteria involving such classes of variables as job performance, indices of family functioning, and reenlistment intentions. It is strongly recommended that these deployment-specific subscales created in the current investigation be utilized in future research efforts in order to allow for the literature in this area to systematically build and expand in a coherent fashion. One of the major problems in the area of deployment research has been the lack of a standardized measure, thereby creating a situation in which different studies used different predictive and outcome measures,

making generalizations across studies extremely difficult.

- 2) Findings from both the pilot and main survey administration components of this investigation underscore the utility of attempting to understand Navy deployment phenomena based upon multidimensional conceptual models. Specifically, current findings suggest that the ways in which both individuals and families attempt to cope with deployment represents an interaction of their specific perceptions of deployment phenomena, their general coping ability as related to history of life stress, and the general characteristics of their family functioning. Subscales or measures of each of these broad domains consistently entered into the prediction of outcome variance across criteria.
- 3) Research findings strongly indicate that the understanding of Navy deployment responses for married personnel requires the inclusion of information derived not only from those personnel but also from their spouses. For example, spouses' perceptions of family organization and functioning served as a significant predictor of married sailors' ratings of their job performances. Stated

more simply, how married personnel viewed their ability to perform in the job situation was at least partly determined by how their spouses perceived their families' functioning. Many additional examples of this interaction between service personnel and spouses' perceptions may be taken from current findings. For example, married sailors' ratings of individual commitment to the Navy were in part determined by the spouses' perceptions of family coping ability, and sailors' ratings of individual commitment to the Navy served as a significant predictor of spouses' ratings of family coping. Overall, these consistent patterns of husband-wife overlap in the prediction to specific outcome criteria underscore the conclusion of Glickman (1985) that the work and family environments for Navy families are very overlapping and interactive in contrast to civilian populations. While much of the prior research in the area of Navy deployment has exclusively focused on responses of either sailor or spouse, future research in this area would benefit substantially from the development of research methodologies to include both components of the family units.

The overall family functioning patterns of Navy 4) families show relatively consistent patterns of differences from those reported from civilian families by Moos and his associates (Moos, Insel, and Humphrey, 1974). Specifically, Navy families appear to place greater emphasis on the direct and open expressions of feelings and emotions (Expressiveness) in contrast to civilian families. Further, Navy families are likely to place greater emphasis on family cohesiveness than civilian families, and it appears that part of this sense of cohesiveness may be achieved at the cost of avoidance of direct expression of conflictual issues or issues which are likely to generate the open expression of hostility and anger. Finally, Navy families place substantial value and emphasis on order and organization within the family structure as accomplished through the use of explicit and clear family rules and responsibilities. This emphasis does not, however, come at the cost of utilization of authoritarian or rigid family control mechanisms. In this latter regard, Navy families score lower than the mean for civilian families on the Moos measure of authoritarian or rigid control. The differences demonstrated on the Moos Scales between Navy and civilian families have a number of implications,

particularly for agencies who work with these families. Planners who design programs and interventions to enhance family coping and functioning should be sensitive to the special characteristics exhibited by Navy families. For example, interventions designed to enhance cohesiveness and closeness in the family will probably be met with more favorable attitudes than interventions designed to uncover and elicit open expressions of conflict.

5) Based on the results of this study, a number of characteristics can be identified, in checklist form, that way predispose Navy families to substantial difficulty in coping with deployment. (See Appendix D). This checklist, generated from multiple regressions findings, serves as a means of identifying families which may be at higher risk of having significant problems during deployment. It must be emphasized that the characteristics on the checklist should be cross-validated by future research in order to maximize the predictability and utility of the checklist.

Areas included in the checklist are as follows: a) Sailor's and/or spouses' perceptions of significant communication problems and conflict within the family.

b) A significant history of life stress events as perceived by sailors within a 12-month period prior to deployment.

c) Poor sailor morale or mission attitude during the predeployment period.

d) Substantial emotional distress during the predeployment or deployment intervals, as reported by sailors or spouses.

e) a sense of frustration and sailors' alienation from the Navy as manifested by decreased or marginal levis of commitment to the Navy.

Predeployment and postdeployment, defined as intervals of time encompassing 90 days immediately prior to or following return from deployments, appears to be of central importance in terms of intervention timing. The predeployment period appears to be particularly important in that events occurring within this window of time serve as the single best predictors of the degree of emotional distress that will be experienced during the actual deployment intervals. Specifically, the degree of predeployment emotional distress and the degree of poor predeployment attitudes which are manifested by both service personnel and their spouses are among the strongest £

predictors of problems in the actual deployment interval. Further, the reunion period, or postdeployment interval, was consistently shown to be a uniquely strassful period in terms of individuals' commitment to their jobs, perceptions of life stress, and perceptions of family functioning. Intervals more distant from actual deployment experiences appear to be related to the development of denial syndromes within Navy personnel and their families, resulting in a lowered sensitivity to issues related to deployment. This lowered sensitivity may be related to less accessibility for interventions designed to assist families in coping with deployment phenomena.

6) The surprisingly high completion rate for the main body survey administration (i.e., roughly 66%) may warrant specific comments. In the subjective impression of the investigation team, this level of survey responsiveness may be accounted for by a combination of the relevance of this topic to the thousands of the individuals who took the time necessary to complete the lengthy survey, as well as the ability of the research team to actively involve the Navy command structure in the facilitation of the research design. Many hours of effort were placed into developing meaningful liaisons with the Navy community, and in the careful selection of liaison officers, who in turn

manifested sufficient personal support for this project to insure the high completion rate. Thus, we might conclude that the issue of deployment and its impact on Navy personnel and their families appears to be a very salient one to the Navy community in a manner that cuts across rank, command structures, and the Navy sub-communities. Further, we might recommend to future research teams in this area that substantial time and effort. be placed on establishing the necessary individual levels of communication within the Navy command structure that will ultimately be rewarded with the fullest level of cooperation with research procedures. Finally, we might note that the use of a pilot survey administration greatly facilitated our ability to increase and improve our return rate during the main body of our survey. Based upon our pilot experiences, we were able to target problems in our survey administration procedure (e.g. confusing instructions) in a manner which allowed us to correct these issues before main survey administration.

In summary, it is clear that deployment is a stressful experience for sailors, both single and married, and for their families. The coping abilities of these individuals are largely determined by a complex rixture between

situational aspects, overall life stress, and the underlying foundations of family functioning. The identification and targeting of specific elements within each of these dimensions may provide a basis for a more intense and finely-tuned effort to assist those with problems to sustain themselves and grow through these stressful experiences.

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APPENDIX A

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# EASTERN VIRGINIA MEDICAL AUTHORITY

# NAVY DEPLOYMENT SURVEY



A RESEARCH PROJECT FUNDED BY THE OFFICE OF NAVAL RESEARCH AND CONDUCTED BY THE EASTERN VIRGINIA MEDICAL AUTHORITY

#### GENERAL INSTRUCTIONS

#### DON'T PANIC! NO one person will take more than half of this survey, and most will take less than half.

The purpose of this survey is to examine psychological and performance effects of deployments on Naval personnel and their families. Important characteristics of individuals and families at risk of developing problems will be identified, and suggestions will be made to the Department of the Navy towards reducing deployment-related stress.

Thank you for agreeing to participate in this survey. It is divided into sections, and is designed to be answered by single Naval personnel, married Naval personnel, their spouses, and Naval personnel with children. <u>Not everyone will answer all</u> <u>nuestions</u>, so please read all instructions carefully.

You should have been given a large manils envelops with your survey. When you have completed the survey, please put it into the envelope and seal the envelope. Since you will be returning the survey to a person in your command, this will make sure that <u>no one</u> in the Navy will read your answers. All information will be kept totally confidential, and all data will be reported back in group format. It will be <u>impossible</u> to pick out individual responses. Therefore, please answer as bonestly and completely as possible.

In order to begin the survey, please follow these instructions:

1) Read the instructions for each section <u>wery carefully</u>. Not everyone will complete each section, so read carefully to see whether you should answer the questions in that section.

2) Where it is indicated, write your answer in the space provided to the left of each question. Where there are circles to the left of the question, please darken in the appropriate circle completely.

3) Some questions give you a choice of five options. Please select the one that most closely fits your feelings or beliefs about that question. For example, look at the following:

I really enjoy watching sports events.

Your answer	choices are	as foll	0 <b>W</b> I	5:		
Strongly		Not			Strongly	
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4) If you have any questions or comments about this survey while you are taking it, please feel free to call the Office of Naval Deployment Studies at 446-5881. Any of our staff will be happy to help you.

Please understand that all of the responses on your survey are COMPLETELY CONFIDENTIAL, and will be seen only by the research team. No one in the US Navy will see any individual responses. In addition, some of the questions contain information of a personal nature. If you prefer not to answer all or any part of this survey, you are under no obligation to do so. All identifying data will be removed from each survey, and all surveys will be destroyed when no longer required by the research team. No individual will be identified in any way when reporting survey results.

THANK YOU FOR YOUR COOPERATION!

#### SECTION ONE

#### PART I (All Naval Personnel)

Please answer the following questions by filling in the appropriate choice or correct answer in the space provided.

 What	t	18	your	sex?
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2)	F		le	

\_\_\_\_2. What is your current age?

\_\_\_3. What is your current paygrade? (for uxample, E-4, 0-1, etc.)

4. How long have you been on active duty?

\_\_\_\_\_Years

\_5. What type of naval force are you currently a part of? 1) Naval Air Force (asbore or afloat) (AIRLANT)

- I) ABVAI AIF FORCE (ABBORG OF BIIORC) (AIRLA
- 2) Submarine Force (SUBLANT)
- 3) Afloat Force (not including naval air personnel) (SURFLANT)
- 4) Ashore Force (not including navel air personnel)

\_\_\_6. Which of the following choices best describes your current situation?

1) I am currently deployed and on ship.

2) I am currently deployed and NOT on ship.

- 3) I am currently on ship, or with a squadron but NOT deployed.
- 4) I am going to be deployed in less than 3 months.

5) It has been less than 3 months since returning from

deployment.

6) I all and will continue to be on shore duty.

- 7) Other
- \_\_\_\_7. In the previous 12 months, approximately how many days were you on emergency leave?

8. What is your ethnic background and, if married, your spouse's ethnic background?

- 1) White, not of Hispanic origin.
- 2) Black, not of Hispanic origin.

Bispanic or Latin: specify type (e.g., Puerto Rican, etc.)
 American Indian or Alaskan Native

- 4) American Indian or Alaskan Native 5) Pacific Islander (e.g., Filipino)
- 6) Asian
- 7) Other
- () Uther

8) Husband \_\_\_\_\_ 9) Wife \_\_\_\_\_

10.	Usually, how often do YOU attend church, and if married, does your apouse attend church? 1) Not at all 2) Rarely 3) Often, but not on a regular basis 4) At least once a week
	10) Husband 11) Wife
12.	Write in the last year of formal education YOU have completed and, if married, the last year YOUR SPOUSE has completed? Example: 12
	Grammar School       1       2       3       4       5       6       7       8         High School       9       10       11       12         College       13       14       15       16         Graduate School       17+
	12) Husband 13) Wife
<b>1</b> i	<ul> <li>Who is currently the main financial provider for your family?</li> <li>1) I am</li> <li>2) My spouse is</li> <li>3) My spouse and I are about equally</li> <li>4) Other</li> </ul>
1	<ul> <li>5. Is your family currently living on or off base?</li> <li>1) On base</li> <li>2) Off base</li> <li>3) Not applicable</li> </ul>
1(	5. Since beginning your Navy career, how many times have you been deployed for 30 days or more?
17	Since entering the Navy, what is the total number of years and months you have spent on deployment. Years Honths
1	<ul> <li>3. Who do you primarily rely on when you have a major personal or family problem?</li> <li>1) myself</li> <li>2) my supervisor (at work)</li> <li>3) relatives (including spouse)</li> <li>4) other Navy families or friends</li> <li>5) friends outside of the Navy</li> <li>6) Navy support and service programs</li> <li>7) civilian professional service agencies</li> <li>8) religious institutions</li> <li>9) other</li> </ul>
19	<ul> <li>Are you currently:         <ol> <li>married <u>for the first time</u></li> <li>married</li> <li>remarried</li> <li>remarried</li> <li>midowed and not remarried</li> <li>married</li> <limarried< li=""> <lim< td=""></lim<></limarried<></ol></li></ul>

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\_20. Have you over been divorced since coming on active duty? 1) no 3) 2 times 2) 1 time 4) 3 times or more \_21. To what extent do you feel that serving in the military contributed to your divorce? 1) not applicable, never divorced 2) not applicable, divorted before entering the service 3) to a great extent 4) to a small extent 5) not at all Please answer the questions from the following answer selection. Fill in the sppropriate circle to the left of each question. Definitely Hostly Mostly Neither Definitely Disagree Disagree Agree Nor Agree Agree Disagree 2 3 12345 0 0 0 0 22. A sailor's smotions and feelings should never get in the way of his/her job performance. 0 0 0 0 0 23. When this hitch is up, I'm getting out of the Navy. 0 0 0 0 0 24. My experiences on deployment cause we to want to leave the Navy. 0 0 0 0 0 25. I plan to make the Mavy my career. 0 0 0 0 26. Going on deployments helps a Navy career. 0 0 0 0 0 27. I care very much about my current job. 0 0 0 0 28. Deployments are the worst part of Navy life. 0 0 0 0 0 29. I make a special effort to get financial and legal matters straight before I deploy. 0 0 0 0 30. I am often irritable just before deployments. 0 0 0 0 31. I become easily upset as deployment draws nearer. 0 0 0 0 0 32. The thought of deployment depresses me. 0 0 0 0 33. I find myself tense, anxious, and nervous as deployment periods come closer. 0 0 0 0 34. The lack of privacy is stressful for me on deployment. 0 0 0 0 35. I find that I am sick more often than usual when I'm deployed.

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Listed below are a number of events which sometimes bring about changes in a person's life. IF YOU HAVE EXPERIENCED ONE OF THESE EVENTS IN THE PAST TWELVE MONTHS, put a check mark in the first column for that event. Then fill in the circle to the right of the check that best indicates the impact the event had on you. A rating of -3 shows a strassful, negative impact, while a rating of +3 shows a very positive impact. A rating of 0 indicates no impact at all for an event which happened to you.

\*\*<u>REMEMBER. ONLY CHECK AND BATE THE EVENTS THAT HAVE ACTUALLY</u> HAPPENED TO YOU IN THE PAST TWELVE MONTHS\*\*

-3	E	extremely negative	+1		alightly positive
-2	Ŧ	moderately negative	<b>4</b> 2	*	moderately positive
-1	8	somewhat negative			extremely positive
0	z	no impact			

Did it occur? If it occurred:

yes no -3 -2 -1 0 +1 +2 +3

51.	Harriage			0	O	0	0	0	0	C
52.	Detention in jail or comparable institution			0	0	0	0	0	0	0
53.	Death of spouse			0	0	0	Ø	0	0	0
54.	Major change in sleeping			0	0	0	0	0	0	0
55.	Death of close family member:			0	0	0	0	0	0	0
56.	Major change in eating habits			0	0	0	0	0	0	0
57.	Foreclosure on mortgage or loan	ļ		υ	0	0	0	0	0	0
58.	Death of a close friend			0	0	0	0	0	0	0
59.	Outstanding personal achievement			0	0	0	0	0	0	0
60.	Minor law violations (traffic tickets, disturbing the peace, etc.)			0	0	0	0	0	0	0
61.	<u>Male</u> :wife/girlfriend'a pregnancy			0	Ø	0	0	0	O	0
62.	Female: pregnancy		{	0	0	0	0	0	0	0
63.	Changed work mituation (differ- ent work responsibility, major change in working conditions, working hours, etc.)			0	0	0	0	0	0	0
64.	New job		ł	0	0	0	0	0	0	0

		748	No	-3	-2	- 1	0	+1	<b>42</b>	<del>+</del> 3
65.	Serious illness or injury of close family member			0	0	0	0	0	C	0
66.	Sexual difficulties			0	0	0	0	Û	0	0
67.	Trouble with employer (in danger of losing job)			0	0	0	0	Ö	0	0
68.	Trouble with in-laws			0	0	0	0	0	0	0
69.	Major change in financial statum (a lot better off or a lot worse off)			D	0	0	0	0	0	0
70.	Major change in closeness of family members (increased or decreased closeness)			0	0	0	0	0	0	0
71.	Gaining a new family member (through birth, adoption, family member moving in, etc.)			0	0	0	0	0	0	0
72.	Change of residence			0	0	0	0	0	0	0
73.	Narital separation from mate (due to conflict)			0	0	0	0	0	0	0
74.	Najor change in church activ- ities (increased or decreased attendance)			C	0	0	n	0	0	0
75.	Marital reconcilation with mate			0	0	D	0	0	0	0
76.	Major change in number of argu- ments with spouse (a lot more or a lot less arguments)			0	0	0	0	0	0	0
99 1 -	Married male: change in wife's work outside the home (starting work, ceasing work, obanging to a new job, etc.)			0	0	0	0	0	0	0
78.	Married female: change in husband's work. (loss of job, beginning new job, retirement, etc.)			0	0	0	0	Ŭ	0	D
79.	Major change in usual type and/ or abount of recreation			0	n Q		0	0	0	
80.	Borrowing more than \$10,000 (buying home, business, etc.)			0	) C	) C	0	0	0	0

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	Yes	No	- 3	-2	- 1	0	+1	÷2	+3
<pre>81. Borrowing less than \$10,000     (buying car, TV, getting     school loan, etc.)</pre>			0	o	0	0	0	0	0
82. Being fired from job			0	0	0	0	0	0	0
83. <u>Male</u> : Wife/girlfriend having abortion			0	Û	Ø	0	0	0	0
84. Female: baving abortion	ł		0	0	0	Ō	0	0	0
85. Major personal illness or injury			0	0	0	0	Ø	0	0
<pre>86. Major change in social activities, e.g., parties, movies, visiting, (increased or decreased participation)</pre>			D	0	0	Û	0	0	O
87, Divorce			0	0	0	0	0	0	0
88. Serious injury or illness of close friend			0	0	D	0	D	0	0
89. Retirement from work			0	0	0	0	0	0	0
90. Son or daughter leaving home (due to marriage, college,etc.)			0	0	0	0	0	0	0
91. Ending of formal schooling			0	D	0	0	0	0	0
92. Separation from spouse (due to work, travel, etc.)			0	0	0	0	0	0	0
93. Engagement			0	0	0	0	0	0	0
94. Breaking up with boyfriend/ girlfriend			0	0	V	0	0	0	0
95. Leaving bome for the first time			þ	0	0	0	0	0	0
96. Reconciliation with boyfriend girlfriend			þ	0	0	0	0	0	0
97. Deployment (longer than 30 days)			þ	0	0	0	0	0	0

# \*\*STOP-STOP-STOP\*\*

# You have finished the FIRST PART of the survey. READ THE FOLLOWING INSTRUCTIONS CAREFULLY!!

- 1: If you are currently married, go to the next page and continue to answer questions.
- 2: If you are NOT CURRENTLY MARRIED, but have children living with you in your household, go to page 18 and continue to answer questions.
- 3: If you are single, with no children, you have finished. Put your survey into the envelope provided and turn it in. Thank you for your help.

### PART II (Married Naval Personnel)

	rried, please complete t <u>currently</u> married to co	
98. Please indicate the	total length of your cu	rrent marriage.
Years		
	bow many months have yo etely separated because onths	
100. Did you marry your military service? 1) Yes 2) No	current spouse prior to	your entering
	ving questions from this circle to the left of t	
Definitely Mostl	y Neither Mostly	Definitely
Disagree Disagr	ee Agree Nor Agree Disagree	Agree
1 2	3 4	5
12345 000000101. It is im	portant to me to have an sufficient wife.	
0 0 0 0 0 102. I am gen	erally very satisfied wi	ith my marriage.
	and should maintain cont ecisions, even during pe	
	family finances when I' our finances when I'm de	
0 0 0 0 0 105. My spous family.	e and I equally share do	cision-making in our
0 0 0 0 0 106. My famil importan	y has a clear set of pert to us.	rsonal values that are
0 0 0 0 0 107. There is career.	a conflict between my i	family life and my naval
0 0 0 0 0 108. My famil	y is committed to my Nav	vy career.
0 0 0 0 0 109. In many	ways, it is a relief for	r my spouse when I deploy

Definitely Nostly Neither Mostly Definitely Disagree Disagree lgree Nor Agrae Agree Disagree 1 2 3 5 12345 0 0 0 0 110. Planning ahead makes deployments easier for families. 0 0 0 0 0 111. There are really no useful ways to prepare a family for their first deployment. 0 0 0 0 112. There are too many demands and pressures placed on me by my family immediately prior to deployment. 0 0 0 0 113. I am unable to spend adequate time with my family prior to deployment. 0 0 0 0 114. My apouse and I often fight just before I deploy. 0 0 0 0 115. As deployment comes closer, the conflict between family needs and the job is very frustrating. 0 0 0 0 116. I feel distant from my family before I deploy. 0 0 0 0 117. When I'm deployed, things I would normally do around the house just don't get done. 0 0 0 0 118. Deployment is often a velcome excape from the demands of the family. 0 0 0 0 0 119. When I'm deployed, my family suffers. 0 0 0 0 120. Deployment is a difficult experience for my family. 0 0 0 0 121. My family often does better when I'm deployed than when I'm home. 0 0 0 0 122. I believe that deployments have caused my family to have serious problems. 0 0 0 0 123. I do my job when deployed and I expect my family to do their jobs. 0 0 0 0 0 124. I believe my deployments have burt my marriage and family life. 0 0 0 0 0 125. I feel like my family does not adequately understand what deployment is really like. 0 0 0 0 126. My concentration on my job is decreased by family problems. 0 0 0 0 0 127. My job performance is not affected by concerns for my family while I'm deployed.

Definitely Mostly Neither Mostly Definitely Disagree Disagree Agree Nor Agree Agree Disagree 3 5 1 2 3 0 0 0 0 128. My spouse handles crises well while I'm gone on deployments. 0 0 0 0 129. When things are bad at home, it seems like I get into more trouble at work. 0 0 0 0 130. I have feelings of guilt about by family because I have to be gone so much. 0 0 0 0 131. Deployments cause my family to have more problems. 0 0 0 0 132. Overall, I feel that my family undergoes substantial emotional distress during my periods of deployment. 0 0 0 0 133. It is important for me to regain my authority at home as soon as possible when I get back from deployment. 0 0 0 0 134. My spouse and I often have fights when I first get back from deployment. 0 0 0 0 135. It is bard to settle back into family routines when I return from deployment. 0 0 0 0 136. My family finds it difficult to adjust to me when I return from deployment. Please answer this question by filling in the answer in the space provided. 137. Overall. I believe that my family's performance during my periods of deployments could be evaluated os follows: 1) Outstanding 2) Above average 3) Average 4) Below average 5) Very poor Please answer each of the following either true or false as you it generally applies to your family. Fill in the feel appropriate circle to the left of the question. TF 0 0 138. Family members really help and support each other. 0 0 139. Family members often keep their feelings to themselves. 0 0 140. We fight a lot in our family. 0.0 41. Activities in our family are pretty carefully planned.

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T F O O 142. Family members are rarely ordered around.
0 0 143. We often seem to be killing time at home.
0 0 144. We say anything we want to around home.
0 0 145. Family members rarely become openly angry.
0 0 146. We are generally neat and orderly.
0 0 147. There are very few rules to follow in our family.
0 0 148. We put a lot of energy into what we do at home.
0 0 149. It's hard to blow off steam at home without upsetting someone.
0 0 150. Family members sometimes get so angry they throw things.
0 0 151. It's often hard to find things when you need them in our household.
0 0 152. There is one family member who makes most of the decisions.
0 0 153. There is a feeling of togetherness in our family.
0 0 154. We tell each other about our personal problems.
0 0 155. Family members rarely ever lose their tempers.
0 0 156. Being on time is very important in our family.
0.0.157. There are set ways of doing things at home.
0 0 158. We rarely volunteer when something has to be done at home.
0 0 159. If we feel like doing something on the spur of the moment, we often just pick up and go.
0 0 160. Family members often criticize each other.
0.0.161. People change their minds often in our family.
0 0 162. There is a strong emphasis on following rules in our family.
0 0 163. Family members really back each other up.
<ul> <li>0 164. Someone usually gats upset if you complain in our family.</li> </ul>

T F 0 0		Family members sometimes hit each other.
0 0	166.	Family members make sure their rooms are meat.
00	167.	Everyone has an equal say in family decisions.
0 0	168.	There is very little group spirit in our family:
0 0	169.	Money and paying bills is openly talked about in our family.
0 0	170.	If there's a disagreement in our family, we try bard to smooth things over and keep the peace.
0 0	171.	Each person's duties are clearly defined in our family.
0 0	172.	We can do whatever we want to in our family.
0 0	173.	We really get along well with cach other,
0 0	174.	We are usually careful about what we say to each other.
	175. 176.	Family members often try to one-up or out-do each Mohey.is not bandled very carefully in our family.
0 0	177.	Rules are pretty inflexible in our household.
00	178.	There is plenty of time and attention for everyone in our family.
00	179.	There are a lot of spontaneous discussions in our family.
00	180.	In our family, we believe you don't ever get anywhere by raising your voice.
0 0	181.	Dishes are usually done immediately after eating.
00	182.	You can't get away with much in our family.

# \*\*STOP-STOP-STOP\*\*

Please read the following directions VERY CAREFULLY!

- 1: If you have children living with you in your household, go to the next page and continue to answer questions.
- 2: If you have NO children living with you, please turn to page 20. ASK YOUR SPOUSE TO COMPLETE THIS SECTION.

PART III (lavel Personnel with Dependent Children)

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# \*\*STOP-STOP-STOP\*\*

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 1. If you are currently married, go to the next section and ask YOUR SPOUSE to complete the following section.
- 2. If you are NOT CURRENTLY married, you have finished the survey. Please put your survey into the envelope provided and return it. Thank you for your cooperation.

# SECTION TWO

### THIS PART OF THE SURVEY IS TO BE COMPLETED BY SPOUSES ONLY.

#### SECTION II

#### Part I (Spouses of Naval Personnel)

This part of the survey is to be completed by spouses. Please ansver the following questions by filling in the appropriate choice or information in the spaces provided. \_\_\_195. What is your current age? \_\_\_196. Are you currently employed? Yes, Fulltime (40 hrs./wk.) 1) Yes, Part time (less than 40 hr./wk) 2) 3) No \_\_\_\_197. Who do you primerily rely on for help when you have a MAJOR personal or family problem? 1) Myself my supervisor (at work) 2) 3) relatives (including spouse) 4) other Navy families or friends 5) friends outside of the Navy 6) Navy support and service programs civilian professional service agencies 7) 8) religious institutions Please answer by filling in the appropriate circle to the left of each question. Definitely Nostly Neither Nostly Definitely Disagree Agree Nor Agree Disagree Agree Disagree 2 5 1234 5 0 0 0 0 198. I find it very hard to talk to anyone about my family problems. 0 0 0 0 199. I am generally very satisfied with my marriage. 0 0 0 0 0 200. Hy family has a clear set of personal values that are important to us. 0 0 0 0 0 201. I have never seen myself as a Navy spouse, but a spouse of an individual who is in the Navy. 0 0 0 0 202. I believe that what my spouse is doing in the Navy 1s important. 0 0 0 0 0 203. My spouse's Naval career is damaging our family. 0 0 0 0 204. Deployments are the worst part of Navy life. 0 0 0 0 205. When this hitch is up. I want my spouse to get out of the Navy.

21

Nostly Definitaly Neither Mostly Definitely Dissree Disagree Agree Nor Agree Agree Disagree 1 2 3 0 0 0 0 205. Deployments have caused me to want my spouse to leave the Navy. 0 0 0 0 207. I feel actively involved with the Navy Community. C O O O O 208. Overall, I am satisfied with the military As a way of life. 0 0 0 0 209. Predeployment briefings by the Navy are a help to families during deployment 0 0 0 0 0 210. Extensive preparation by my family prior to deployment reduces problems during the deployment. 0 0 0 0 211. I get very upset and tense as deployment comes closer. 0 0 0 0 0 212. Thoughts of deployment depress me. 0 0 0 0 213. When my spouse leaves it doesn't bother me. 0 0 0 0 0 214. I am more irritable around my apouse just before deployment. 0 0 0 0 0 215. I find myself becoming more emotionally distant with my spouse just before deployment. 0 0 0 0 0 216. I have trouble sleeping before my spouse leaves on deployment. 0 0 0 0 217. Money has been our major family problem during deployment. 0 0 0 0 0 218. Deployment places unfair burdens on the families of service personnel. 0 0 0 0 0 219. I expect deployments to have little impact on the overall quality of our family life. 0 0 0 0 0 220. A Navy spouse should be able to handle things competently during deployment. 0 0 0 0 0 221. Help and support from others is easily obtained during deployment. 0 0 0 0 222. I am relieved when my spouse is deployeu. 0 0 0 0 0 223. I resent the Navy when my spouse is deployed.

Hostly Weither Mostiv Definitely Definitely Disagree Disagree Agree Nor Agree Agree Disagree 1 12345 0 0 0 0 224. I don't feel good about myself during periods of deployment. 0 0 0 0 0 225. I have experienced a sense of guilt during deployments which has bothered me. 0 0 0 0 0 226. I dislike having to do jobs my spouse normally does, while he/she is deployed. 0 0 0 0 0 227. I feel tense and nervous when my spouse is gone on deployment. 0 0 0 0 0 228. I generally feel too depressed to go out on social events while my spouse is deployed. 0 0 0 0 229. I have felt a need for emotional counseling during deployments. 0 0 0 0 230. I am uncomfortable attending scoial affairs without my spouse. 0 0 0 0 231. In general, my health has suffered during deployment. 0 0 0 0 232. I have often leaned excessively on others to keep going from day to day during deployment. 0 0 0 0 233. I lose my temper more often when my spouse is deployed. 0 0 0 0 0 234. I don't get along as well with other people when my apouse is deployed. 0 0 0 0 0 235. Overall, I function better when my spouse is deployed. 0 0 0 0 0 236. I write at least once a week to my spouse when he/she is deployed. 0 0 0 0 237. I believe that deployments have caused my family to have serious problems. 0 0 0 0 0 238. Puring deployment I have had serious legal or psychistric 1 oblems which have necessitated an emergency leave for my spouse. 0 0 0 0 0 239. Overall, I feel that I experience substantial emotional distress during periods of deployment. 0 0 0 0 240. My spouse has usually changed a lot when he/she veturns from deployment
Definitely Mostly Neither Mostly Definitely Disagree Disagree Agree Nor Agree Agrae Disagree 2 3 1 2 3 4 5 0 0 0 0 0 241. My spouse and I sometimes have trouble talking about important personal things when he/she gets back from deployment. 0 0 0 0 0 242. When my spouse returns from deployment, it takes some time before we are comfortable with each other sexually. 0 0 0 0 243. My spouse and I tend to argue a lot when she/he gets back from deployment. 0 0 0 0 244. I don't like having to be accountable to my spouse for my time and activities when he/she gets back from deployment. 0 0 0 0 0 245. Family routines are disrupted when my spouse returns from deployment. 0 0 0 0 246. It is important that my spouse gives me some time to adjust when be/she returns from deployment. 0 0 0 0 247. I get angry with my spouse when he/she leaves me to go on deployment. 0 0 0 0 0 248. I find myself becoming easily frustrated during periods of deployment. 0 0 0 0 249. When my spouse is deployed I suffer from boredom and emptiness. 0 0 0 0 0 250. During periods of deployment I become overwhelmed when minor things go wrong. 0 0 0 0 0 251. In general, I feel like I am unable to cope with household responsibilities during deployment. For the next three questions, please write in the number of the answer that best applies to you in the space provided. \_\_\_252. Overall. I would indicate that the following best describes our family's experience with deployments. 1. During periods of deployments we have experienced serious problems and have had difficulty coping with them. 2. During periods of deployments we have experienced serious problems, but have successfully coped with them. 3. During periods of deployments we have experienced no serious problems and we have coped very well.

\_\_253. Overall, I would indicate that the following best describes our family's experience with deployments.

- 1. Our family tends to do poorly during deployment.
- Our family tends to do as well during periods of deployment as it does during periods when my spouse is home.
- 3. Our family tends to function better during periods of deployment when my spouse is separated from the family.

\_\_\_\_254. Overall, I believe that my family's performance during periods of deployments could be evaluated as follows:

- 1. Outstanding
- 2. Above average
- 3. Average
- 4. Below average
- 5. Very poor

### LIFE EVENTS SCALE

Listed below are a number of events which sometimes bring about changes in a person's life. IF YOU HAVE EXPERIENCED ONE OF THESE EVENTS IN THE PAST TWELVE MONTHS, put a check mark in the first column for that event. Then fill in the circle to the right of the check that best indicates the impact the event had on you. A rating of -3 shows a stressful, negative impact, while a rating of  $\Rightarrow$ 3 shows a very positive impact. A rating of 0 indicates no impact at all for an event that happened to you.

• REMEMBER. ONLY CHECK AND RATE THE EVENTS THAT HAVE ACTUALLY HAPPENED TO YOU IN THE PAST INELVE MONTHS.

-3	8	extremely negative	+1	alightly positive
-2		moderately negative	+2	moderately positive
-1		somewhat negative	+3	extremely positive
0		no impact		

Did it occur? If it occurred: yes no -3 -2 -1 0 +1 +2 +3

255. Marriage	0	0	0	0	0	0	0
<ul> <li>255. Marriage</li> <li>256. Detention in jail or comparable institution</li> <li>257. Death of spouse</li> <li>258. Major change in sleeping</li> <li>259. Death of close family member:</li> <li>260. Hajor change in eating habits</li> <li>261. Foreclosure on mortgage or loan</li> </ul>	0	Ô	0	0	D	0	0
257. Death of spouse	0	0	0	0	0	0	0
258. Major change in alsoping	0	0	0	0	0	0	0
259. Death of close family member:	0	0	D	0	0	0	0
260. Major change in eating habits	0	0	0	0	0	0	0
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262. Death of a close friend			0	0	0	0	0	0	0
263. Outstanding personal achievement			0	0	0	0	0	0	0
264. Minor law violations (traffic tickets, disturbing the peace, etc.)			0	0	0	0	0	0	0
265. <u>Male</u> :wife/girlfriend's pregnancy			0	0	0	0	0	0	0
266. Female: pregnancy			0	0	0	0	0	0	0
267. Changed work situation (differ- ent work responsibility, major change in working conditions, working hours, etc.)			O	0	0	0	0	0	0
268. New job			0	0	C	0	0	0	0
269. Serious illness or injury of close family member			0	0	0	Ø	0	0	O
270. Serval difficulties			0	0	0	0	0	0	0
271. Trouble with employer (in danger of loging job)			0	0	0	0	0	0	0
272. Trouble with in-laws			0	0	U	0	0	0	0
273. Major change in financial status (a lot better off or a lot worse off)			0	0	0	0	0	0	Û
274. Major change in closeness of family members (increased or decreased closeness)			Û	Ü	0	0	0	0	0
275. Gaining a new family member (through birth, adoption, family member moving in, atc.)			0	0	0	0	0	0	0
276. Change of reside ce			0	0	0	0	0	0	0
277. Marital separation from mate (due to conflict)			0	0	C	0	0	0	0
278. Major change in church activ- ities (increased or decreased attendance)			0	0	C	) ()	) 0	0	0
279. Marital reconcilation with mate			0	Ű	•	) (	0	0	0

	Yes bo	-3	-2	-1	0	+1	+2	+3
280. Major change in number of argu- ments with apouse (a lot more or a lot less arguments)		0	0	O	0	0	D	0
281. <u>Married male</u> ; change in wife's work outside the home (begining work, ceasing work, changing to a new job, etc.)		o	0	0	0.	0	0	0
282. <u>Married female</u> : change in husband's work. (loss of job, beginning new job, retirement, etc.)		0	0	0	D	0	0	0
283. Major change in usual type and/ or amount of recreation		0	0	0	0	0	0	0
284. Borrowing more than \$10,000 (buying home, business, etc.)		0	Ø	0	0	0	0	0
285. Borrowing less than \$10,000 (buying car, TV, getting school loan, atc.)		o	0	0	0	0	٥	0
286. Being fired from job		0	0	Ö	0	0	0	0
287. <u>Male</u> : Wife/girlfriend having abortion		0	0	0	0	0	0	0
288. Fersle: having abortion		0	0	0	0	0	0	0
289. Major personal illness or injury		0	0	0	0	0	0	0
290. Major charge in accial activities, e.g., parties, movies, visiting, (increased or decreased participation)		0	0	0	0	0	0	0
291. Divorce		0	0	0	0	0	0	0
292. Serious injury or illness of close friend		0	ð	0	0	0	0	0
293. Retirement from work		0	0	0	0	0	0	0
294. Son or daughter lea ing home (due to marriage, college,etc.)		0	0	0	0	0	0	0
295. Ending of formal schooling		0	0	0	0	0	0	0
296. Separation from spouse (due to work, travel, etc.)		0	0	C	) ()	0	0	0

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y		-3 -	2 -1	0	+1	+2	+3
297. Engagement		0	0 0	0	0	0	n
298. Breaking up with boyfriend/ girlfriend		0	0 0	0	0	0	a
299. Leaving home for the first time		0	0 0	0	0	0	0
300. Reconciliation with boyfriend girlfriend		0	0 0	0	0	0	0
301. Deployment (longer than 30 days)		0	0 <b>0</b>	0	0	0	0
Please answer each of the following a feel it generally applies to you appropriate circle to the left of the	r fax	aily.			<u>180</u> 11	<b>85</b> 11	
T F O O 302. Family members really belp a:	nd suj	oport	6 A C	b d	otb	sr.	
0 0 303. Family members often keep th	eir fe	elin	ga t	9	tbe	<b>B</b> ¥0)	lves.
0 0 304. We fight a lot in our family	•						
0 0 305. Activities in our family are	pret	ty ca	refu	11;	y p	lan	ned.
0 0 306. Family members are rarely or	dered	arou	nđ.				
0 0 307. We often seen to be killing	time (	nt ho	B¢.				
0 0 308. We say anything we want to a	round	hone	•				
0 0 309. Family members rarely become	open:	ly an	gry.				
0 0 310. We are generally neat and or	derly	•					
0 0 311. There are very few rules to	follo	w in	OHL	fa	mil	y .	
0 0 312. We put a lot of energy into	what w	ve do	at	bo	B¢.		
0 0 313. It's hard to blow off steam upsetting someone.	at ho	ne vi	thou	t			
0 0 314. Family members sometimes get things.	80 81	agry	they	t	hro	v	
0 0 315. It's often hard to find thin our household.	gs who	en yc	u ne	ed	tb	C III.	in
0 0 316. There is one family member w decisions.	ho mai	kes s	ost	01	th	•	
0 0 317. There is a feeling of togeth	ernes	<b>1</b> 1 1	our	fa	<b>mi</b> ]	7.	

TF	
0 0 318.	We tell each other about our personal problems.
0 0 319.	Family members rarely ever lose their tempers
0 0 320.	Being on time is very important in our family.
0 0 321.	There are set ways of doing things at home.
0 0 322.	We rarely volunteer when something has to be done at home.
0 0 323.	If we feel like doing something on the spur of the moment, we often just pick up and go.
0 0 324.	Family members often oriticize each other.
0 0 325.	People change their minds often in our family.
0 0 326.	There is a strong emphasis on following rules in our family.
0 0 327.	Family members really back each other up.
0 0 328.	Someone usually gets upset if you complain in our family.
0 0 329.	Family members sometimes hit each other.
0 0 330.	Family members make sure their rooms are neat.
0 0 331.	Everyone has an equal say in family decisions.
0 0 332.	There is very little group spirit in our family.
0 0 333.	Money and paying bills is openly talked about in our family.
0 0 334.	If there's a disagreement in our family, we try hard to smooth things over and keep the peace.
0 0 335.	Each person's duties are clearly defined in our family.
0 0 336.	We can do whatever we want to in our family.
0 0 337.	We really get along well with each other.
0 0 338.	We are usually careful about what we say to each other.
0 0 339.	Family members often try to one-up or out-do each other.
0 0 340.	Money is not handled very carefully in our family.

T F O O 341. Rules are pretty inflexible in our household.

- 0 0 342. There is plenty of time and attention for everyone in our family.
- 0 0 343. There are a lot of apontaneous discussions in our family.
- 0 0 344. In our family, we believe you don't ever get anywhere by raising your voice.
- 0 0 345. Dishes are usually done immediately after esting.

0 0 346. You can't get away with much in our family.

For each of the following service agencies or groups, place a check mark in the first column if you or your family HAVE UTILIZED the service. Please indicate your level of satisfaction with the service (-3 for very unsatisfactory to + 3 for very satisfactory). REMEMBER, ONLY CHECK THE SERVICES YOU HAVE USED. ONLY RATE SATISFACTION WITH SERVICES YOU HAVE USED.

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-3=very unsatisfactory -2=moderately unsatisfactory -1=slightly unsatisfactory D=no feelings	+1=sligh +2=moder +3=very :	stel;	y 8	ati	1 = 1	'act		
	Used?		1 ูบ			. 4	. 1	. 9
	yes no	-3· 1	- 2	- 1	U	+ 1	+2	+ 3
347. Family Support Centers		0	0	0	0	0	0	0
348. Individual Counseling		0	0	0	0	0	0	0
349. Harriage and Family Counseling		0	0	C	0	0	0	O
350. Chaplain Services/ Religious Services		ο	0	0	Û	0	0	0
351. Parent Education		0	0	0	0	0	0	0
352. Youth/Adolescent Prog.		0	0	0	0	0	0	0
353. Child Care Services		0	0	0	0	0	0	0
354. Financial Counseling		0	0	0	0	0	0	0
355. Single Parent Programs		0	0	0	0	Û	0	0
356. Premarital Programs		0	0	0	0	0	0	0

Ies N	lo -3	-2	-1	0	+1 4	- 2 -	• 3
357. Programs for Families with Handicapped Hembers	0	0	0	0	0	0	0
358. Services for Families during Separation	0	0	0	0	0	D	0
359. Crisis Referral Services	0	0	0	0	٥.	0	0
360. Spouse Employment Services	0	0	0	0	0	0	٥
361. Recreational Programs	0	0	0	0	0	0	0
362. Spouse/Child Abuse Services	0	0	0	0	0	0	0
363. Alcohol/Drug Treatment	0	0	0	0	0	0	0
364. Rape Counseling Services	0	0	0	0	· 0	0	0
365. Legul Assistance	0	0	0	0	0	0	0
366. Navy Wives Club	0	0	0	0	0	0	0
367. Navy Ombudsmen Program	0	Ð	0	0	0	٥	0
368. Navy Relief	0	0	0	0	0	0	0

### \*\*STOP-STOP-STOP\*\*

Please read the following directions VERY CAREFULLY!!

- 1: If you have children living with you in your household, go to the next page and continue to answer questions.
- 2: If you have NO children living with you, you have completed the survey. Please put this survey in the envelope provided and have your spouse return it. Thank you for your cooperation.

### SECTION II

### FART II (Spouse with Dependent Children)

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If you are the spouse of a navy personnel and have dependent children living with you in your household, please answer the following questions from this answer selection. Fill in the appropriate circle to the left of each question. **Definitely** Hostly Neither Mostly Definitely Disagree Disagree Agree Nor Agree Agroe Disagree 2 5 1234 5 0 0 0 0 0 369. My family has made sacrifices for my spouse's Naval career. 0 0 0 0 0 370. Our child/ren get into more trouble in school just before deployment. 0 0 0 0 0 371. Our child/ren get into more trouble at home just before deployment. 0 0 0 0 372. My child/ren get distant from us just before deployment. 0 0 0 0 373. During deployment I find it difficult to assume the total responsibility for my children's behavior. 0 0 0 0 0 374. I cope with my family's problems and needs very well while my spouse is deployed. 0 0 0 0 0 375. I can not adequately supervise our children during periods of deployment. When my spouse is deployed, it tends to be harder for 0 0 0 0 0 376. our obild/ren. Our child/ren have more problems whon my spouse is gone 0 0 0 0 0 377. on deployment. Our family does better when my spouse is deployed than 0 0 0 0 0 378. when he/she is home. We have had a lot of concerns regarding our child/ren 0 0 0 0 0 379. as a result of deployment. Our family problems generally go away when my spouse 0 0 0 0 0 380. comes home from deployment. When my spouse returns from deployment, there is usually 0 0 0 0 0 381, a period of confusion regarding responsibilities for directing the children.

Definitely Disagree	_	Neitber Agree Nor Disagree		Definitely Agree	
1	2	3	<b>A</b> ,	5	
1 2 3 4 5 0 0 0 0 0 382.		bard to ex s are peces		our child/ren wby	
0 0 0 0 0 383.	Our child/ spouse is		rmance in	school suffers when	a nay
00000384.		ren get ups is gone on		rvous more fraquent) t.	y when
00000385.	Our child/ spouse is	-	n of feel	ing bad more often w	when my
00000386.	Our obild/ spouse is		re withdr	awn and alone when i	ру
0 0 0 0 0 387.	Our child/ spouse is		ore irrite	ble and angry when a	ру
0 0 0 0 0 388.	Our child/ deployment		lot of pb	ysical complaints de	uring
0 0 0 0 0 389.	Our child/ spouse is		emic grade	s tend to drop when	≌:y
00000390.	One or m exhibiting	ore of my problems (	child/re which are	n are currently of serious concern	to me.
00000391.	One or mor which are	e of our el of concern	to us.	as bad legal diffic	ulties
0000392.	I have bee during dep		cerned abo	out my childran's be	havior
0 0 0 0 0 393.	I have bee during dep		i regardi:	g my child/ren's he	altb
0000394.		orried about at of my ch		ots of deployment o	n the
0000395.	My child/m house.	en look to	my spouse	to set the rules i	n our

STOP! You have finished the survey. Thank you! Please put the survey in the envelope provided and return it to your spouse.

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APPENDIX B Tables

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### TABLE ONE

### Return Rates for Survey by Type Command

Command Surveys Sent		Su: Re <sup>s</sup>	<pre>%Returned</pre>		
AIRLANT	1000	Sailor 637	Spouse (302)	63.7%	
SUBLANT	1000	760	(436)	76.0%	
SURFLANT	1000	597	(263)	59.7%	
Shore-based	425	219	(138)	51.5%	
Unlabeled		32	(16)		
Total	3245	2245	(1155)	65.6%	

### TABLE TWO

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# DEMOGRAPHIC DESCRIPTION OF SAMPLE

(total) )	2.82 2.88 2.58 2.58 0.78 0.048	11.18	ion
No response (\$total) 9 (0.5%)	Subjects 26 62 88 36 16 1	er 249	readerd Deviation
	Officer S 0-1 0-2 0-3 0-6 0-6	Total officer	
Females ( <b>t</b> total) 112 (4.98)		-	
Female: 112	cts 2.19 9.75 9.76.88 16.88 21.77 9.3 9.3 9.3 1.2	7 0.34 1 0.04 4 0.28 1981 88.93	
(\$total) (94.6%)	Subjects 9 46 218 376 528 486 208 21 21		
Males (8 2124 (	日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	W-2 W-3 W-4 Total Enlisted	
Sex	Rank	ħ	
ъу	А		
Sample by Sex	sample by		

Standard Deviation	6.493 years
18.297 times	6.711 years
Means	27.542 years
7.317 times	28.940 years
Range	18-57 years
0-90 times	17-54 years
Sample by # of Times Deployed	Sample by Age Sailors Spouses
'n	•1

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TABLE TWO (cont.)

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\$Total 51.9% 9.0% 4.8% 33.5% 0.7%	Standard Deviation 2.43 years 3.54 years
#Subjects 1165 203 203 107 752 752 16	Mean 12.93 years 12.94 years
Status Married (fårst) Remarried Widowed Divorced Single No answer	Range 9-18 years 9-19 years
Sample by Marital Status	Sample Educational level (years in school)
ç.	•

### TABLE THREE

### Reliability Coefficients and

### Scale Factor Loadings

Scale:	Alpha Coefficients	Factor* Loadings
Need for Marital Distance		
Sailor Spouse	.67 .60	.61 (3)
Attitude of "Right Stuff"		
Sailor Spouse	.36 06	.59 (1)
Individual Commitment to Nav	¥	
Sailor	. 71	.64 (1)
Positive Deployment Attitude	5	
Sailor Spouse	.60 .50	.66 (1) 65 (2)
Predeployment Attitudes		
Sailor Spouse	. 44 . 57	.56 (1)
Predeployment Emotional Dist	ress	
Sailor Spouse	- 87 - 73	67 (1) .63 (2)
Deployment Emotional Distres	5	
Sailor Spouse	.79 .90	77 (1) .85 (2)
Family Coping Levels		
Sailor Spouse	.86	.69 (1) 82 (2)
Job Performance Perceptions		
Sailor	.54	.64 (1)

ALC: NOT THE OWNER.

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Scale:	Alpha Coefficients	Factor* Loadings
Postdeployment Emotional Dist	tress	
Sailor Spouse	.83 .81	52 (1) .54 (2)
Family Communication/Conflict	t	
Sailor Spouse	.65 .71	71 (1) .58 (2)
Interpersonal Distance from Children		
Sailor Spouse	.72 .73	58 (1) .77 (2)
Children's Lack of Coping		
Sailor Spouse	.84 .90	57 (1) .76 (2)
Family Cohesion		
Sailor Spouse	.68 .73	
Family Expressiveness		
Sailor Spouse	.54 .57	
Family Conflict		
Sailor Spouse	.73 .73	.55 (3)
Family Organization		
Sailor Spouse	.67 .68	
Family Control		
Sailor Spouse	.57 .59	

\*Denotes scales loading on the factor with a weight > 0.50.

### TABLE FOUR

### Varimax Rotated Factor Matrix for All Survey Scales

### Factor 1 Label: Sailor's Positive Attitudes towards Deployment and Family

Percentage of Total Variance: 25.4%

Scales Loading >.50 or <50	Actual Values	Loading
Sailor's "Right Stuff" Attitudes		
Sailor's Individual Commitment to the Navy	0.640	
Sailor's Positive Deployment Attitudes	0.663	
Sailor's Predeployment Attitudes	0.559	
Sailor's Predeployment Emotional Distress	0674	
Sailor's Deployment Emotional Distress	-0.766	
Sailor's Perceptions of Family Coping	0.692	
Sailor's Ratings of Job Performance	0.641	
Sailor's Postdeployment Emotional Distress	-0.519	
Sailor's Perceptions of Family Communication and Conflict	-0.706	
Sailor's Perceptions of Inter- personal Distance from Children	-0.575	
Sailor's Perceptions of Children's	-0.567	

Lack of Coping

Factor 2 Label: Spouse's Negative Attitudes Towards Deployment and Fam: y
Percentage of Total Varian: : 8.5%
Scales Loading >.50 or <50 Actual Loading Values
Spouse's Positive Deployment -0.658 Attitude
Spouse's Predeployment 0.629 Emotional Distress
Spouse's Deployment 0.852 Emotional Distress
Spouse's Perceptions of -0.829 Family Coping
Spouse's Postdeployment 0.542 Emotional Distress
Spouse's Perceptions of 0.578 Family Communication and Conflict
Spouse's Perceptions of Inter- 0.770 personal Distance from Children
Spouse's Perceptions of Children's 0.762 Lack of Coping
<u>Factor 3</u> Label: Sailor's Perceptions of Marital Distance and Family Conflict
Percentage of Total Variance: 6.3%
Scales Loading >.50 or <50 Actual Loading Values
Sailor's Need for Marital Distance 0.614
Sailor's Perceptions of Overall 0.545 Family Conflict

### TABLE FIVE

### Varimax Rotated Factor Matrix for Spouse Survey Scales

<u>Factor 1</u> Label: Spouse's Negative Emotional Responses to Deployment and Concerns about Family Coping

Percentage of total variance: 30.5%

Scales Loading >.50 or <50	Actual Loading Values
Spouse's Positive Deployment Attitudes	-0.768
Spouse's Predeployment Emotional Distress	0.643
Spouse's Deployment Emotional Distress	0.889
Spouse's Perceptions Of Family Coping	0.841
Spouse's Perceptions of Family Communication and Conflic	0.721 t
Spouse's Perceptions of Inter- personal Distance from Children	0.762
Spouse's Perceptions of Children Lack of Coping	's 0.759
<u>Factor 2</u> Label: Spouse's Postdeploy and Perceptions of (	ment Emotional Distress Overall Family Conflict
Percentage of Total Variance	e: 10.1%
	tual Loading lues
Spouse's Postdeployment 0 Emotional Distress	.531
	F

Spouse's Perception of 0.533 Overall Conflict

### TABLE SIX

### Varimax Rotated Factor Matrix for Sailor Survey Scales

Factor 1 Label: Sailor's Positive Views of Deployment, the Job, and the Family Percentage of Total Variance: 32.0% Scales Loading >.50 or <-.50 Actual Loading Values Sailor's "Right Stuff" Attitude 0.591 Sailor's Individual Commitment 0.534 to the Navy Sailor's Positive Deployment 0.597 Attitude Sailor's Predeployment 0.573 Attitude Sailor's Predeployment Emotional -0.733 Distress Sailor's Deployment Emotional -0.774 Distress Sailor's Perceptions of 0.827 Family Coping Sailor's Rating of Job 0.559 Performance Sailor's Postdeployment -0.698 Emotional Distress Sailor's Perceptions of -0.797 Family Communication and Conflict Sailor's Perceptions of Inter--0.692personal Distance from Children Sailor's Perceptions of Children's -0.737 Lack of Coping

Factor 2 Label: Sailor's Need for Marital Distance

Percentage of Total Variance: 11.2%

Scales Loading >.50 or <.-50 Actual Loading Values

Sailor's Need for Marital Distance 0.641

	ses	Distress	Married Sailors with Children Married Sailors with Children 2. Job Performance Ratings 3. Sailor's Ratings of Family Coping 5. Sailor's Ratings of Family Coping 5. Sailor's Positive Deployment Attitudes 5. Sailor's Postdeployment Emotional Distre 6. Individual Commitment to the Navy 7. Sailor's "Right Stuff" Attitude 7. Sailor's "Right Stuff" Attitude 8. Sailor's Ratings of Family Cohesion (598 total variance)	Distress Married Spouses with Children Married Spouses with Children 1. Spouse's Ratings of Family Coping 2. Spouse's Predeployment Emotional Distance 3. Spouse's Positive Deployment Attitudes 5. Spouse's Positive Deployment Attitudes 5. Spouse's Predeployment Attitudes 5. Spouse's Predeployment Attitudes 5. Spouse's Predeployment Attitudes 6. Sailor's Reed for Marital Distance 6. Sailor's Need for Marital Distance 5. Sailor's Reed for Marital Distance 6. Sailor's Life Stress Levels 7. Communication and Conflict 7. Spouse's Predeptions of Family 7. Spous
TABLE NINE	Multiple Regression Analyses	Dependent Variable: Sailors' Deployment-related Emotional Distress	Predictor Variables: <u>Married Sailors</u> 1. Sailor's Predeployment Emotional Distress 2. Job Performance Ratings 3. Job Performance Ratings 5. Sailor's Ratings of Family Coping 6. Sailor's Postdeployment to the Navy 1. Individual Commitment to the Navy 5. Sailor's Postdeployment Emotional Distress 6. Sailor's Positive Deployment Attitude (56% total variance)	pependent Variable: Spouses' Deployment-related Emotional predictor Variables: <u>Married Spouses</u> <u>Married Spouses</u> <u>1</u> : Spouse's Ratings of Family Coping Spouse's Positive Deployment Attitudes Spouse's Positive Deployment Emotional Distress Spouse's Ratings of Family Cohesion and Conflict Spouse's Ratings of Family Communication and Conflict Findividual Commitment to the Navy Findividual Commitment to the Navy Spouse's Ratings of Family Communication and Conflict Spouse's Ratings of Family Communication and Conflict

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		TABLE SEVEN		
	Multipl	ple Regression Analyses		
Dependent Variable: Sailors' R	Ratings of	f Job Performance		
Predictor Variables:				
Single Sailors		Married Sailors	Married Sailors with Children	
<ol> <li>Individual Commitment to the Navy (80% total variance)</li> </ol>		Sailor's "Right Stuff" Attitude Sailor's Deployment Emotional Distress Sailor's Positive Deployment Attitude Spcuse's Perceptions of Family Organization (39% total variance)	<ol> <li>Sailor's Deployment Emotional Distress</li> <li>Sailor's Right Stuff"</li> <li>Sailor's Positive Deploy- ment Attitude</li> <li>Individual Commitment to the Navy</li> <li>Spouse's Perceptions of Family Organization</li> <li>(34% total variance)</li> </ol>	
Dependent Variabie: Individual	l Commitmen	ent to the Navy		
Predictor Variables:				
Single Sailors		Marsied Sailors	<u>Married Sailors with Childr</u> L	
i. Job Performance Ratings (80% total variance)		Spouse's Ratings of Family 1. Spouse's Ratings of Family 2. Sai Sailor's Positive Depioyment 2. Sai Mer Sailor's Ratings of Family 3. Sai Sailor's Ratings of Family 3. Sai Spouse's Deployment Emotional 4. Spouse's Deployment Emotional 5. Sai Distress Spouse's Postdeployment Emotional 5. Sai Spouse's Postdeployment Emotional Distress Spouse's Postdeployment Emotional (53% total variance) (53% total variance) Copy available to Distress Committed fully legible to Distress Copy available to Distress Spouse's Distress Spouse's Postdeployment Emotional 1. Spouse's Postdeployment Emotional 1. Spouse's Postdeployment (43% total variance) (53% total variance) (53% total variance) (53% total variance) Copy available to Distress Spouse's Distress Copy available to Distresy Copy available to Distress Copy available to Distress Copy	<ol> <li>Spouse's Ratings of Fami Communication and Confli Sailor's Positive Deploy ment Attitude 3. Sailor's Ratings of Fami Communication and Confli 4. Spouse's Ratings of Fami Communication and Confli 5. Sailor's Deployment Family Control 7. Job Performance Ratings 6. Sailor's Perceptions of Family Control 7. Job Performance Ratings 8. Sailor's Ratings of Family Expression (43% total variance)</li> </ol>	
	Contraction of the local division of the loc			

Multiple Regression Analyses	Regression Analyse	ģ
Dependent Variable: Sailors' Ratings of Family Coping	Бu	
<pre>Predictor Variables: <u>Married Sailors</u> 1. Sailor's Ratings of Family Communication and Conflict 2. Sailor's Predeployment Emotional Distress 3. Spouse's Ratings of Family Coping 4. Sailor's Reployment Emotional Distress 5. Sailor's Deployment Emotional Distress 6. Sailor's Levels of Life Stress 7. Individual Commitment to the Navy (65% total variance) Dependent Variable: Spouse's Ratings of Family Coping</pre>	на 19 19 19 19 19 19 19 19 19 19 19 19 19	Married Sailors with Children Sailor's Ratings of Family Communication and Conflict Spouse's Ratings of Family Coping Sailor's Deployment Emotional Distress Sailor's Predeployment Emotional Distress Sailor's Predeployment Attitudes (67% total variance)
<pre>Fredictor Variables: <u>Married Sailors</u> 1. Spouse's Deployment Emotional Distress 2. Sailor's Ratings of Family Coping 3. Spouse's Postdeployment Emotional Distress 4. Spouse's Predeployment Attitudes 5. Spouse's Predeployment Attitudes 6. Sailor's Positive Deployment Attitudes 7. Spouse's Life Stress Levels (68 total variance)</pre>		Married Spouses with Children Spouse's Deployment Emotional Distress Sailor's Ratings of Family Coping Spouse's Postdeployment Emotional Distress Spouse's Ratings of Family Cohesion Spouse's "Right Stuff" Attitudes Sailor's Predeployment Emotional Distress Sailor's "Right Stuff" Attitude Individual Commitment to the Navy (76, total variance)
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TABLE ELEVEN

Frequency Distribution

Intention To Make the Navy A Career

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	Strongly Disegree	Disagree	Not Sure	Agree	Strongly Agree	TOTAL
Single Sailors	263 24.54	106 12.42	217 25.3 <b>2</b>	87 9.62	10.42	857
Married Sailors with No Children	641 20.16	40 40 8.72	104 22.5%	57 12.32	118 25.52	462
Married Sailors with Children	132 14.72	56 6.23	178 19.82	129	405	006

TABLE TWELVE

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### Discriminant Function Analysis on Retention Attitudes

Dependant Variable:

Intent to Make the Navy a Career

Individual Commitment to the Navy Length of Time in Service Self-Reports of Job Performance Positive Deployment Attitudes

Discriminating Variables:

(Single Sailors)



Overall Correct Classification:

69.182



TABLE Fourteen

## Discriminant Function Analysis

On Retention Attitudes

Dependent Variable:

Intent to Make the Navy a Career

(Married Sallors with Children)

Discriminating Variables:

Individual Commitment to the Navy Length of Time in Service Spouse's Perceptions of Family Conflict Sailor's Need for Marital Distance Sailor's Predeployment Emotional Distress Spouse's Postdeployment Emotional Distress Spouse's Perception of Family Expressiveness Sailor's Perception of Family Expressiveness Sailor's Positive Deployment Attitudes Spouse's Positive Deployment Attitudes Spouse's Positive Deployment Attitudes



Overall Correct Classification:

73.2%

### TABLE FIFTEENSailors' Attitudes, Perceptions, and Beliefsby Education Level: Univariate ANOVAS

Scales	F Values	Significance
Individual Commitment to the Navy	16.1966	p<.0001
Positive Deployment Attitudes	17.3098	p<.0001
Predeployment Attitudes	9.6936	p<.002
Deployment Emotional Distress	28.5262	p<.0001
Ratings of Job Performance	21.7490	p<.0001
Interpersonal Distance from Children	4.3325	p<.05
Family Cohesiveness	9.5967	p<.01
Family Communication and Conflict	7.1033	p<.01

### TABLE SIXTEEN

### Spouses' Attitudes, Perceptions, and Beliefs by Education Level Univariate ANOVAs

Scales:	F Values	Significance
Predeployment Emotional Distress	8.2452	p<.005
Deployment Emotional Distress	12.8137	p<.005
Perceptions of Family Coping	7.5688	p<.01
Postdeployment Emotional Distress	10.3206	p<.001
Interpersonal Distance from Children	8.1198	p<.005
Family Cohesion	21.9131	p<.001
Family Expressiveness	10.4520	p<.001
Family Conflict	5.7261	p<.05
Family Control	19.5969	p<.005

### TABLE SEVENTEEN

Scales:	Item Membership:
Sailor's Need for Marital Distance	102, 109, 118, 121
Spouse's Need for Marital Distance	199, 213, 222, 235, 236,
Sailor's "Right Stuff" Attitude	22, 40, 123, 126, 129,
Spouse's "Right Stuff Attitude	198, 200, 220
Sailor's Individual Commitment to the Navy	23, 25, 27
Sailor's Positive Deployment Attitude	24, 26, 28
Spouse's Positive Deployment Attitude	204, 206, 224
Sailor's Predeployment Attitude	29, 110, 111, 113
Spouse's Predeployment Attitude	209, 210
Sailor's Predeployment Emotional Distress	30, 31, 32, 33, 114, 115, 116
Spouse's Predeployment Emotional Distress	211, 214, 215, 216
Sailor's Deployment Emotional Distress	34, 35, 41, 43, 44, 45, 46
Spouse's Deployment Emotional Distress	212, 223, 224, 225, 227, 228, 232, 231, 233, 234, 239, 247, 248, 249
Sailor's Perceptions of Family Coping	117, 119, 120, 122, 124, 128, 131, 132, 137
Spouse's Perceptions of Family Coping	217, 219, 226, 230, 229, 238, 237, 250, 251, 252, 253, 254, 373, 374, 375
Sailor's Perceptions of Job Performance	36, 37, 38, <b>39, 42, 4</b> 9, 50, 127
Sailor's Postdeployment Emotional Distress	<b>47, 48, 133, 134,</b> 135, 136

Scales: Item Membership: Spouse's Postdeployment Emotional 240, 241, 242, 243, Distress 244, 245, 246 Sailor's Perception of 101, 103, 104, 105, 106, Communication & Conflict in Family 107, 108, 125, 112, 130 Spouse's Perception of 201, 202, 203, 205, 207, Communication & Conflict in Family 208, 218, 369 Sailor's Perception of Inter-185, 188, 194 personal Distance From Children Spouse's Perception of Inter-372, 381, 382, 386, 395 personal Distance from Children Sailor's Perception of Children's 186, 187, 189, 190, 191, Lack of Coping 192, 193 370, 371, 376, 377, 378, 379, 380, 383, 384, 385 387, 388, 389, 390, 391 Spouse's Perception of Children's Lack of Coping 392, 393, 394 Sailor's Perception of Family 138, 143, 148, 153, 158, Cohesion 163, 168, 173, 178 Spouse's Perception of Family 302, 203, 312, 317, 322, Cohesion 332, 337, 342 Sailor's Perception of Family 139, 144, 149, 154, 159, Expression 164, 169, 174, 175 Spouse's Perception of Family 303, 308, 313, 318, 323, Expression 328, 333, 338, 343 Sailor's Perception of Family 140, 145, 150, 155, 160, Conflict 165, 170, 175, 180 Spouse's Perception of Family 304, 309, 314, 319, 324, 329, 334, 339, 344 Conflict Sailor's Perception of Family 141, 146, 151, 156, 161, 166, 171, 176, 181 Organization Spouse's Perception of Family 305, 310, 315, **32**0, 325, Organization 330, 335, 340, 345 Sailor's Perception of Family 142, 147, 152, 157,162, 167, 172, 177, 182 Control

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Spouse's Perception of Family Control	306, 311, 316, 321, 326, 331, 336, 341, 346
Sailor's Ratings of Life Stress	51, 52, 53, <b>54, 56, 5</b> 7, 58, 59, 60, <b>61, 62,</b> 63, 64, 65, 66, <b>67, 68</b> , 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97
Spouse's Ratings of Life Stress	255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301

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APPENDIX C

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Figures



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FIGURE ONE

## Deployment-Related Attitudes As A

Function of Location in the Deployment Cycle


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FIGURE TWO

Deployment-Related Attitudes

Scale Means

Shore Duty Sallor's Perceptions of Family Coping Deployment In 90 Days Returned From To Deploy In 90 Days Not Deployed On Ship, Location in the Deployment Cycle Deployment-Related Attitudes 30.5 30.0 29.0 29.5 28.5 28.0 26.0 27.5 27.0 26.5 PICURE THREE As A Function Of susaM stabl Shore Ducy Deployment-Related "wotional Distress (Spouse) Beployment In Deployment In 10 Deploy In Not Deployed Not Deployed 37.5 36.0 37.0 36.5. 35.5 39.0 38.0 29.4 38.54 40.0





### FIGURE SIX

## Deployment-Kelated Attitudes As A Function Of

Lucation in the Deployment Cycle

# Self-Reports of Job Performance



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FIGURE NINE

Family Environment Scale Scores by Pêrsonnel Rank





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FIGURE TEN

APPENDIX D

Checklists

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### The Eastern Virginia Medical School

Deployment Problems Checklist

This checklist is designed to identify the risk levels for you or your family to develop serious coping problems while you are on deployment. Check each statement as it describes your current situation.

yes	סת		
		1.	Do you or your spouse often hide problems from each other?
		2.	Do you or your spouse often refuse to discuss "Hot" family issues with each other?
		3.	Do you or your spouse often feel that you cannot talk freely and honestly with each other?
		4.	Do you or your spouse often fight or argue a lot, and nothing seems to get settled?
		5.	Over the past year, have you or your spouse been exposed to a major stressful situation?
		6.	Do you feel that the past year has been more than usually stressful for you and/or your family?
		7.	In the past 90 days, have you noticed a feeling of not caring about your job very much?
		8.	Have you and/or your spouse felt unusually depressed or unhappy within the past 90 days?
		9.	Have you and/or your spouse felt unusually emotionally upset within the past 9 <sup>r</sup> days?
		10.	Have your noticed your children to be unusually withdrawn, quiet, or distant from you within the past 90 days?
		11.	Have you noticed your children to be unusually aggressive or angry within the past 90 days?
		12.	Does the thought of going on deployment make you or your spouse unusually upset or disturbed?



13. Within the past 90 days, have you been feeling more and more like you would like to leave the Navy?

### Scoring Instructions:

Count the number of items for which you checked "Yes," and read the following score results.

- 0-3 You and/or your family will probably do well on this deployment. While deployments are stressful by themselves, your family will probably cope well while you are gone, and will deal with small crises appropriately.
- 4-6 You and/or your family is at moderate risk for developing some significant coping problems during the deployment period. Planning ahead for the deployment and building a strong circle of friends and helpers to call on will help your family cope more effectively. Your command and your local Navy Family Services Center can help you.
- 6-8 You and/or your family are at marked risk for developing problems in coping during the deployment period. We recommend that you consider contacting your local Navy Family Services Center, your command chaplain, or your local mental health services center in order to arrange for you and your family to receive help in learning to deal with the stresses of a deployment.
- More than 8: You and/or your family are at high risk for developing major problems in coping during the deployment period. It is important that you contact agencies or individuals which can help both you and your family. A helpful first step would be to talk with your command chaplain or physician about your feelings. Another approach would be to contact a local agency that specializes in helping people in your situation. A list of these agencies and their telephone numbers is attached.

Navy Family Services Center	<b>444-NAVY</b>
Champus Clinical Affairs Office	<b>640-27</b> 20
Portsmouth Naval Hospital	<b>398-</b> 5064

### Deployment Problems Checklist for Single Sailors

This checklist is designed to identify your risk levels for development problems in coping while you are on deployment. Check each statement as it describes your current situation.

yes no	
	<ol> <li>Do you often find it hard to talk about your problems with others?</li> </ol>
<b> + </b>	2. Do you find it hard to make and keep close friends?
	3. Do you fight a lot with your friends and acquaintances?
	4. Over the past year, have you experienced a stressfull major life event (e.g. divorce, death of a family member, serious financial loss)?
	5. Do you feel that the past year has been more than usually stressful for you?
	6. In the past 90 days, have you noticed a feeling of not caring very much about your job?
	<ol> <li>Have you felt unusually depressed or unhappy in the past 90 days?</li> </ol>
	8. Have you felt unusually emotionally upset within the past 90 days?
	9. Does the thought of going on deployment make you unusually upset or disturbed?
	10. Within the past 90 days, have you been feelin more like you would like to leave the Navy?

Scoring Instructions:

Count the number of items for which you checked "yes" and read the following score results:

0-2 You will probably do well on this deployment. While deployments are stressful by themselves, your coping mechanisms will generally help you to deal with daily life appropriately.

- 3-5 You are at moderate risk for developing significant problems in coping during the deployment period. Planning ahead for the deployment and building a strong circle of friends will help you function better. Your command chaplain and your local Navy Family Services Center can help you.
- 6-7 You are at marked risk of developing problems during the deployment period. We strongly recommend that you contact your local Navy Family Services Center, your command chaplain, or your local mental health services center in order to get help in learning how to deal with the stresses of deployment.
- More than 7 You are at high risk of developing major problems in coping during the deployment period. It is important that you contact agencies or individuals which can help you. A helpful first step would be to talk with your command chaplain or physician about your feelings. Another approach would be to contact a local agency that specializes in helping people in your situation. A list of these agencies and their telephone numbers follows:

Navy Family Serv:	444-NAVY	
Champus Clinical	Affairs Office	640-2720
Portsmouth Naval	Hospital	398-5064