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QUARTERLY TECHNICAL REPORT NO. 19,
OCTOBER 1, 1972 - DECEMBER 31, 1972

R. J. Rummel

Hawaii University

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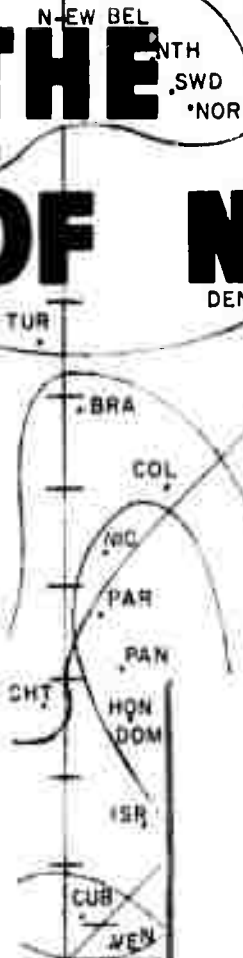
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177-915

THE DIMENSIONALITY OF NATIONS PROJECT

RESEARCH REPORT

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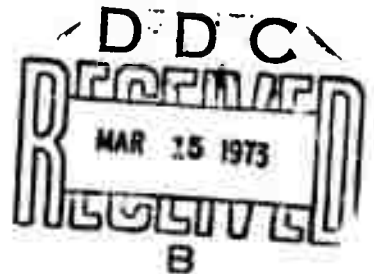
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13. ABSTRACT

During this quarter, factor analyses for both the Attribute space data and the Behavioral-space data were completed.

The principal investigator and Director of DON, Dr. R. J. Rummel, has completed two chapters of Forces of Man, Conflict and War, the volumes which will integrate the output of ten years of research performed by the DON Project.

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INTRODUCTION

This nineteenth quarterly report is divided into seven sections. The first describes the analyses initiated and completed during the quarter; the results of special significance are highlighted. Methodological problems faced during the analyses along with any computer programs that have been written or revised during the quarter are discussed in the second section. In this and the previous section, technical terms and discussions are avoided where possible. The third section describes the data collections begun and completed during the quarter. Current personnel, personnel commitments made and consultation are noted in the fourth section. Project activities are discussed in the fifth section and the sixth section covers project publications, research reports, and monographs in preparation and completed. The final section delineates changes in the DON budget, status of subcontracts, and expenditures to date.

I. ANALYSES

During this quarter, factor analyses for both the Attribute space data and the Behavioral space data were completed. Factor analyses were carried out separately for each of five years (1950, 1955, 1960, 1963, and 1965) and for a combination of all the years as one matrix (Super-P analyses).

Meanwhile, due to a recent development in field theory, it was decided that the data should be transformed (logarithm, base 10, to diminish the effect of extreme values), and that the common factor model (image factor analysis) should be used instead of the component factor model which was used for the current analyses.

The data transformation and reanalysis with the image factor model will be completed in the coming quarter.

II. METHODOLOGY AND COMPUTER PROGRAMS

To meet a new research necessity (see I), we are now modifying the existing MODULAR FACTOR ANALYSIS PACKAGE so that the program can handle both data transformation and image factor analyses.

The modification will be completed in the first part of the coming quarter, and the current program write-ups will be rewritten to include the modification.

III. DATA

During this quarter, all of the data for A- and B-space variables were collected, rechecked, punched, re-sorted, and listed. Both A- and B-space data will be published in research report form in the coming quarter.

Meanwhile during this quarter, data collection work has been concentrated on the "Asian Subsystem" data, which is a part of DON's phase III tasks. The work includes collection of data for about 40 behavioral variables for a total of 381 Asian dyads for five time points (1950, 1955, 1960, 1963 and 1965). As of December 31, 1972, approximately two-thirds of the job was completed.

IV. PERSONNEL

4.1 Project Director

During this quarter, the Principal Investigator and Director of DON, Dr. R. J. Rummel, has continued writing Forces of Man, Conflict and War, the volumes which will integrate the output of ten years of research performed by the DON Project.

The whole of the volumes will consist of six parts as follows: Part I Philosophy; Part II Man, Society, and Culture; Part III Conflict and War; Part IV Mathematical Structure and Operationalization; Part V Evidence, Influence, and Tests; and Part VI Pragmatics (Praxis).

During this quarter, the two chapters of Part I were completed:

Ch. 1 The Metaphysics of Social Fields

- 1.1 Man Versus Nature
- 1.2 Materialism Versus Idealism
- 1.3 Atomism-Mechanism Versus Organicism
- 1.4 Absolutism Versus Relationism

Ch. 2 The Field of Man

- 2.1 Perception
- 2.2 Manifestations and Their Latencies
- 2.3 Psychological Space
- 2.4 The Psychological Field
 - 2.4.1 Cognitive Dissonance
 - 2.4.2 Concepts
- 2.5 The Behavior Space of Man
 - 2.5.1 Dispositions
 - 2.5.2 Expectations
 - 2.5.3 Behavioral Balance and Trigger Events

4.2 Assistant Director

Dr. Sang-Woo Rhee, Assistant Director of DON, has mainly engaged in data and analyses jobs during this quarter. Dr. Rhee has rechecked all data and has supervised each step of the analyses performed.

Meanwhile, Dr. Rhee has completed a paper, "China's Cooperation, Conflict and Interaction Behavior; Viewed from Rummel's Field Theoretic Perspective," which is one part of a series of work designed to test various aspects of Rummel's field theory. The main theme of the current work is to test cross-time validity of Field Theory with China's behavioral data for a sixteen-year period (1950-1965). The work will be published in Advancing and Contending Approaches to the Analysis of Chinese Foreign Relations edited by Roger Dial.

4.3 Research Assistants

During this quarter, two research assistants have worked for the project: Edward Schwerin and George Omen. Mr. Schwerin worked on factor analysis of A-space data and Mr. Omen, who is currently the Project data archivist, mainly worked on data jobs.

Three graduate students, all majoring in International Relations, volunteered to work for DON: Chung-shi Ahn, Kook-chin Kim, and Sumie Ono.

4.4 Other Staff Members

During this quarter, Miss Karen Iao has worked for DON as Administrative Assistant, and Mrs. Grace Rummel, as Technical Editor.

Five student helpers, Miss Joyce Nakasone, Miss Valerie Nishida, Mr. Mark Jewel, Mrs. Bong-scuk Ahn, Miss Jocelyn Lee, and Miss Alma Watanabe have worked for DON mainly doing data jobs. Miss Nakasone, however, left DON in December for her study in Oregon.

V. DON ACTIVITIES

5.1 DON Staff Meetings

During this quarter, staff meetings were held only when necessity called for them. A meeting was called to discuss the results of factor analysis of A-space data, and two more to discuss the draft of Chapter 1 of Forces of Man, Conflict and War.

VI. PUBLICATIONS AND REPORTS

6.1 Books

Rummel, R. J. Dimensions of Nations. Beverly Hills: Sage Publications, 1972.

6.2 Reprints

Wall, Charles, and Alan C. H. Kam. "DYNA: Dynamic Storage Allocation in FORTRAN for the IBM/360 Operating System." Behavioral Science, Vol. 17, No. 5 (September 1972), 481-484.

6.3 Research Reports

Chadwick, Richard. "International Involvement: Steps Toward the Quantitative Measurement and Explanation of International Policies." DON Project Research Report No. 37, July 1972.

VII. BUDGET

7.1 Fiscal Status

Project expenditures are currently in line with the total available to the project beginning on September 1, 1972. We anticipate fully expending these funds by the end of August, 1973.

7.1.1 Amount Funded

The maximum amount available for reimbursement is \$871,846.00.

7.1.2 Estimate Expenditures and Commitments:

Total Expenditures to date (09-01-67 to 12-31-72): \$800,077.95

Total Estimated Expenditures (09-01-67 through 08-31-73)	\$871,846.00
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7.1.3 Estimate Funds Required: None.