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UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

COMPUTER PROGRAMS RELEASED AS U.S. GEOLOGICAL SURVEY OPEN-FILE REPORTS AS OF JULY 1982

by KURT DODD

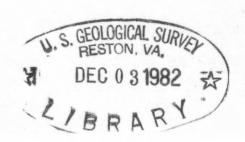
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INTRODUCTION

The following list is composed of citations of U.S. Geological Survey (USGS) open-filed computer programs, cataloged by year of release for reports issued through April 1974 and by Open-File Report number for reports issued after numbering began in May 1974. The citations are indexed by author, subject, and computer program name (acronym). In providing an indexed source of reference information on open-filed computer programs, the list opens an avenue of communication between computer program authors and users, eliminating the need for the personal contact networks heavily relied upon by USGS personnel searching for computer programs. Expected long-term benefits include more efficient use of computers, increased computer program documentation, and construction of computer programs in response to feedback from users.

The Open-File Report references were selected from three sources, depending on their release date. USGS reports and maps released in the Open Files between 1949 and 1974 are cited in a series of 25 USGS Circulars. Open-File Report citations are listed in the annual catalogs, PUBLICATIONS OF THE GEOLOGICAL SURVEY, beginning with the 1974 issue. The most recent Open-File Reports are cited in the monthly lists, NEW PUBLICATIONS OF THE GEOLOGICAL SURVEY. The USGS' records of Open-File Reports approved were used as a check against omissions and errors. In constructing the subject index, I consulted copies of those Open-File Reports whose titles were unclear or not descriptive.

Effort was made to include in the list all, but especially the most recent, Open-File Reports that contain computer programs. Other computer-related Open-File Reports, particularly those concerning data-base operations, have been omitted from this list. Most of the data-base materials are described in USGS Circular 817, SCIENTIFIC AND TECHNICAL, SPATIAL, AND BIBLIOGRAPHIC DATA BASES OF THE U.S. GEOLOGICAL SURVEY, 1979.

The Open-File Reports listed are available prepaid from the Open-File Services Section, Branch of Distribution, U.S. Geological Survey, Box 25425, Denver Federal Center, Denver, CO 80225 (Telephone: (303) 234-5888, FTS 234-5888). The price given in each Open-File Report citation is for a single paper copy as of October 1982.

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- 1965 COMPUTER SIMULATION PROGRAM FOR INVESTIGATION OF GEOCHEMICAL SAMPLING PROBLEMS, by R. N. Eicher and A. T. Miesch, 48 p., 12-p. appendix. \$10.25.
- 1967 A COMPUTER PROGRAM FOR PROCESSING ELECTRON MICROPROBE DATA, by M. H. Beeson, 10 p., 31-p. appendix. \$6.25.
- DEVELOPMENT OF COMPUTER PROGRAMS FOR ANALYSIS OF LUNAR GEO-PHYSICAL SURVEY DATA, by R. D. Regan and J. L. Herskovits, 24 p. \$3.75.
- 1969 COMPUTER CONTRIBUTION NUMBER 1, WEIGHTED TRIANGULATION ADJUSTMENT, by W. L. Anderson, 52 p. \$8.00.
- 1969 HYPOLAYR, A COMPUTER PROGRAM FOR DETERMINING HYPOCENTERS OF LOCAL EARTHQUAKES IN AN EARTH CONSISTING OF UNIFORM FLAT LAYERS OVER A HALFSPACE, by J. P. Eaton, 106 p., 49 p. of tables. \$21.50.
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- 1970 COMPUTER CONTRIBUTION NUMBER 3, NONCONSTANT VARIANCE REGRESSION ANALYSIS PROGRAM, by M. S. Hellmann, 106 p. \$16.50.
- 1970 COMPUTER CONTRIBUTION NUMBER 2, PERSPECTIVE CENTER DETERMINATION, by J. D. McLaurin, 41 p. \$6.25.
- 1970 A PROGRAM TO SIMULATE AN AQUIFER USING ALTERNATING DIRECTION IMPLICIT-ITERATIVE PROCEDURE, by Thomas Maddock, III, 73 p. \$11.25.
- 1971 LINEAR COMBINATION READING PROGRAM FOR CAPTURE GAMMA RAYS, by A. B. Tanner, 9 p. \$1.00.
- 1972 HYPO71 A COMPUTER PROGRAM FOR DETERMINING HYPOCENTER MAGNITUDE AND FIRST MOTION PATTERN OF LOCAL EARTHQUAKES, by W. H. K. Lee and J. C. Lahr, 100 p. \$15.25.
- 1972 A COMPUTER PROGRAM FOR CREATING KEYWORD INDEXES TO TEXTUAL DATA FILES, by D. W. Moody, 27 p. \$4.25.
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- 1974 MAGDEP A COMPUTER PROGRAM FOR FINDING DEPTH TO BASEMENT FROM TOTAL FIELD MAGNETIC PROFILES, by A. K. Cooper, 75 p. \$12.75.
- 1974 GEOPAC, by R. H. Godson, 146 p., 17 figs. \$19.75.
- 75-110 COMPUTER PROGRAM DESIGNED TO COMPUTE OIL SHALE THICKNESS (FT.), AVERAGE VALUE (GAL. PER TON), AND RESOURCE (BARRELS PER ACRE) FROM FISCHER ASSAY DATA, by George Van Trump, Jr., and J. K. Pitman, 18 p. \$2.75.

- 75-127 A PROGRAM FOR MASS SPECTROMETER CONTROL AND DATA PROCESSING ANALYSES IN ISOTOPE GEOLOGY WRITTEN IN BASIC FOR AN 8K NOVA 1120 COMPUTER, by J. S. Stacey and J. Hope, 48 p., 1 fig., 3 tables. \$6.50.
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- 75-159 A FORTRAN IV PROGRAM FOR ANALYTIC CONTINUATION OF VLF ELECTROMAGNETIC DATA, by R. D. Watts, 28 p., 7 figs. \$4.25.
- 75-311 **HYPO71** (REVISED): A COMPUTER PROGRAM FOR DETERMINING HYPOCENTER, MAGNITUDE, AND FIRST MOTION PATTERN OF LOCAL EARTHQUAKES, by W. H. K. Lee and J. C. Lahr, 59 p., 5 figs., 48 tables. \$17.25.
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