

COMPUTING FACILITY MONTHLY ACTIVITIES REPORT

JULY - 1975

Conferences

X3J3 Committee of the American National Standards Institute, of which Jeanne Adams is a member, met at NCAR 7 - 11 July.

Documentation

Consultant Bulletin #2 has been released.

Library

Alan Cline of NASA Langley Research Center visited the Computing Facility 12 - 19 July. Plans were made for his consultation on the evaluation and testing phase of the NCAR Software Support Library (NSSL) Testing Project.

Systems

The month of July was spent on the 819 disk software. During the last week of July, a new 7638 driver was tested. The success of this driver should enable us to operate one 819 channel and one 7638 channel during the 819 installation phase which will begin on or after August 22 and continue through October 17. Without the new 7638 driver, it would have been necessary to run with half the present disk capacity during the 819 conversion time.

A meeting was held at AMPLEX on July 17 - 18 to review the TMS-4 delivery schedule and to see if the delivery slip could be held to the 1st of January 1976. However, the 7600 channel interface unit (CIU) redesign effort will delay the completion of the CIU until mid-December 1975. AMPLEX also has to write or revise about 10,000 lines of code so that they can handle our requirement. They want a month to test the result of this software re-work on TMS-4 prior to shipment so that the revised AMPLEX shipping date is now January 31, 1976.

On the RJE area, the problems of receiving data from GSFC (TWERLE) took most of our time. The solution seems to be to retrain the two modems involved so that communication can proceed. The 2780 software was worked on intermittently and progress is slow.

Travel

A. Robertson attended a 3M Reader/Printer course in St. Paul, Minnesota 7 - 16 July.

Visitors

16 July - Directors of approximately nine NOAA Environmental Data Services visited NCAR for discussions with R. Jenne, F. Bretherton, and G. S. Patterson regarding data set acquisitions and Mass Storage Systems plans.

Visitors (continued)

23 July - Lennart Bengtsson of the European Centre for Medium Range Weather Forecasting (ECMWF) visited the Computing Facility for discussions concerning augmentation of the Computing Facility capabilities.

APPLICATIONS RECEIVED IN JULY 1975

<u>Scientist</u>	<u>Title</u>	<u>CRU Requested</u>
Phil McClure University of Texas at Dallas	Analysis of incoherent scatter data from Jicanarca, Peru	6,000 ¹
C. B. Chang Florida State University	Numerical simulation of African disturbance	18,000
Mariano Estoque University of Miami	Air mass modification storms of Lake Ontario	40,000
Reid A. Bryson Institute of Environmental Studies University of Wisconsin	Climatic variability and its impli- cations for agricultural planning	1,200
Donna Blake Florida State University	Annual and semi-annual oscillations in the stratosphere	3,000
Malakondayya Challa Florida State University	Dimensional hurricane by numerical methods	27,000
. E. Suomi University of Wisconsin	Tropical wind energy reference level experiment	18,000
Richard Pfeffer Florida State University	M-mode numerical simulation of vacil- lation in a rotating annulus	210,000 ¹
Robb Wolff Brandeis University	Finite difference solution of differ- ential equations	200
John E. Hart M.I.T.	Finite amplitude baroclinic instability	4,000
Gary E. Maciel Colorado State University	Quantum mechanical calculation of second-order properties	15,000
Alan J. Faller University of Maryland	Time interpolation of hemispheric NMC data	24,000
Joyce J. Kaufman Johns Hopkins University	Theoretical studies of atmospheric phenomena	78,000
Tsutomu Takahaski University of Hawaii	Thunderstorm electricity - Part I, Graupel cloud electricity	210,000

¹Extension to previously approved project

COMPUTER RESOURCES GRANTED DURING JULY

<u>Scientist</u>	<u>Title</u>	<u>CRU Approved</u>
C. B. Chang Florida State University	Numerical simulation of African disturbance	18,000
Reid A. Bryson Institute of Environmental Studies University of Wisconsin	Climatic variability and its implications for agricultural planning	1,200
Robb Wolff Brandeis University	Finite difference solution of differential equations	200
Marvin Galler University of Illinois	Instabilities near critical levels	5,000
Colin Depradine Florida State University	Large scale wave interactions in the tropics	18,000
Steven Langer Stanford University	X-ray scattering in solar flares	4,500
Jan R. Bohne University of Chicago	Dual doppler radar study of snowstorms	25,000
Robert G. Watts Tulane University	Finite element numerical solution of tornado dynamics	30,000
Benjamin Herman University of Arizona	Determination of the imaginary term of the refractive index of atmospheric aerosols	30,000
Donna Blake Florida State University	Annual and semi-annual oscillations in the stratosphere	3,000