

USE OF THE NRAO COMPUTER FACILITY

I INTRODUCTION

- A. HARDWARE/SOFTWARE PERSONNEL - FOR THE IBM COMPUTER
 - 1. SOFTWARE - TED MCKENNA AND BOB FROMM
 - 2. HARDWARE - WADE DAVIS (AND ALL COMPUTER OPERATORS)
 - 3. BURNS AND SPECIALIZED PROGRAMMERS
- B. CONTENT OF THIS LECTURE
 - 1. BASIC INFO ON HOW THE NRAO COMPUTER FUNCTIONS AND HOW TO USE IT.
 - 2. THE EXACT TOPICS AND DETAILS DEPEND UPON THE EXPERIENCE OF THIS GROUP AS A WHOLE SPECIFICALLY---
 - LANGUAGES ?
 - COMPUTERS ?
 - INTERACTIVE TERMINALS ?
- C. HARDWARE DESCRIPTION AND COMPUTER AVAILABILITY - WADE DAVIS
- D. SOFTWARE
 - 1. OPERATING SYSTEM (OS)
 - IBM'S LAST RELEASE FOR 360 MFT - 21.8F (WITH MANY NRAO MODIFICATIONS)
 - SMF (SYSTEM MANAGEMENT FACILITY) - COMPUTER USAGE
 - HASP V3.1 - CONTROLS UNIT RECORD I/O
 - 3705 EP V3.0 - FOR COMMUNICATIONS
 - MEMOREX R5.1C FOR THE 3330 MOD 11 DISK SUBSYSTEM
 - 2. SUPPORTIVE
 - COMPILERS (FORT H&G; PL/1 OPT; BAL)
 - CALCOMP PLOTTER SERVICES (IN TRANSITION)
 - IBM'S SORT/MERGE (SM01)
 - TEK GRAPHICS
 - OS UTILITIES (FOR MOVING DATA IN/OUT/AROUND THE SYSTEM)
 - PANDORA FOR OPERATING THE TERMINALS
 - VARIOUS STANDARD DATA REDUCTION PROGRAMS

II JOB CONTROL ON THE NRAO COMPUTER

- A. AUTOMATIC JOBS
 - 1. REQUIRE NO TAPES; TIME < 10 MIN; JOB CLASS Q/B/C/D/E/L
- B. SEMI-AUTOMATIC (OPERATOR INTERVENTION REQUIRED)
 - 1. REQUIRE TAPE(S); AND/OR TIME = OR > 10 MIN; JOB CLASS B/C/D/E/L
- C. SPECIAL JOBS - NORMALLY RUN AT NIGHT
 - 1. JOB CLASS F - TIME > 20 MIN - STD PARTITION
 - 2. JOB CLASS O - OVER 216K; 3 OR MORE TAPE DRIVES; SPECIAL DISK

III JOB SUBMITTAL - GENERAL INFO IN THE KEYPUNCH ROOM 116

- A. OS JCL REQUIREMENTS (CARDS OR CARD IMAGES VIA PANDORA)
 - 1. IDENTIFIED BY // IN COLUMNS 1&2
 - 2. TYPES - JOB, EXEC, DD AND JCL COMMENTS
- B. NRAO REQUIREMENTS

MEMBER NAME LECTURE

- 1. /*SETUP STATEMENTS WITH JOBS REQUIRING TAPES
- 2. HASP/SMF ACCOUNTING INFO ON JOBCARD (USERID, CODE)
- 3. DATASET NAMING CONVENTION -

IV DISK DATABASE USE AND MAINTENANCE - BOB FROMM

V. SAMPLE JOB ON PUNCHED CARDS - PROVIDES INFO ON WHOM TO CONTACT

VI PANDORA CONCEPTS - START/STOP LINE PROTOCOL

- A. DATASETS (PDS) AND WORKSPACES
 - 1. THE 'HELP' FACILITY FOR USE OF PANDORA AND GENERAL JCL
 - 2. TEXT EDITING FEATURES
 - COMMAND MODE (VERB PLUS OPERANDS IF REQUIRED)
 - TEXT MODE (ENTERING OR CHANGING LINES/CHARACTERS)