

7 October 1975

MEMO TO: Cliff Murino

VIA: Bob Serafin *Bob*
FROM: Walt Records *Walt Records*

SUBJECT: Monthly Activities Report (September 1975)

I. SYSTEMS DEVELOPMENT

A. Construction of the CP-4 radar system continued with initial check-out scheduled for 31 October 1975. Non scheduled interruptions, such as an additional week of Grover radar operations in August for NHRE, a site survey to Tacoma and surplus radar inspection for NHRE in September, contributed to the slip in schedule.

All power wiring on the front deck, including rotary regulator, main switching voltage regulation and fusing are complete. Power is now available for van heating and air conditioning system and they can be checked out by servicing personnel. Cabinet and console inter-wiring was started and should be completed in one month. Installation of the klystron, focus coil and power supply will be completed in October.

There have been serious delays in delivery of components to complete the CP-4 Doppler processor and display system. It will be difficult to have this system ready for the University of Chicago before year's end. We are looking into alternate methods for meeting this requirement. X

B. Development of PAM sensors continues but has been hampered by the departure of one technician to Gerry Gram's group. A replacement will be hired soon.

C. Significant progress was made by Don Morris in developing software for processing CP-3 data for the University of Washington. The majority of the Washington work is expected to be completed by the end of October. A strong continuous effort will be required over an extended period in order to develop a truly comprehensive radar processing capability. Recent stated needs by NHRE and SESAME reinforce the plea to proceed rapidly to develop off-line processing capability.

A meeting was held at Boulder with Dr. Hobbs, University of Washington to review NCAR efforts concerning processing data taken last winter and to plan for the forthcoming winter 75-76 field program.

II. SUPPORT

A. The CP-3 radar and Doppler processor systems returned from southern Florida after supporting Professor Lhermitte, University of Miami, in his convective storm observations. This radar will be cleaned, repaired, and calibrated in anticipation of its December 1975 deployment to Tacoma in support of Professor Hobbs, University of Washington.

B. Al Morris and Bob McBeth were at Haswell, Colorado, from 12 through 24 September providing support to the joint NCAR-NOAA boundary layer experiment. They operated the GMD-IA rawinsonde and boundary layer profile systems. Data quality is expected to be good.

C. Surface mesonet stations lent to CSU and the University of Miami were returned and reconditioning efforts will start soon.

D. A loan of boundary layer profiling equipment to the University of Washington was cancelled when the AIDJEX ice island runway started to break up.

E. Al Sorenson, FOF, and George Saum, RSF, made an on-site inspection of an AN/FPS-26 Height Finding Radar which has potential use by NHRE.

F. Dr. Robert Perret, a visitor from Florida State University, ended his ninety-day visitorship to FOF on 12 September. His visit aided FOF in the Florida Doppler radar operations during August. He also conducted an initial investigation to determine if the PAM could accept atmospheric electricity sensors. He expects to continue this activity this coming winter by borrowing a remote PAM station, interfacing his instruments to it.

G. Bill Bragg went to New Orleans to screen excess government diesel driven generators required by NHRE.

H. Serafin attended many of the NHRE Symposium and workshop sessions at Estes Park during the week 22-27 September.

III. OTHER ACTIVITIES

FOF Management devoted a large effort to preparing its standup Multi-Year Program Plan to NCAR Management and preparing for the FOF Advisory Panel meeting of 2-3 October.

C. Murino

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IV. OUTLOOK

The major thrust for the next three months will be to complete construction of the CP-4 and start operations of the CP-3 radar at Tacoma.

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