

FEB 13 1976
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(Jickler)

12 February 1976

MEMO TO: Cliff Murino

FROM: Walt Records

SUBJECT: Monthly Activities Report (January 1976)

I. SYSTEMS DEVELOPMENT

A. The CP-4 radar was completed and sent to Gary, Indiana. There appears to be a minor calibration problem which is being resolved at the field site.

The second Doppler processor (CP-4) gave very big problems at Gary, Indiana, therefore contingency plans were made to send the CP-3 processor from Tacoma to Gary via air freight when the University of Washington program is terminated. Work on the CP-4 processor will continue when the system returns to Boulder in March.

B. An employment offer was made to fill the Instrumentation Engineer opening created by Dave Call's resignation.

C. PAM development work supported by FOF continued in RSF.

II. SUPPORT

A. The CP-3 radar spent the entire month at Tacoma in support of Hobbs, University of Washington. Field progress reports indicate the equipment functioned well. Most of the crew were ill with bad colds for about two weeks.

B. The CP-4 radar was deployed to Gary, Indiana and became operational on 23 January. Problems with the Doppler processor were not completely resolved. Some operating problems developed with on-site power generation because of below zero temperatures. These were resolved. System calibration shows a consistently low antenna gain and Boyajian is studying this problem.

Between the winter programs and the forthcoming summer work, both the CP-3 and CP-4 radars will be operated in a side-by-side mode when intercomparison calibrations will be performed.

C. Work has started in several areas to get equipment ready for summer programs, especially NHRE.

D. The lidar data acquisition system was operated by Frush to gather Doppler spectral data in conjunction with the CP-3 radar with the antenna pointing vertically. Several good sequences were obtained. *AT TACOMA*

The data system returned late in the month and special lidar observations were made for Cadle at Boulder.

E. The tethered balloon profiler was deployed to an ice island in the Beaufort Sea north of Alaska in support of AIDJEX.

III. OUTLOOK

A. The CP-3 radar will return early in February and general maintenance will be done during February and March on electrical and mechanical items.

B. Negotiations are taking place to determine how much work FOF can do for the CP-2 radar system at Grover before summer activities begin.

C. The CP-4 Doppler radar will be at Gary, Indiana the whole month of February supporting the University of Chicago.

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