

19870924HI-CLDPH/

E.3 Cloud Physics Scientist (On-board)

SEP 24 1987

The on-board Cloud Physics Scientist (CPS) is responsible for cloud physics data collection on his/her assigned aircraft. Detailed operational procedures are contained in the cloud physics kit supplied for each aircraft. General procedures follow. (Check off and initial.)

E.3.1 Preflight

- MMD 1. Determine status of cloud physics instrumentation systems and report to the on-board Lead Project Scientist (LPS).
- MMD 2. Confirm mission and pattern selection from the on-board LPS.
- MMD 3. Select mode of instrument operation as determined by the HRD/CPS.
- MMD 4. Complete appropriate instrumentation preflight checklists as supplied in the cloud physics operator's kit.

E.3.2 In-Flight

- ✓ 1. Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS unless superseded by directions from the on-board LPS.

E.3.3 Postflight

- ✓ 1. Complete summary checklist forms and all other appropriate forms.
- ✓ 2. Brief the on-board LPS on equipment status and turn in completed check sheets to the LPS.
3. Take cloud physics data tapes and other data forms and turn these data sets in to the OAO/Flight Director, who will arrange delivery as follows:
 - a. Outside of Miami - to the HRD operations center (FGOC).
 - b. In Miami - to OAO/Science and Program Division. [Note: all data removed from the aircraft by HRD personnel should be cleared with the OAO/Flight Director.]
4. Debrief as necessary at the appropriate operations center (i.e., FGOC or MGOC).
5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

14943-1445 P078P1

Cloud Physics Project Scientist Operational Checklist

Date 24 Sept. 1987 Aircraft 42RF Flight ID 870924H

A. INSTRUMENT STATUS AND PERFORMANCE

System	Preflight	Inflight	Downtime	# of Tapes
Johnson-Williams	✓	✓		
PMS probes	①	✓		
2D-P	✓	✓		4
2D-C	✓	✓		
FSSP	✓	✓		
Data Sys	✓	✓		
Displays	✓	✓		
Formvar				
Nimbiometer				
CO ₂ Radiometer				

B. REMARKS

① A. GOLDSTIEN REPORTS ONE DIODE WORKS INTERMITTANTLY. MAY LEAVE
HORIZ. STREAKS ON IMAGES.

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FLIGHT 870924H1

OPERATOR GAMACHE/DORST

2-D Knollenberg Data Tape Log

MAX RATE
FSSP RANGE 1

Tape #	EOF #	Time On	Time Off	Comments
1	1	195858	200015	TEST TAPE FROM SAN JUAN
2	1	252130	252750	
3	1	252750	253218	TAPE RAW OUT DURING CONDITION ONE
4	1	254830	255330	OUTBOUND FROM EYE

① TAPE TESTS OK, NOT SAVED.

DATE 24 Sept. 1987 FLIGHT

870924H1

OPERATOR GAMACHE/DOS7

42RIF

Formvar Log

[illegible]