

AUG 5 1989

E.3 Cloud Physics Scientist (On-Board)

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

- ☒ 1. Determine status of cloud physics instrumentation systems and report to the on-board lead project scientist (LPS).
- ☒ 2. Confirm mission and pattern selection from the on-board LPS.
- ☒ 3. Select mode of instrument operation as determined by the HRD/CPS.
- ☒ 4. Complete appropriate instrumentation preflight check lists 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 Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS, unless superseded by directions from the on-board LPS.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 check list 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.

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Cloud Physics Project Scientist Operational Check List

Date 5 Aug. 1989 Aircraft N43R1- Flight ID 89080511

A. Instrument Status and Performance:

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson-Williams				
PMS probes:				
2D-P		OK Clear Air		} 14 tapes
2D-C		OK Update		
FSSP				
Data System				
Displays				
Formvar				
Nimbiometer				
CO ₂ Radiometer				

B. Remarks:

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2-D Knollenberg Data Tape Log

Date 5 Aug. 1989 Flight 890805 I1 Operator GAMACHE

Tape #	EOF #	Time On	Time Off	Comments
1	1	1438	1510 ?	1-s data valid
2	1	1510 ?	1544	" " "
3	1	1617 1544		" " "
4	1	1617		" " "
5	1	1651		" " "
6	1	1723		2 sec valid at 1724
7	1	174722		max at 174330
8	1	175245		
9	1	1758??		
10	1	180330		
11	1	1808??		
12	1	181420		181940 Back to 2 sec
13	1	1825		
14	1	1925	2000	
15	1	2000		

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