# 19940820I1\_CLDPHY

#### 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.
- 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 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 as follows:
  - a. Outside of Miami to the HRD operations center (FGOC).
  - b. In Miami to AOML/HRD. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC 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.

details in log book Form E-3

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## **Cloud Physics Project Scientist Operational Check List**

Date 8/20/94

Aircraft \_\_\_\_\_\_\_\_N43RF

Munst 11052 spr 1-1

Flight ID 9408201

A. Instrument Status and Performance:

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson-Williams				
PMS probes:				
2D-P				
2D-C				
FSSP				
Data System				
Recorder			and the second	
Formvar				
DRI Charge Probe				
DRI Field Mills				
King Probe				

Actail in log book Remarks: Β.

Very mony Precup proble. Precup frequently stopped upctating, cloud only sometimes. Multiple restart. I tape

Form E-3 Page 3 of 3

Formvar Log

Date	Flight			_ Operator	
Roll #	Time On	Time Off	Frame Count at Start	Comments	
•	2.94.24				
	an dana				

Form E-3 Page 2 of 3

2-D Knollenberg Data Tape Log

ate			_ Operator	
EOF #	Time On	Time Off	Comments	
			2	
	No. Contraction			
			4	
	Maria Maria	and a second		
	1	7.0		
	EOF #	EOF # Time On	EOF #  Time On  Time Off	

9:4082	120I Abercon	
17:23:00	D Take-off	
17:27	Turm on equipment	
17:30	Began recording	
19:35	Recording begins again. Untrown of poklams are solved. Entering area	A storm
	unter. Radar sohas weak and almost all TD M.	
15742	Preup topped recording. Reptating Intermittent after acid	
19:46	Closest to center, in clear. Instations of both becomes intermitiant	
20:07	Just To ty to postare	
20:09	seg in recording. Only lord working, and intermation.	
20:42	Erdofleg. Jun left.	
21:30	Sura for indound lig	
22:17	Pair SW of center. Reglecturity > 40d B2 Sof center.	
23:16	Turm & upwind leg	
23:53	Sur no for incound teg	
00:20	Surmed off and such by Proder in clear area (did not ask for this)	
00:21	Resumed	
00:33	Stopped recording inconcretion. Restarted in clear.	
01:00	Parend claser (1) To center.	
02:28	Surmed Sf rounder	

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