

# 19900828H1-CLDPHY

## E.3 Cloud Physics Scientist (On-Board)

AUG 28 1990

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.

Cloud Physics Project Scientist Operational Check List

Date AUG 28 1990 Aircraft 42 RI Flight ID 900828H

A. Instrument Status and Performance:

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson-Williams	✓	✓		
PMS probes:				13
2D-P	N/A	N/A		
2D-C	✓	✓		
FSSP	✓	✓		
Data System	✓	✓		
Recorder	only 1	✓		
Formvar	N/A			
DRI Charge Probe	N/A			
DRI Field Mills	UP & DOWN OK	OK		
King Probe	N/A			

B. Remarks:

PMS system time = A/C TIME + 2 sec.

Much electronic noise in all video displays  
this station



### Formvar Log

Date \_\_\_\_\_ Flight \_\_\_\_\_ Operator \_\_\_\_\_

[illegible]

2-D Knollenberg Data Tape Log

Date AUG 28 1990 Flight 900828H Operator R.A. BLACK

Tape #	EOF #	Time On	Time Off	Comments
1		181830	182425	IP + circling light precip
2		184014	184706	start in E eyewall
3	1	184926	185946	T=+9 EOF 185149 orbit. 185625 back on
4	1	191302	191944	V. light precip SW of center 191550 ref 191647 on
5		192228	192805	
6		194430	195017	track NNE
7	1	195550	201542	in R.B. 195712 EOF 201030 on
8	1	202933	204612	Weyewall 201526 ref 203319 204330 on
9	1	204830	205644	ref 204959 ref 205405
10	1	212533	213248	light rain 213032 ref (turn)
11	1	213518	214535	213738 ref
12	1	220750	221712	ref 220950
13	1	221927	224930	ref 222040 in turn on 224816

Most EOF in turns or clear air