

19900828 I1-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.

Cloud Physics Project Scientist Operational Check List

Date 28 Aug 90 Aircraft 43RF Flight ID 900828I1

A. Instrument Status and Performance:

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson-Williams	✓	TAS dial 170 comp?		
PMS probes:	✓			
2D-P	✓	Fair		
2D-C	CAPUT	X		
FSSP	?	✓		
Data System	✓	✓		
Recorder	✓	✓		
Formvar	—	—		
DRI Charge Probe	—	—		
DRI Field Mills	—	—		
King Probe	X	X		

B. Remarks:



## Formvar Log

## Flight

	STAND	
0	8008 2816	212
1	7023 0000	
2	0738 1041	0475
3	0468 142	0868
4	1008 1487	1486
5	0802	
6	3340 1187	
7	3338 4977	
8	0988 4960	
9	0023 1502	
	Operator 3867	

[illegible]

T/O K 1 1/2 ahead of data cycle  
1629/02 FSP on range 4 on T/O, lots of counts

Form E-3  
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### 2-D Knollenberg Data Tape Log

Date 28 Aug 90 Flight 900828 I Operator Willis

Tape #	EOF #	Time On	Time Off	Comments
1		1812/10	1822/30	
2		1822/30	1835/	DIDNT SWITCH
3		1835/56	1844/14	
4		1844/59	1858/20	DIDNT SWITCH, DIDNT START
5		1858/25	1904/35	<del>on Auto</del> <del>again</del> 1902 probe
6		1904/40	= 1930/xx	on slow row 1906/00 had a
7		1930/00	1954	JAS 24 1933/25 SWITCHED <del>to</del> back max
8		1954/31	2035	didn't start
9		2035/55	2050/30	
10		2050/30	2100/10	
11		2100/10	2117/20	2104/31 slow 2112/20 fast
12		2117/20	2202/30	
13		2202/30	2228/30	
14		2228/30	2317/47	
15		2317/47	2450/00	
16				