19870929IL-CLOUD

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

- 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.
 - Complete appropriate instrumentation preflight checklists as supplied in the cloud physics operator's kit.

E.3.2 In-Flight

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 Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS unless superseded by directions from the on-board LPS.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

- 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.]

5/

 Debrief as necessary at the appropriate operations center (i.e., FGOC or MGOC).

 Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted. Form E-3 Page 1 of 3

	Cloud Phy	sics Project	Scientist	Operational C	hecklist
	Date 09/29/87	Aircraft_	43	Flight ID	870929 II
Α.	INSTRUMENT STATUS	AND PERFORM	ANCE		

SEP 2 9 1987

-- 19870929ILCLOUD

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System	Preflight	Inflight	Downtime	# of Tapes
Johnson-Williams	1	1		
PMS probes	1	ſ		
2D-P	4	V		
2D-C	1	Ŷ		
FSSP	1	1		
Data Sys	p	0		
Displays	r	1		
Formvar	-			· · · ·
Nimbiometer				
CO_ Radiometer				

B. REMARKS

(D DRIVES DIDN'T SWITCH OFF/ON TO EACH OTHER (PING PONG) FOR FIRST FOUR TAPES. PROBLEM CORRECTED ITSELF. Form E-3 Page 2 of 3

DATE 9/29/87

FLIGHT 870929 I1

OPERATOR DORST

2-D Knollenberg Data Tape Log

Tape #	EOF #	Time On	Time Off	Comments
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2	1	183835	185611	
3	1	190000	190700	
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5	1	192700	193520	
6	i	193520	194816	
7	1	194816	195783	
8	1	195733	2005 5c	
9	1	200550	201319	
10	1	201319	201940	
(1	1	201940	202615	
12	1	202615	209319	
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From E-3 Page 3 of 3

DATE_____

FLIGHT_

OPERATOR

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ROLL #	TIME ON	TIME OFF	FRAME COUNT AT START	COMMENTS
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