1987092211- CLDAHY

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

- <u>NMD</u> 1. Determine status of cloud physics instrumentation systems and report to the on-board Lead Project Scientist (LPS).
- NMD 2. Confirm mission and pattern selection from the on-board LPS.
- NMD 3. Select mode of instrument operation as determined by the HRD/CPS.
- MMD 4. Complete appropriate instrumentation preflight checklists as supplied in the cloud physics operator's kit.

E.3.2 In-Flight

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 Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS unless superseded by directions from the on-board LPS.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

- NMD 1. Complete summary checklist forms and all other appropriate forms.
- NMD 2. Brief the on-board LPS on equipment status and turn in completed check sheets to the LPS.
- NMD 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.]
- NMD 4. Debrief as necessary at the appropriate operations center (i.e., FGOC or MGOC).
- NM) 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

19870922IL CLDANY

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Cloud Physics Project Scientist Operational Checklist Aircraft 43 Flight ID 97092271 Date 9/22/87

A. INSTRUMENT STATUS AND PERFORMANCE

6

System	Preflight	Inflight	Downtime	# of Tapes
Johnson-Williams		V		
PMS probes	1	1		
2D-P	1	/		
2D-C	1	1		
FSSP	V	V		
Data Sys	1			36
Displays	/	0		
Formvar	-			
Nimbiometer	$(A_{i}) = f + I_{i}$.87	
CO2 Radiometer			-	
-				

B. REMARKS

D2150Z - ON BOARD PMS display flaky from vibration. A Jani sez it's OK & recorded data should be fine.

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DATE 9/22/87

FLIGHT_ 870922 II

OPERATOR DORST

2-D 1	Knoll	enberg	Data	Tape	Log
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Tape #	EOF #	Time On	Time Off	Comments
- list	t_	153000	15 34 58	CLEAR AIR UPDATING
2	1	15 39 50	15 49 20	G PEN.
3	1	154938	155630	
4	1	155630	160306	
5	1	160306	161009	
G	1	161020	161709	
7	l	16 1709	162518	200 G PEN.
8	1	162518	1636	
9	١	163003	170230	200 G PEN
10	1	170420	171830	
11	١	171850	172948	
12	ı	172948	173840	
13	1	173840	174550	G PEN.
14	١	174550	175209	
15	(175209	175920	
16	1	175920	181054	
17)	181900	1828.20	_
18	1	1823 30	183720	
19	2	183750	184600	
		191900	192607	

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DATE	9/22/87	FLIGHT	87092	21OPERATOR_WORST	
PMS TAPE Eormvar, Log tof FOF					
TAPE ROLL #	TIME ON	TIME OFF	FRAME COUNT AT START	COMMENTS	
20 '	192630	194337	1		
21	199355	19 5200	1		
22	195200	195754	1		
23	195830	200520	1	G PEN	
24	200520	201210	1		
25	201210	201920	1		
2:0	201920	202909	1		
27	202909	203510	1		
28	203510	204350	1	G PEN	
29	204350	210000	1		
30	2100 00	210820	1	6 PEN	
31-	210820	211745	i		
32	211745	212729	1		
33	212729	213600	1		
34	21 3600	214220	1		
25	214220	214500	2	Origination Dates To ISEC	
	221100	222430		LAST G PEN	
36	222430	22 2630	2		
1	223915	224130		ENIT KAM STORM	