19890929 I1_CLDPHY

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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

Mind	1.	Determine status of cloud physics instrumentation systems and report to the on- board lead project scientist (LPS).
MinD	2.	Confirm mission and pattern selection from the on-board LPS.
MinD	3.	Select mode of instrument operation as determined by the HRD/CPS.
4mD	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 Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS, unless superseded by directions from the on-board LPS.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.
- MMO 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.]
- MMD 4. Debrief as necessary at the appropriate operations center (i.e., FGOC or MGOC).
 - <u>MO</u> 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

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1.11.

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Cloud Physics Project Scientist Operational Check List

A. Instrument Status and Performance:

· de

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson-Williams	1	A		
PMS probes:	1 42'5	\wedge		4
2D-P	1	Votes? O		
2D-C	1	ſ		
FSSP	ſ	1		
Data System	ſ	\uparrow		
Displays	1	\uparrow		
Formvar	. 1	p		2
Nimbiometer				
CO ₂ Radiometer				

B. Remarks:

(D JIM ROLES SAYS VOLTAGES COMING OUT OF PARTICLE PROBE LOOK BAP, OUT OF CLOUD DROP PROBE LOOK OK.

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2-D Knollenberg Data Tape Log

Date SEPT	29,1981	Flight	EP 2 9 1989 909 29 II	_ Operator DORST HALLE
Tape #	EOF #	Time On	Time Off	Comments
1		181515	181630	I IST PENETRATION E-W
		182038	182123	2 ND WHE
		182525	182615	3rd E-W
		182950	183024	4 TH N-5
		183340	183417	5'TH E-W
		183650	183738	GTH N-S
		184104	184141	7TH F-W
2		184846	184936	8th NE-SW
	ħ	185319	185401	9TH E-W
and the second s		191755	191853	10 TH NIN-SE
		192215	192220	Mise cloud tops
		192540	192626	11TH W-E
		192653	1927 20	" " (clear air)
		192845	1929.40	IN CLOUDS IN TURN N-5
7 63		193926	194020	12TH NW-SE
3	244 - 144 2	1940 44	194116	w : E - W
		194447	194523	13TH N-5
		195010	195225	14TH SE-NW
		195852	195936	15TH 5-N
		202623	202635	16TH E-W

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TAPE Formvar Log

Date SEPT 29, 1989 Flight 890929 TI Operator FLALLET ORST L

TAPEH BOFF#	Time On	Time Off	Frame Count at Start	Comments
4	202635	202825		STARTED DURING LAST
				FLY-THRU
		-		
	*			
				- A.
8.				No. 1
1410.000				
				A Contraction of the second se