19890805HI_CLDATA

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2-D Knollenberg Data Tape Log

Date AUG 5 1989 Flight 89080SH Operator R. A. BLACK

Tape #	EOF #	Time On	Time Off	Comments
1		151326	151923	ENERGETICS EXP.
2		152324	152919	150930 out E. side
3		153700	154324	no 2D-C in raw
4	1	154940	155528	tape drive #2 doesn't work
5		155811	160513	FSSP?
6		160800	161440	
7	2	163940	170225	EOF 163952 on 165519 EOF 165554 on 165810
8		171835	172410	
9		172628	173204	last tape this alt.
10		183420	184044	at 1500'
11	1	185220	190325	EOF@ 1853. start climb.
12		191545	192132	strong feature w/ wind shift. $\phi \sim 50^\circ$
13		201340	201950	in a melting layer
14		202430	203004	

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Formvar Log

Date AUG 5 1989 Flight __________ Operator __________

Roll #	Time On	Time Off	Frame Count at Start	Comments

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 Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS, unless superseded by directions from the on-board LPS.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

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.

RAB

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Cloud Physics Project Scientist Operational Check List

Date AUG 5 1989 Aircraft 42 Flight ID 890805H

A. Instrument Status and Performance:

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson-Williams	✓			
PMS probes:				14
2D-P	✓	OK		
2D-C	✓	DOWN	ENTIRE FLT.	
FSSP	✓	DOWN	11	
Data System	✓			
Displays				
Formvar	N/A			
Nimbiometer	—			
CO_2 Radiometer	✓			

B. Remarks:

FSSP never shows counts in size channel >1

2D-C apparently lost lasers. R. A. B.