19880908I1.CLDPHY

SEP 8 1988

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 Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS, unless superseded by directions from the on-board LPS.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

Form E-3
Page 1 of 3

Cloud Physics Project Scientist Operational Check List

Date 9/8/88 Aircraft 43 RF Flight ID 880908I1

A. Instrument Status and Performance:

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson-Williams	↑	↑	—	
PMS probes:	↑	↑	—	5
2D-P	↑	↑	—	
2D-C	↑	↑	—	
FSSP	N.A.	—		
Data System	↑	↑	—	
Displays	↑	↑	—	
Formvar	NA	—		
Nimbiometer				
CO_2 Radiometer				

B. Remarks:

Form E-3
Page 2 of 3

2-D Knollenberg Data Tape Log

Date 9/8/88 Flight 880908I1 Operator DORST

Tape #	EOF #	Time On	Time Off	Comments
1		2433	2434	GRAUPEL, DENDRITES, EDGE OF BIG CELL
	2	2436	2439	PAUSE FOR CLEAR AIR
2	1	2439	2444	HVY ECHO
3	1	2445	2450	
4	1	2450	2456	STILL HARD AT IT
5	1	2456	2501	2458 - MOSTLY ANVIL PRECIP

~~Formvar Log~~

Date 9/8/88 Flight 880908I1 Operator Dorst

Roll #	Time On	Time Off	Frame Count at Start	Comments