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.

_____ 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 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 as follows:

   a. Outside of Miami – to the HRD operations center (FGOC).
   b. In Miami – to AOML/HRD. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC 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.

Cloud Physics Project Scientist Operational Check List

Date __950827I__   Aircraft __43 RF__   Flight ID __08/27/93__

A. Instrument Status and Performance:

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson–Williams	↑			
PMS probes:				
2D-P	↑			
2D-C	→			
FSSP	↑			
Data System	↑			
Recorder	↑			
Formvar	N/A			
DRI Charge Probe	N/A			
DRI Field Mills	↑			
King Probe	↑			

B. Remarks:

2-D Knollenberg Data Tape Log

Date __8/27/93__   Flight ___930827 I___   Operator ___Marles___

Tape #	EOF #	Time On	Time Off	Comments
DAT-1		~1900		time say ~0700 (no 24h clock)

Formvar Log

Date _8/27/93_   Flight _930827I_   Operator _Marks_

Roll #	Time On	Time Off	Frame Count at Start	Comments