

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.

Form E-3
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2-D Knollenberg Data Tape Log

Date July 13, 14 91 Flight 910713H1 Operator Renno
(Dodge, Marks)

[illegible]

910713H1

Cloud Physics Project Scientist Operational Check List

Date ⁽¹⁴⁾ 13 July

Aircraft 42

Flight ID 910713H2

A. Instrument Status and Performance:

System	Pre-Flight	In-Flight	Downtime	# of Tapes
Johnson-Williams				
PMS probes:				
2D-P	✓			
2D-C	no			
FSSP	no			
Data System	✓			
Recorder	✓			
Formvar	X			
DRI Charge Probe	X			
DRI Field Mills	X			
King Probe	X			

B. Remarks:

SELIM & GEORGE got it going!
TAPE DRIVES WOULD NOT SWITCH AUTOMATICALLY
BUT THAT WAS NO PROBLEM. NILTON RENNO
SWITCHED DRIVES MANUALLY.

Formvar Log

Date _____ Flight _____ Operator _____

[illegible]