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.

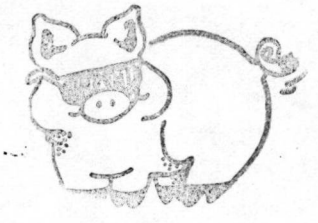
_____ 2. Brief the on-board LPS on equipment status and turn in completed check sheets to the LPS.

_____ 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.



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Cloud Physics Project Scientist Operational Check List

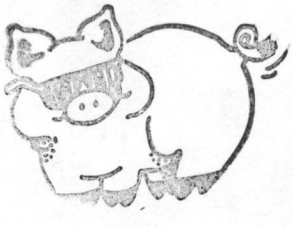
Date 8/28/93 Aircraft 43RF Flight ID 930828I

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	—	—		
DRI Charge Probe	—	—		
DRI Field Mills	↑	↑		
King Probe	↑	↑		

B. Remarks:

IDAT



AUG 2 8 1993

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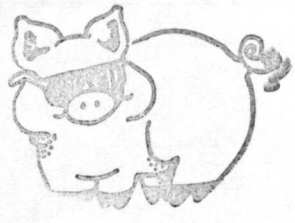
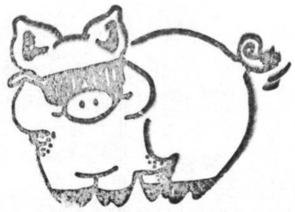
2-D Knollenberg Data Tape Log

Date 8/28/93 Flight 930828I Operator Marks

Tape #	EOF #	Time On	Time Off	Comments
1	~~0~~			on after first pass of Fig 4



Form E-3
Page 3 of 3



AUG 28 1993

N/A

Formvar Log

Date ______________ Flight ______________ Operator ______________

Roll #	Time On	Time Off	Frame Count at Start	Comments