

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 Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS unless superseded by directions from the on-board LPS.

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E.3.3 Postflight

- ☐ 1. Complete summary checklist 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.

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DATE \_\_\_\_\_ FLIGHT \_\_\_\_\_ OPERATOR \_\_\_\_\_

## Formvar Log

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Cloud Physics Project Scientist Operational Checklist

Date \_\_\_\_\_ Aircraft \_\_\_\_\_ Flight ID \_\_\_\_\_

A. INSTRUMENT STATUS AND PERFORMANCE

<u>System</u>	<u>Preflight</u>	<u>Inflight</u>	<u>Downtime</u>	<u># of Tapes</u>
<u>Johnson-Williams</u>				
PMS probes				
2D-P				
2D-C				
FSSP				
Data Sys				
Displays				
<u>Formvar</u>				
<u>Nimbiometer</u>				
<u>CO<sub>2</sub> Radiometer</u>				

B. REMARKS