

E.2 Cloud Physics Scientist (On Board)

The on-board cloud physics scientist is responsible for cloud physics data collection on his or her assigned aircraft. Detailed operation procedures are contained in the cloud physics kit supplied for each aircraft. General procedures follow. (Check off and initial.)

E.2.1 Preflight

- ☒ 1. Determine status of cloud physics instrumentation systems and report to on-board lead project scientist.
- ☒ 2. Confirm mission selection and pattern selection from on-board lead project scientist (LPS).
- ☒ 3. Select mode of instrument operation as determined by HRD cloud physics scientist.
- ☒ 4. Complete appropriate instrumentation preflight checklists as supplied in cloud physics operator's kit.

E.2.2 In-Flight

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Operate instruments as specified in cloud physics operator's kit and as directed by HRD cloud physics scientist, unless superseded by directions from on-board LPS.

E.2.3 Postflight

- ☒ 1. Complete summary checklist forms and all other list forms.
- ☒ 2. Brief 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, such as formvar film, foil, etc., and turn these data sets in to the flight director, who will arrange delivery as follows:
 - a. Outside of Miami - to HRD operations center.
 - b. In Miami - to UAO DQAG offices.
- ☒ 4. Debrief as necessary at operations center.
- ☒ 5. Determine status of future missions and notify operations center as to where you can be contacted.

Cloud Physics Project Scientist Operational Checklist

DATE 840912I1

AIRCRAFT 43 RF

FLIGHT _____

A.

INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson-Williams	✓		✓		
Nimbliometer					
Lyman Alpha					
U. V.					
dewpoint					
Formvar					
Knollenberg					
Raindrop	UPDATING	✓	✓		
Cloud Droplet	✓		✓		
FSSP	✓		✓		
Data System	✓				
& Displays					
Ice Particle Counter					
Mee					
ERT					
CO ₂ Radiometer					
Microwave Radiometer					
Aerosol					
Filters					
Bulk-Water					
INC					
CCN					

B.

REMARKS

DATE 840912I1

FLIGHT 840912I1

OPERATOR Bluestein /with/

2-D Knollenberg Data Tape Log

MARTY BISITOP

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