

19840923HL CLPPHY

E.2 Cloud Physics Scientist (On Board)

840923H1
Norbert

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.)

18.5N 108.5W

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

R time 1 sec behind display

- ☒ 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Operate instruments as specified in cloud physics operator's kit and as directed by HRD cloud physics scientist, unless superseded by directions from on-board LPS.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 23 Sept 84

AIRCRAFT 42

FLIGHT 840923H1

A.

INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson-Williams	✓	✓	✓		
Nimbliometer	?	?	—		
Lyman Alpha					
U. V.					
dewpoint					
Formvar	✓	✓	✓		
Knollenberg					
Raindrop	✓	✓	✓		
Cloud Droplet	✓	✓	✓		
FSSP	✓	✓	✓		
Data System & Displays	✓	✓	✓		13 TAPES
Ice Particle Counter					
Mee					
ERT					
CO ₂ Radiometer					
Microwave Radiometer					
Aerosol					
Filters					
Bulk-Water					
INC					
CCN					

B.

REMARKS

2210 Z

1.198	0.717
0.383	1.570
1.500	1.518
11.89	11.96
5.091	4.960
4.865	4.991
1.505	1.513
2.849	0.120

FSSP range 1 VELREJECT - off.

Probe updating a little at high speed

2758 Z

0.984	0.683
0.222	1.417
1.500	1.519
11.88	11.94
5.089	4.957
4.863	4.993
1.505	1.514
2.814	0.224

DATE 23 Sept 84

FLIGHT 840923H1

OPERATOR Willis/Boger L

2-D Knollenberg Data Tape Log

[illegible]

off
2951/45
1N2514/20
distinct
cells

DATE 23 Sept 84 FLIGHT 840923 H 1 OPERATOR Willis/Bayer

Formvar Log

[illegible]