19840911H1_CLOPHY

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

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Uperate instruments as specified in cloud physics operator's kit and as directed by HRD cloud physics scientist, unless superseded by directions from on-board LPS.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

- 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.

In Miami - to UAU DUAG offices.

- Debrief as necessary at operations center.
 - 5. Determine status of future missions and notify operations center as to where you can be contacted.

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DATE <u>11 Sept 84</u> A.	AIRCRAFT 42 FLIGHT 840911H1 INSTRUMENT STATUS AND PERFORMANCE						
	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected		
Johnson-Williams	~						
Nimbiometer							
Lyman Alpha U. V. dewpoint							
Formvar		NOT OPERA	TRO				
Knollenberg Raindrop Cloud Droplet FSSP Data System & Displays		111					
Ice Particle Counter Mee ERT							
CO2 Radiometer					19 - A.		
Microwave Radiometer	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
Aerosol Filters Bulk-Water INC CCN							

Cloud Physics Project Scientist Operational Checklist

Β.

REMARKS

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DATE // Sep 889

FLIGHT 8409 WH1

OPERATOR Wigger

2-D Knollenberg Data Tape Log

	Tape #	EOF #	Time On	Time Off	Comments
a	1		1133	1149	Display spikes no drops
L	2		1149	1202	n on hold that's why.
ù	3		1202	7229	RegelayOK
L	4		1224	1247	
J	5		1247	1300	
L	6		1300	1324	
M	7		1324	1360	lover drive did not start
h	8		1346	1912	
L	9		1412	14-43	
	10		1443	453	
V) 1		1953	1508	
	12		1508	1577	
L	13		1517	1528	
	14		1528	1551	
U	15		1551	1618	
	16		1618	1632	·
i	17		1632	- 1645	
	18		1645	1704	
1	19		1708	1727	

1

Form E-2 Diana Page 3 of 3 DATE // Sept 87 FLIGHT 870911 H4 OPERATOR Wyged FORMVAR EOG 2D Hullenber, Gu FRAME COUNT AT ROLL # TIME ON TIME OFF COMMENTS 727 744 1.801 2 1801 ~1815 22 ~1815 23

67