19890920 II. CLOPHY

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

- Determine status of cloud physics instrumentation systems and report to the on-board Lead Project Scientist (LPS).
- M 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

Au

 Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS unless superseded by directions from the on-board LPS.

E.3.3 Postflight

- M 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.]
- Am
- 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.

890920I Hago

Form E-3 Page 1 of 3

Cloud Physics Project Scientist Operational Checklist

Date_____ Aircraft_____ Flight ID_____

MAGOD IT SPOPSE 1. CODINY

A. INSTRUMENT STATUS AND PERFORMANCE

System	Preflight	Inflight	Downtime	# of Tapes
Johnson-Williams				
PMS probes				
2 D - P	1 5W voltage			
2D-C	Convoltag			
FSSP				
Data Sys				
Displays				
Formvar	X			
Nimbiometer	Γ'×			
CO, Radiometer				
-2				

B. REMARKS

1... Form E-3 Page 2 of 3

DATE 9/20/89

FLIGHT S90920I Hago 2-D Knollenberg Data Tape Log

OPERATOR Marly/Black

Tape #	EOF #	Time On	Time Off	Comments
1		192648	19 3220	on max rate - 2.0° 5280m
				mile ile
				193039 -,8°C
				193127 0.2°C
				193148 Groupel in tw
2	1º	193235	194223	F= 0.1%
				193630 T= 4,0°C
				193729 slow rate a ege
				194203 Sast rule
3		194300	194827	T= 2,2°C maxvate
				194652 T=0.4°C
4	41 A.	194844	200130	T=1:2° mak rate Nof Gentam
				195158 slow vate going doom who
				195945 may rate heading in T=1
				200030 grangel - 200109 T=0.0°C
5		200130	201158	max rate T=1,7°C
				200430 slow rate in eyes
				200920 fast rute Elgewall T=2
6		201158	2017	T=1,1°C in E eyewall real strat,
				T=0.6°C 201251
				T=-1,2 201315 graupel
7		2017	202430	T= 46°
8		202428	202944	T= -1.0

From E-3 Page 3 of 3

DATE____

FLIGHT_

OPERATOR

tra.

Formvar Log

ROLL #	TIME ON	TIME OFF	FRAME COUNT AT START	COMMENTS