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 Pro	efli	ght
	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 $\ensuremath{HRD/CPS}$.
	4.	Complete appropriate instrumentation preflight checklists as supplied in the cloud physics operator's kit.
E.3.2 In	-F1i	ght
	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	Operate instruments as specified in the cloud physics operator's kit and as directed by the HRD/CPS unless superseded by directions from the on-board LPS.
E.3.3 Po	stfl	light_
	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.

7

Form E-3 Page 1 of 3

	Cloud	Physics	Project	Scientist	Operational	Checklist
Date		A:	ircraft_		Flight :	ID

A. INSTRUMENT STATUS AND PERFORMANCE

System	Preflight	Inflight	Downtime	# of Tapes
Johnson-Williams				
PMS probes				
2D-P				
2D-C				
FSSP				
Data Sys				
Displays				
Formvar				
Nimbiometer				
CO ₂ Radiometer	(8)			

B. REMARKS

DATE 23 Sept 87 FLIGHT 870923 I OPERATOR Willis

2-D Knollenberg Data Tape Log DATA SYSTEM

1937/30 Comments Time Off Time On EOF # Tape # 1925/00 changed cate 1920/00 1940/02 MOSTLY 1925/00 chang 1 1945/40 TO 0.5 1952/07 2 1957/40 1956/20 LIGHTHING STRIKE CL 3 PCP 2005/20 0,5 1.093 0,695 2015/40 ENN DIONES .856 0.831 4 HVY GRAUJEL 2019/26 2024/30 2015/40 2024/50 5 2026/27 2030/12 6 2035/19 8 10 RUN AT 0.5 mostly in clear air now 11 2200 72200 12 13 =2400 2520/50 2650 14

	E. ICHT	OPERATOR
DATE	FLIGHT	UPERATUR
UNIL	, , , , , , , , , , , , , , , , , , , ,	

Formvar Log

ROLL #	TIME ON	TIME OFF	FRAME COUNT AT START	COMMENTS
. / .				
			-theretake	
				99
	*	-		
				•