

Form J-2 Cloud Physics Project Scientist Operational Checklist

DATE 10/13/83

AIRCRAFT 831013H

FLIGHT 831013H

A. INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson Williams	✓	OK	✓		
Nimbliometer	✓	OK	✓		
Lyman Alpha U. V. dewpoint	—		—		
Foil Impactor	—	—	—		
Formvar	—	—	—		
Knollenberg Raindrop	OK	OK	OK		
Cloud Droplet	BAD	—	—		
FSSP	OK	?	OK		
Data System & Displays	OK	—	OK		
Ice Particle Counter Mee ERT	—		—		
CO <sub>2</sub> Radiometer	—		—		
Microwave Radiometer	—		—		
Aerosol Filters	—		—		
Bulk Water					
INC					
CCN					

B. REMARKS

# PMS LOG - 4<sup>2</sup> RF

DATE 8/10/13/83 FLIGHT 831013H PAGE 1 of

OPERATOR R. BLACK

T.S. TICO

TAPE #	ON/OFF/EOF	NOTES
1	155059 / 161845 / 0 EOF	ms 2D-C PMS on prior to cloud pass. TRK 224
2	161845 / 173304	GA 585, TA = 23°C
3	173309 / 175359	155915 - eye of storm 80 n. mi. away
4	175359 / 181845	12(1.237) 13(1.090) end diode volts.
5	181845 / 184043	161320 in 1st rainband
6	184043 / 1905/45	162248 into other side of "eyewall" next wind
7	1905/45 1931/31	85 kt. 1500' hurricane TICO 10 min. top of fig. 4 part
8	1931/31 1952/41	TRK 90° EAST. turn 171050 to TRK 314
9	1952/41 2018/32	in eye 173259 173806 13(0.746) 12(1.118)
10	2018/32 = 2036	NW eyewall stronger SW ~ 1/2 kg peak. 1146 turn to 175
11	2036 / ~ 2054 / 50	~1750 turn to TRK 89° for radial run to eye
12	2054 / 50 2125 / 18	in eye 1804 turn to 100° reference
13	2125 / 18 2132 / 40	181354 turn to 276 back to eyewall. still 1500'
14	2132 / 40 214027	TRK 280 out. 182353 - 1000' TRK 107°
15	214027 // 214550	(270°) TRK 248 into eye @ 1 k ft. 183605
16	214550 // 215253	12(1.136) 13(0.992)
17	215253 // 215849	184532 TRK <del>100</del> 100° 600 m
18	215849 - 220346	1905/00 Times in sync
19	220347 - 220905	1941/13 FSSP looks like it is not working - how long?
20	220906 - 211538	1951/21 13.67 / 102.96 eye 2122/50 cloud PROBE ON 220840 grapple in turn

# PMS LOG - 43 RF <sup>2</sup>

DATE 10/13/83 FLIGHT H TICO PAGE 2 OF

OPERATOR R. BLACK

TAPE #	ON/OFF/EOF	NOTES
21	211539 - 222131	T = -13.8 °C heading for eye 7.7 km
22	222132 - 222734	TRK 144 bright band on tail RDR
23	222804 - 224829	223446 2D-note = 1/2 not MAX downband
24	224830 - 232537	TRK 310 T-11.6 7700 GPM
25	232538 - 240938	230638 in eye start down <sup>path</sup> "moat" 2308
26	240939 -	in eye 2332
		- turning down "clear" lane 233639 in eye 2350 → heading out homeward bound. passed through turbulent debris ~ 2355 →