

Form J-2 Cloud Physics Project Scientist Operational Checklist

DATE 800808

AIRCRAFT 42RF

FLIGHT 500808H

A. INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson Williams	OK				
Nimbicometer	N/A				
Lyman Alpha	N/A				
U. V. dewpoint					
Foil Impactor	UP				630"
Formvar	N/A				
Knollenberg	UP				12 TAPES
Raindrop	✓				
Cloud Droplet	✓				
FSSP	✓				
Data System & Displays	✓	OUT 220230			
Ice Particle Counter	N/A				
Mee					
ERT					
CO ₂ Radiometer	UP				
Microwave Radiometer	J.P				
Aerosol	N/A				
Filters					
Bulk Water					
INC					
CCN					

B. REMARKS

220230 LIGHTNING WIPE OUT DISPLAY OF BOTH 2-D PROBES. Tape #12 was run to test the functioning of the Knollenberg DAS. This tape will be dumped tonight to see if the data is good or not.

PMS LOG

800808

DATA SYSTEM

ON 163³⁰⁰ OFF

TAPE ON OFF

EOF TIMES

NOTES

#1	
ON 190515	from outer rainband
EOF 1910 040	waiting to get nearer to inner rainband / eyewall; most intense sector
ON 191448	EOT inside outer edge of eyewall
EOF 192000	
#2	
ON 192359	start with eye-wall on way out ^{TRK} TRK 290
EOF 192935	outside of eyewall; most intense area at 90° from TRK
#3	
ON 194020	into eye from ^{TRK} TRK 116 - eyewall 40 n mi.
EOF 194320	1942 T = -1.0°C, into outer rainband cloud.
ON 194430	measures to 1st rainband
EOF 194716	slanting near to eyewall ^{TRK} TRK 112.3
#4	
ON 195141	through eyewall TRK 199.6, TA = 0°C
EOF ~195720	
#5	
ON 201500	from rainbands to eye (or near it) TRK 21.0
EOF 202200	2012 - much less convection on this side - eye 40 n mi.
TAPE OFF 202205	
#6 ON	
202438	in eyewall → rainband TRK 20.
EOF 203220	passed through most intense area T = -1.0
#7	
ON 204535	definite rainband on radar TRK = 205°
EOF 205200 in eye	tracking from outside to inside of eye.
TAPE OFF	3 seems like more LW in rainband than before

PMS LOG

DATA SYSTEM

800808 P.2

ON

OFF

TAPE

ON

OFF

EOF TIMES

NOTES

#8

ON 2054³⁹

~~2058~~

EOF 210903

fn. eye to rainband TRK 110.0°
2108 - heading into an outer rainband. TRK 107.0°
within a rainband. EOF before main updraft

#9

ON 212230

EOF 213526

Penetration @ ~ -3.5°C, 6.3km TRK 295

212550 heading 295 (TRK), T = -3; toward eyewall

2130 into eye TRK 290° JW = .5g/kg

213300 out of eye TRK 292; EOF within eyewall

EO #10 ON

213754

EOF 214318

in 1st rainband TRK 292

214055 in gap outside of 1st rainband.

#11

- still at ~ T = -3 to -4, 6.25km

ON 215310

1st rainband TRK 110.2

EOF 215600

between radar rainband + eye

ON 215739

to eyewall. T = -3.5°C, A = 6.13km

EOF 2201

215858 - in eye TRK 200

22:02 30

- 2D probes out? - lightning strikes DISPLAY OUT

220319

- ON - EOF 220413

#12

*** AFTER LIGHTNING STRIKE ***

ON 224800

LAT 24.14N 91.24W LON TRK = 70°

EOF 225130

RA = 6311 This is a test to see if the 2-D's are still OK

