

19800808H1-CLDPHY

Form J-2 Cloud Physics Project Scientist Operational Checklist

DATE 800808AIRCRAFT 42RFFLIGHT 800808H1

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 WIPED 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

#1

ON 190515

EOF 1910~~00~~40

ON 19144~~5~~9

EOF 192000

#2

ON 192359

EOF 192935

#3

ON 194020

EOF 194320

ON 194430

EOF 194716

#4

ON 195141

EOF ~195720

#5

ON 201500

EOF 202200

TAPE OFF 202205

#6 ON

202438

EOF 203220

#7

ON 204535

EOF 205200 in eye

TAPE OFF

NOTES

from outer rainband

waiting to get nearer to inner rainband/
eyewall. most intense sector
EOF inside outer edge of eyewall

start with eye-wall on way out ~~TRK~~ 290
outside of eyewall; most intense area at 90° from Hdg.

into eye from ~~TRK~~ 116 - eyewall 40 n mi.
1942 T = -1.0°C, into 1st rainband cloud.

nearer to 1st rainband
climbing near to eyewall ~~TRK~~ 112.3

through eyewall TRK 199.6, TA = 0°C

from rainband to eye (or near it) TRK 21.0
2012 - much less convection on this side - eye 40 n mi

in eyewall → rainband TRK 20.5
passed through most intense area T = -1.0°C

definite rainband on radar TRK = 205°
tracking from outside to inside of eye.
} 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

fr. 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

EOF 215600

ON 215739

EOF 2201

1st rainband TRK 110.2

between radar rainband & eye

to eyewall. T = -3.5°C, A = 6.13km

215858 - in eye TRK 200

22:0230 - 2D probes out? - lightning strikes DISPLAY OUT

220319 - ON - EOF 220413

#12

*** AFTER LIGHTNING STRIKE ***

ON 224800

EOF 225130

LAT 24.14N 91.24W LON TRK = 70°

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

OPERATOR

R.A. BLACK

[illegible]