

19800809HI - CLDPHY

Form J-2

Cloud Physics Project Scientist Operational Checklist

DATE 800809

AIRCRAFT 42RF

FLIGHT 800809HI

A.

INSTRUMENT STATUS AND PERFORMANCE

RA, BLACK

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson Williams	UP	UP			
Nimbrometer	N/A	N/A			
Lyman Alpha	N/A	N/A			
U. V. dewpoint					
Foil Impactor	DOWN	N/A			
Formvar	N/A	N/A			
Knollenberg					8 TAPES
Raindrop	UP	✓			
Cloud Droplet	UP	✓			
FSSP	UP	✓			
Data System & Displays	UP	✓			
Ice Particle Counter	N/A	N/A			
Mee					
ERT					
CO ₂ Radiometer	UP	✓			
Microwave Radiometer	UP	✓			
Aerosol	N/A	N/A			
Filters					
Bulk Water					
INC					
CCN					

B.

REMARKS

Knollenberg de-icers apparently aren't working
These were from the land-fall of hurricane Allen

PMS LOG

DATA SYSTEM

800809

P.1

42RF

ON

OFF

TAPE

ON

OFF

EOF TIMES

NOTES

#1

ON 262528

EOF 263217

into eyewall?? its very confused,
in eye?? 2D-C overloaded - GARBAGE
= wet optics? TRK = 274.5

#2 ON 264000

EOF 265050

eyewall?? to
1st rainband.

2D-C QUESTIONABLE TRK 3.0

2D-C OFF 264300 (TRK 1.0)

2DC ON 264440

#3

ON 274900 TRK 190.2, 195.0

EOF 280037 in eyewall
not very impressive.
S. of eye is open.

272730 we've been tooling through TRW's near land W of storm.

heading back to storm, TRK = 204 @ 273200

275100 - TRK 198; rainband $\rightarrow$ eye 275520 $\rightarrow$ TRK 180

275730 TRK 185

#4

ON 283235

EOF 284705

in "eye" (what's left of it) track 2.5° into remains of eyewall +
rainbands.

well north of the remnants of the eye is a rainband.

#5

ON 290929

EOF 291800

heading in to eye; TRK $\sim$ 180°
just as we got into eye.

#6

ON 291900 55

EOF 293200

heading into eye - wall remains. TRK 180°
into eye, still heading south.

#7

ON 295440

EOF 293012 20

heading into eye TRK $\sim$ 000 very calm + smooth,
2D-C operating normally.
going north away fr. "eye".

3200

1600 mm

4 MHz

PMS LOG

DATA SYSTEM

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42RF

P.2

ON

OFF

TAPE

ON

OFF

EOF TIMES

NOTES

TAPE #8

ON 303340

304200

EOT 304440

TRK 180° THROUGH RAINBANDS, MAY SKIRT EYE

TRK 90° heading home + climbing

ALT = 3790 TRK 90°