

19800805HI-CLDPHY

Form J-2 Cloud Physics Project Scientist Operational Checklist

DATE 800805AIRCRAFT 42RFFLIGHT 1

A.

INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson Williams	OK				
Nimbliometer	—				
Lyman Alpha	—				
U. V.	—				
dewpoint	—				
Foil Impactor	OK	iced down			
Formvar	—	12:15 GMT			
Knollenberg					
Raindrop	OK	OK			
Cloud Droplet	OK	icing problem			
FSSP	OK	OK			
Data System	OK				
& Displays	OK				
Ice Particle Counter	—				
Mee	—				
ERT	—				
CO ₂ Radiometer	OK				
Microwave Radiometer	OK				
Aerosol					
Filters	—				
Bulk Water	—				
INC	—				
CCN	—				

B.

REMARKS

Tape drive unit on @ 0612 foil ran out to 56" for tests. ZEROED @ 104"
 icing seems to be a problem w/ 2-DC. may be the de-icer isn't operating properly.

Tape drive unit has bad record switch

SERIAL # KNOLLENBERGS
 2D-P - 03
 2D-C - 01
 FSSP - 08

PMS LOG

DATA SYSTEM

800805

ON 0545

OFF

APPARENTLY TIME USED IS STANDARD NOT Z

TAPE

ON

OFF

EOF TIMES

NOTES

RECORD ON

0652:30 EOF 0658

0701 TAPE 2

070645 EOF=END #2

70911 71209=EOF

71718 → ON 7:18¹⁸⁴⁵ OFF=EOT #3

#4

72344 EOF 726

7:3040 EOF 7:30:40

7:3032 EOT 7:35

7:37 #5 ON

EOT ~ 7:45

750

750 tape 6 ON

0800 off EOT

tape 7 ON 0813

EOT 8:23

#8 8:25:24

EOT 833

8:38 tape #9

8:43 ON

EOF 8:49

tape #10

901 = ON EOF @ 9:05

ON 9:06 EOF @ 9:1109

depolarizes signal is
sporadic

7:18 much graupel &
approaching eye wall

AK will miss island,
eye wall

tape recording is
continuous.

many 0 size particles

lost 2-DC @ 7:50

7:58 2D-C back ON - maybe iced

on way in to eye

2DC out
2DC in

PMS LOG

DATA SYSTEM

800805H1 P.2

ON

OFF

TAPE

ON

OFF

EOF TIMES

NOTES

#11

9:13:44 #11 ON

9:18:40 EOF

9:27:30 ON

9:30 EOT

in eye ~ 9:18:00
2-D-C off - iced

#12

9:32:35 ON

9:39:23 EOF

9:40:40 ON

EOT 9:42:07

no 2-DC

2-D-C back ON LINE

#13

ON 9:51:00

9:55 - much supercooled H₂O in eye wall in midst of 1st rainband.

9:56 EOT

2-D-C is on also.

#14

10:09:13 ON

10:10:50 off EOF

10:13 ON

10:17:10 EOT

though turned in eye 2-D-C out

in eye wall, 2-D-C out
in 1st rainband.

#15

10:31:00 ON

10:34:30 off EOF

10:35:40 ON

10:37:30 EOT

begin 1st rainband penetration,
end 1st rainband.
eye wall

16 10:40:30 ON → tape screwed up. rewound, 2-D-C out

PMS LOG

3

DATA SYSTEM

800805 P.3

ON

OFF

TAPE

ON

OFF

EOF TIMES

NOTES

TAPE 16

ON 10:47:55

EOF 10:54:45

ON 2

10:55:40

10:58:00 EOF

10:59:30 ON

EOT 10:01:30

#17

ON 11:40:07

EOF 11:16:30

ON 11:20:06

EOF 11:22:39

ON 11:24:40 - heading into turret

EOF 11:30

Q

#18

ON 11:35:23

11:36:30

EOT 11:42:00

#19

ON 11:44:30

EOF 11:48:40

ON 11:59:00

EOF 12:00:45

#20

ON 12:03:50

EOT 12:09:15

#21

ON 12:24:00

2DC out again, heading for connective
towers in the eye again.

2D-C back on again.

between rainband + eyewall
in rainband #1

inside 1st rainband, 2D-C still on

near eyewall

inside eye, heading for connective
turret.

2-DC out 25:40

2DC out

2DC recovery in eyewall
in 1st rainband.

in rainband

is a turn at the end of a leg

heading back. this is for data in outer edge of storm.
EOT imminent,

approach rainband #1
in eye wall

in big cell in eye

PMS LOG

DATA SYSTEM

ON

OFF

TAPE

ON

OFF

EOF TIMES

#21 EOF 122600

ON 122748

· EOT 123200

#22

ON 124813

EOT 125320

#23

ON 125538

EOF 125653

ON 130339

EOF 130600 - off

#24

ON 131400

EOT 131920

25

ON 132145

EOT 132650

#26

ON 133000

EOT 133512

#27

ON 133725

EOT 134220

#28

ON 134436

EOT 134949

#29

ON 135157

EOT 140633

NOTES

in eye 2-OC ON + OK
in eye wall
outside 1st rainband

in eye wall

in eye wall again

in rainband pass - DAS updates continuously
tape end

continue rainband pass.

in eye @ ~ 1354
through eye wall.

PMS LOG

DATA SYSTEM

PMS TIME IS 1.0 SEC SLOW FROM A/C DAS

ON

OFF

TAPE

ON

OFF

EOF TIMES

NOTES

#30

ON 141025

rainband

EOF 141237

ON 142030

the last rainband

EOF 142353

Can't rewind anymore

ON 142509

EOF 142548

#31

new rainband pass @ 10K ft.

ON 143021

~~EOF~~ 143356

ON 143507

EOF 144003

2-DC out 1837

decent to 1500'

ON 144300

EOF 1444

2-DP also crapped out

counter reads 104
when zeroed

OPERATOR BLACK

[illegible]