

Form J-2 Cloud Physics Project Scientist Operational Checklist

DATE 800805

AIRCRAFT 42RF

FLIGHT 1

A. INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson Williams	OK				
Nimbicometer	—				
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 & 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
 20-P - 03
 20-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

0452:30 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 @ 9:109

depolarizes signal is
sporadic

7:18 much graupel &
approaching eyewall

AK will miss windward,
eyewall
Tape recording is
continuous.

many 0 size particles

lost 2 DC at 7:50

7:58 2DC back on - maybe iced

on way is 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 - used

#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 eyewall in midst of 1st rainband.

9:56 EOT

2DC is on also.

#14

10:09:13 ON

10:10:50 off EOF

10:13 ON

10:17:10 EOT

through tunnel in eye 2-D-C out

in eyewall, 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.
eyewall

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

PMS LOG

DATA SYSTEM

800805 P. 3

ON

OFF

TAPE

ON

OFF

EOF TIMES

NOTES

TAPE 16

ON 10:47:55

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

EOF 10:54:45

ON 2

2DC back on again.

10:55:40

10:58:00 EOF

between rainband + eyewall in rainband #1

10:59:30 ON

EOT 10:01:30

#17

ON 11:40:07

inside 1st rainband, 20-c still on

EOF 11:16:30

ON 11:20:06

near eyewall

EOF 11:22:39

inside eye, heading for convective turret.

ON 11:24:40 - heading into turret

EOF 11:30 2-DC out 25:40

9

#18

ON 11:35:23

2DC out

11:36:30

2DC recovery in eyewall

EOT 11:42:00

in 1st rainband.

#19

ON 11:44:30

in rainband

EOF 11:48:40

in a turn at the end of a leg

ON 11:59:00

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

EOF 12:00:45

EOT imminent,

#20

ON 12:03:50

approach rainband #1

EOT 12:09:15

in eye wall

#21

ON 12:24:00

in big cell in eye

PMS LOG

DATA SYSTEM

ON

OFF

TAPE

ON

OFF

EOF TIMES

#21 EOF 122600

ON 122748

EOF 123200

#22

ON 124813

EOF 125320

#23

ON 125538

EOF 125653

ON 130339

EOF 130600 - off

#24

ON 131400

EOF 131920

25

ON 132145

EOF 132650

#26

ON 133000

EOF 133512

#27

ON 133725

EOF 134220

#28

ON 134936

EOF 134949

#29

ON 135157

EOF 140633

NOTES

in eye 2-OC ON + OK
in eyewall
outside of rainband

in eye wall

in eyewall again

in rainband pass = DAS updates continuously
tape end

continue rainband pass,

in eye @ ~ 1354
through eyewall.

PMS LOG

DATA SYSTEM PMS TIME IS 1.0 SEC SLOW FROM A/C DAS

ON OFF

TAPE ON OFF

EOF TIMES
30

NOTES

ON 141025
 EOF 141237
 ON 142030
 EOF 142353
 ON 142509
 EOF 142548

rainband
 the last rainband
 can't rewind anymore

31

new rainband pass @ 10K ft.

ON 143021
~~EOF~~ 143356
 ON 143507
 EOF 144003
 ON 144300
 EOF 1444

2-DC out 1837
 decent to 1500'
 2-DP also crapped out

