

17810911H1-CLZPHY

PMS - FORMVAR LOG

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CLOUD PHYSICS OPERATOR R.A. BLACK

KNOLLENBERG		FORMVAR			FRAME COUNT
TAPE #	AND EOF TIMES	ROLL #	TIME ON	OFF	AT START
1	on 061329 off 062234	0616	46-	2D-P	not not working properly - TA ~ 17°C TAS ~ 127
2	on 062234 off 063202	TAS ~ 120		T ~ 16°C	RA 1574
3	on 070130 off 071828	TAS 120		RA 1577	T 18°C in to "eye"
4	on 075730 off 081428	TAS 128,		T 17°C,	RA 1577, TRK, HOG 269.5/254
5	on 110100 EOF 110909 on 114545 off 120450	TAS 125,		T 22°C,	RA 1482, TRK 270 fr. eye
		110356		not much precip	
		inbound		TAS 130	TA 16.2 TRK 000° RA 1609
		not heading back,		missing the	heavy cloud

NOTES

not using format tonight shift register #7 bad

062900 - both probes have problems w/ bad diodes, 2D-P worse than 20-C
Precip probe acts up more in heavier precip than at other times.

Precip probe still (92100) crapps out too much in "heavy" rain.

DAS has been very warm all night.

114822 we turned in a rainband & are heading in to eye; will miss heavy convection. 115050 light precip.

Form J-2 Cloud Physics Project Scientist Operational Checklist

DATE 9/11/81

AIRCRAFT 42 RF

FLIGHT 810911H1

A.

INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson Williams	OK	OK	✓		
Nimbicrometer	OK	✓	✓		
Lyman Alpha	?				
U. V.	?				
dewpoint	?				
Foil Impactor	—	—	—		
Formvar	N/A	—	—		
Knollenberg					5 tapes
Raindrop	?	NG	NG		
Cloud Droplet	?	NG			
FSSP	OK	OK	OK		
Data System	OK	OK	OK		
& Displays	OK	OK	OK		
Ice Particle Counter	—				
Mee	—				
ERT	—				
CO ₂ Radiometer	OK	✓	✓		
Microwave Radiometer	OK	✓	✓		
Aerosol	—				
Filters	—				
Bulk Water	—				
INC	—				
CCN	—				

B.

REMARKS

2D-P worse than 2D-C for bad diodes. Precip probe is very poor. PMS log more detailed. Didn't use Formvar.