

790903I

19790903I1. CLDPHY

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790903I 43RF Cloud Physics Log
MARK POWELL

- 9-3-79 2248Z - takeoff from Eglin A.F.B.
2256Z - DuRoiut powered up systems.
2259Z - selected wave - freq. rate on 7011 no tape on yet
2300Z - looks like some of the diodes may be out on the cloud + precip probes
2322Z tape #1 started 29.79° 83.65W
~~next camera started rate 2/sec (?) off till over water (?)~~
1955 8° 26.8 79.7W 16Z
2324 - precip on ferry to storm
0000Z tape 1 done later pos. 27.25° 80.38W 2025Z
330° @ 10 kts
0004Z tape 2 on
0008Z looks like eye is reforming over water
000930Z foil turned on for 1st penetration, transp. malfunction light went on, I closed shutter then opened again it was closed only momentarily ~ 2 sec. then opened
0013 transp. light on + off eye is small ~ 6-7 mt. mi.
001730 foil turned off will put on again for run at lower altitude
0019 spectra images don't look good, will check with DuRoiut when can
fix 28°00' 80°35' ^{wind} _{marker fix}
0021 tape 2 finished
0025 tape 3 started
0042 it seems strange that 60-65 kt. winds extend so far south
0051 DuRoiut fixed ICS that was working poorly
~ 0053 tape 3 done
0057 tape 4 started
0105 pass adjacent to ^{eye down 25 mi 60 kts then 40 possibly a band} _{lowest pass} eye showed 968 mb moist convection on rt. side
0115 tape 4 done
0118 tape 5 started
0120 turn
0124 descending to 5000'

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0126 began run at 5000 ft 1550m

0131 foil on for 5 min @ 3000 ft

0134 tape 5 done

0137 tape 6 started foil shutter closed transp. off foil done

0150 tape 6 done

0153 tape 7 started

0157 spectra seems to be out Sullivan checking
spectrometer determined to be out FSS Print

0201 tape 7 done

0204 tape 8 started

0200 repositioning by tape lateral just E of North

0216 Dave says next pass may be at 1500'
we did not get to storm in time to use any daylight for vertical camera
high frame rate

0242 tape 8 done

0245 tape 9 started

0253 talked to Dave, flat press gradient mostly convection is on north side
of storm which should make sense

0258 tape 9 done

0301 tape 10 on but take off reel just a bit wobbly
tape not put on evenly enough

0306 according to 10000 ft

0319 tape 10 done

0323 tape 11 started while still observed in takeup, tape on even now

0333 tape 11 done

0336 tape 12 started

0351 turn

0400 tape 12 done

0405 tape 13 on

0415 tape 13 done

0418 tape 14 on

David
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0432 tape 14 done
0440 tape 15 on
0450 approx pos. 28 50 80 45 N Filtr. ~ 70%
0506 tape 15 done
0509 tape 16 started
0518 turn
0529 tape 16 finished
0533 tape 17 started turning to 270 for final storm fix
0541 turn S
0547 tape 17 done - ~~last tape~~
0552 tape 18 started on way back to MIA
0612 tape 18 finished ~~last tape~~
LAST TAPe

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Form I-2 Cloud Physics Project Scientist Operational CHECKLIST

M. Powell

DATE 9-3-79

AIRCRAFT 43 RF

FLIGHT 790903I

A. INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson Williams	✓	✓	✓		
Nimbliometer	NO	NO	—		
Lyman Alpha	NO	NO	—		
U. V.	NO	NO	—		
dewpoint	NO	NO	—		
Foil Impactor	✓	✓	✓		
Formvar	NO	NO	—		
Knollenberg	✓	✓	✓		
Raindrop	✓	✓	✓		
Cloud Droplet	✓	✓	✓		
FSSP	✓	NO	—		
Data System	✓	✓	✓		
& Displays	✓	✓	✓		
Ice Particle Counter					
Mee	NO	NO	—		
ERT	NO	NO	—		
CO ₂ Radiometer	NO	NO	—		
Microwave Radiometer	NO	NO	—		
Aerosol	NO	NO	—		
Filters	"	"	—		
Bulk Water	"	"	—		
INC	"	"	—		
CCN	"	"	—		

B.

REMARKS

DATE 9-3-79

FLIGHT 790903 I

STORM DAVID

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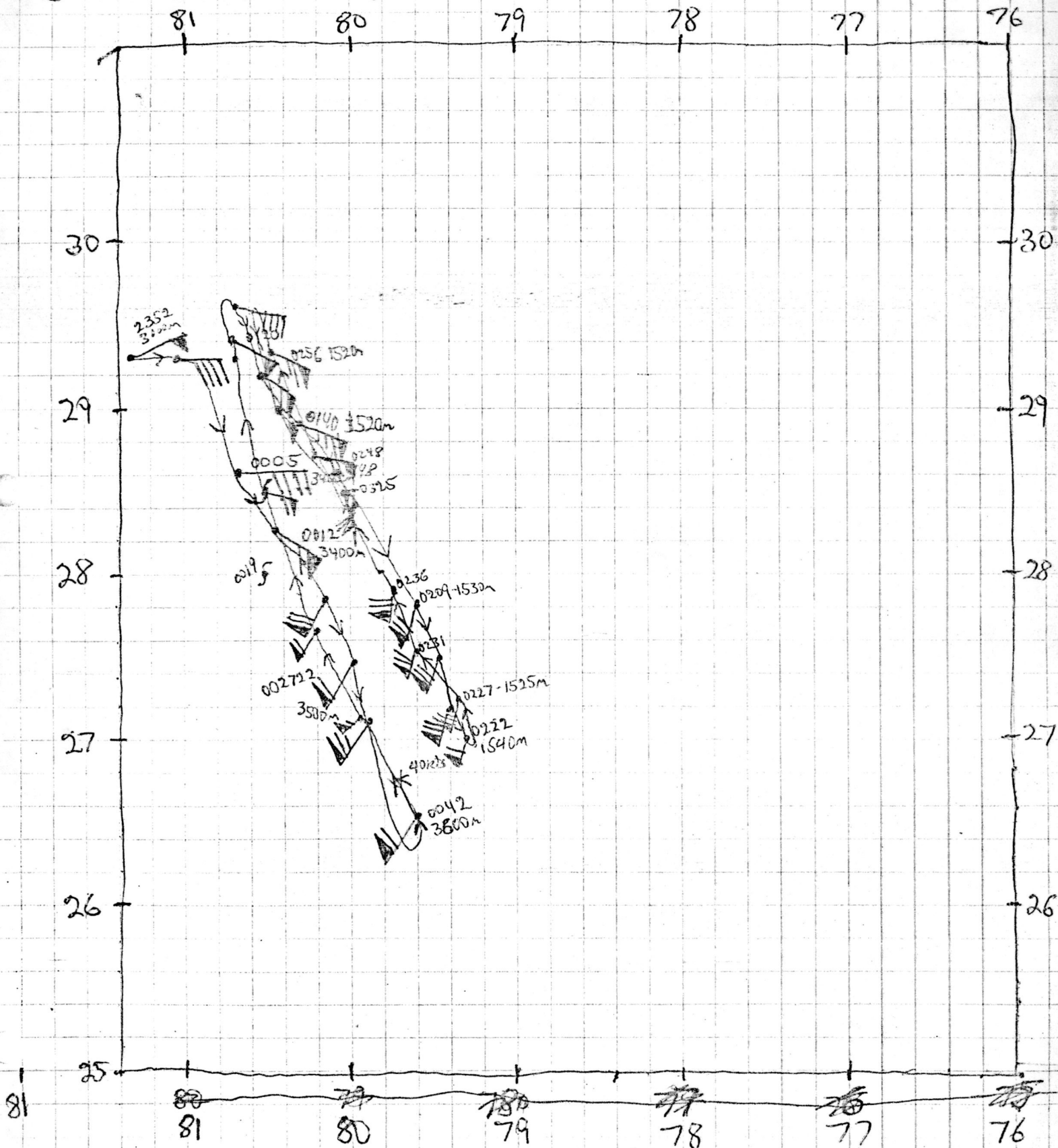
✓ FOIL MARKED AT SLOT AND COUNTER ZEROED ✓

OPERATOR MARK POWELL

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[illegible]

DAVID Plotting Sheet V2 M. Powell 790903I



DAVID Plotting sheet 2/2 M. Powell 790903Z

