

19810815H1-LPS

Form E-1
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On-board Lead Project Scientist Checklist

DATE 8/15/81

AIRCRAFT 42

FLT 810815H1

A. Participants

"DENWIS" RECO

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>JORGENSEN</u>	Gust Probe	<u>—</u>
Cloud Physics	<u>Frank Marques</u>	Omegasonde	<u>—</u>
AXB T	<u>—</u>	Sys Eng	<u>—</u>
Hot Film	<u>—</u>	Data Tech	<u>—</u>
Radar	<u>Marks / Mike Smith</u>	EI Tech	<u>—</u>
Flt Dir/Met	<u>Davis</u>	Other	<u>—</u>

Take Off 2215Z

Location Mic

Landing 0811 Location MIA

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>—</u>	<u>—</u>	<u>21.8</u>	<u>81.0</u>	<u>WA</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
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<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

C. Mission Briefing

Recco south of Cuba - Center ill defined and
maybe over land. Flight pattern will be "by ear"

D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	OK			
Radar	OK			
Cloud Physics	OK	cloud probe failed (stuck droplets)		
Data Sys	OK			
Omegasondes	—			
AXBT	—			
Gust Probe	—			
Hot Film	—			
Photography	OK			
	(night flight)			

REMARKS

No Doppler recording capability — will check analog display during flight for evaluation of tail doppler unit.

Will record LF/TA or WO/TA depending on quality of presentation (i.e. sea clutter)

No extensive 2-D Kwall recording will be done — a few tapes to check system out. (Save tapes for a better day)

DATE 810815 H1

FLIGHT 810815 H1

LPS ToRGewisen

23.3
81.25

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
Take off	2215	Mica	TRK - 180°
Convective band	2240	South of Mica	Trk 264 8ms' updraft
turn	2349	21.68 86.03	TRK 90 West End of Cuba
turn	0025	21.11 83.03	TRK 270 RA = 4472m
turn	0103	21.66 86.10	TRK -38.4°
turn	0129	23.21 84.76	TRK -65.6°
descent	015200	23.96 83.00	Descent to 1500 ft TRK 102.1
wind shift	023100	23.5 80.51	Center South of A.C 106/17
turn	0241	23.46 79.92	TRK -270
TURN/WIND SHIFT	024743	23.51 80.5	090/17 TRK 070
turn S	0306	24.5 80.5	TRK 180
turn	0322	23.52 80.49	Trk 5°
turn S	0340	25.50 80.5	Trk 174.5°
turn E	0357	23.5 80.40	TRK 90°
turn W	0412	23.49 79.97	TRK 270°
turn N	0427	23.52 80.5	TRK 10°
turn SW	0443	24.5 80.5	TRK 135°
turn E	0500	23.5 81.2	Trk 86°
turn NW	0527	23.5 79.9	Trk 316 wwd sit 80.9
turn SW	0546	24.45 80.93	TRK 180.3

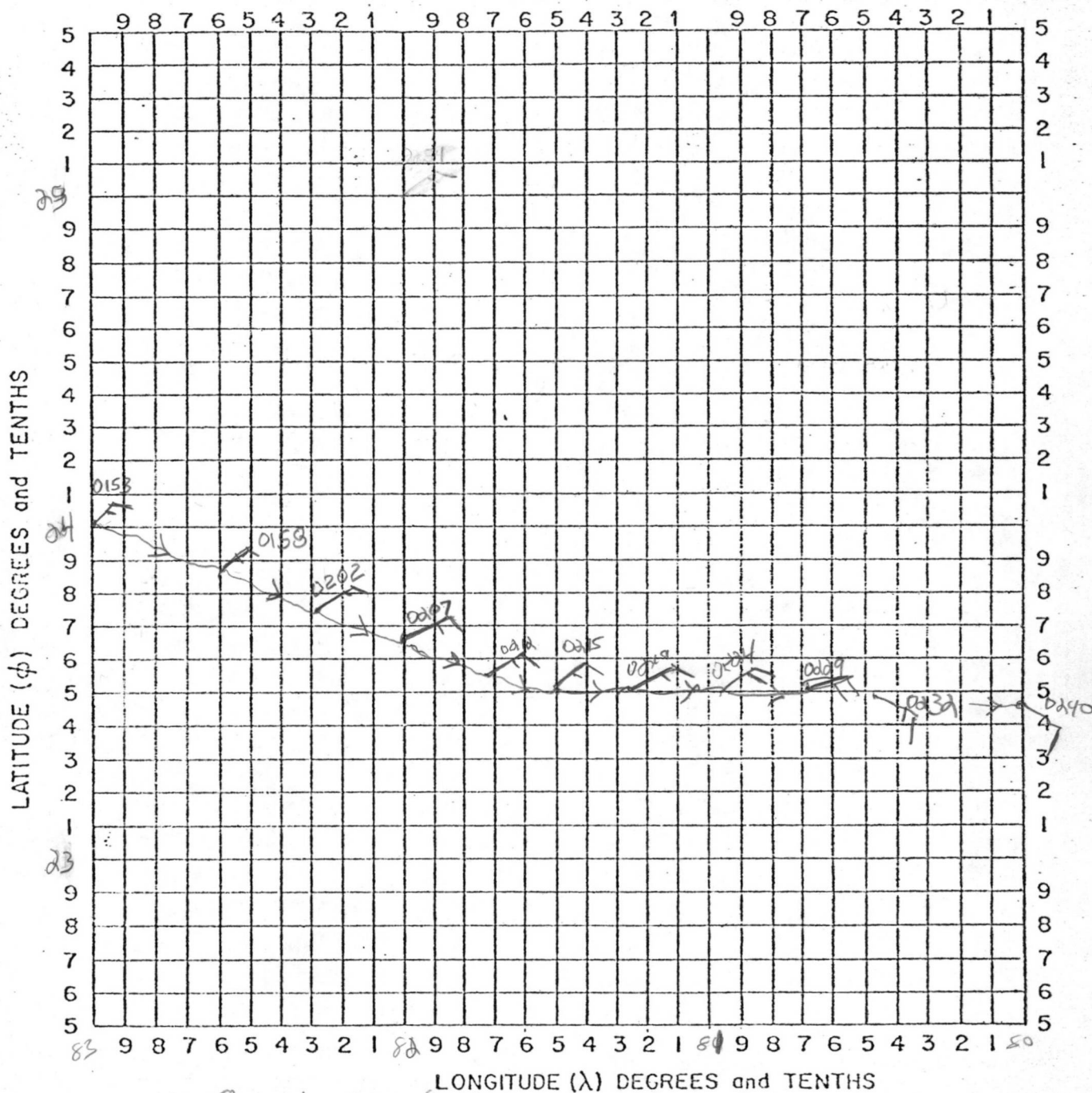
*Log times of all significant altitude changes, turns, and eye fixes

**New altitude, heading, center position, etc.

over →

<u>EVENT</u>	<u>TIME</u>	<u>POSITION</u>	<u>COMMENTS</u>
Turn W	0603	23.5 80.9	TRK 267.0
Turn E	0616	23.48 81.93	TRK 090
Wind shift	0629	23.4 91.14	
Lowest	Surface Press	so far 1000 mb	
Turn W	0645	23.41 80.19	TRK 270
Turn E	0713	82.2 23.5	TRK 290
Convection seems to be dissipating over water			
Turn W	0730	23.37 81.18	TRK 000
1000 mb Sfc P lowest to date			
<u>End Pattern climb 0745 Z</u>			

HURRICANE RECCO PLOTTING CHART



DATE 8/08/54 1560ff

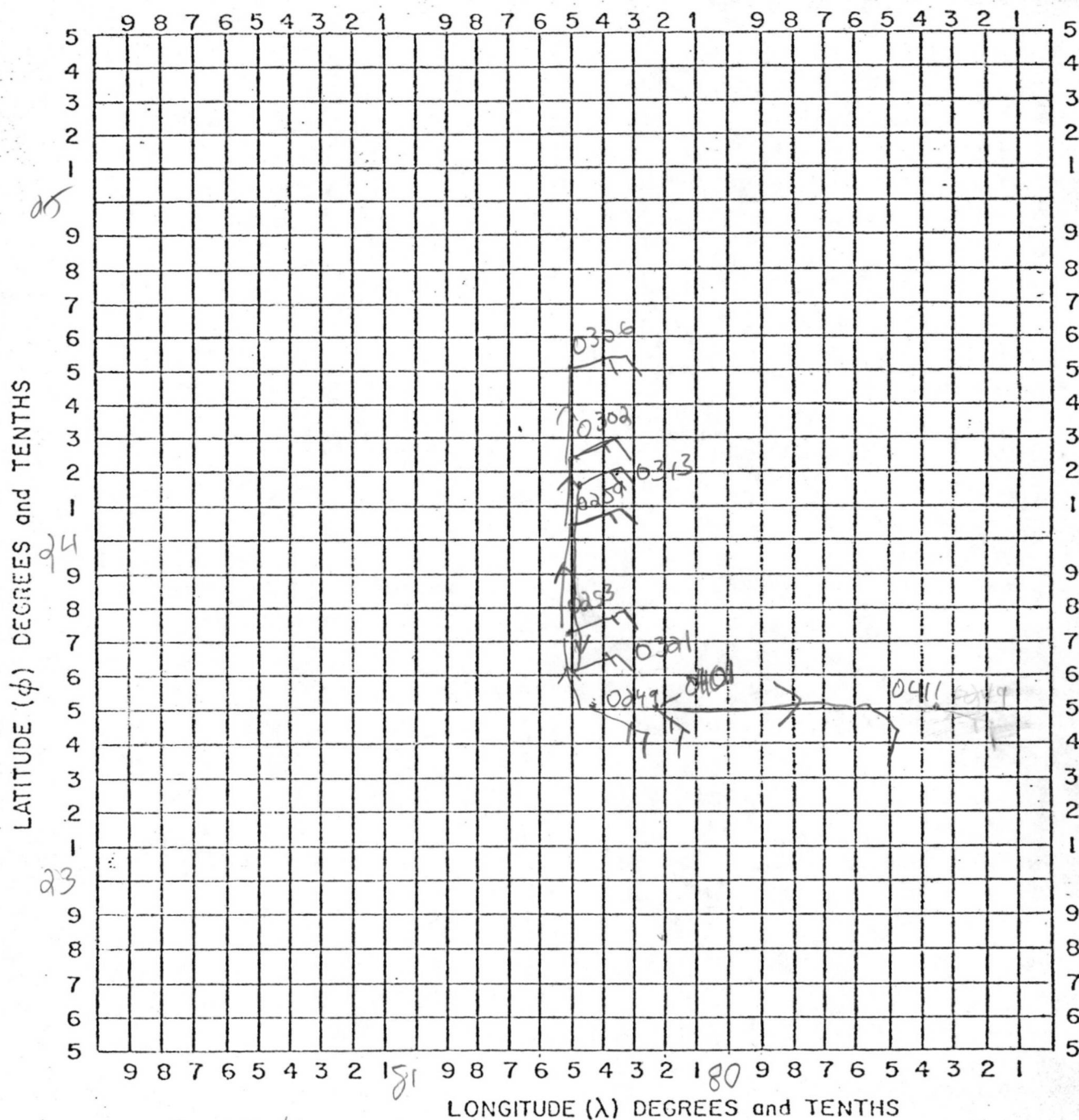
OBSERVER J. R. Gausew

①

m. 5'

NOTE: Label full degrees according to location of flight area

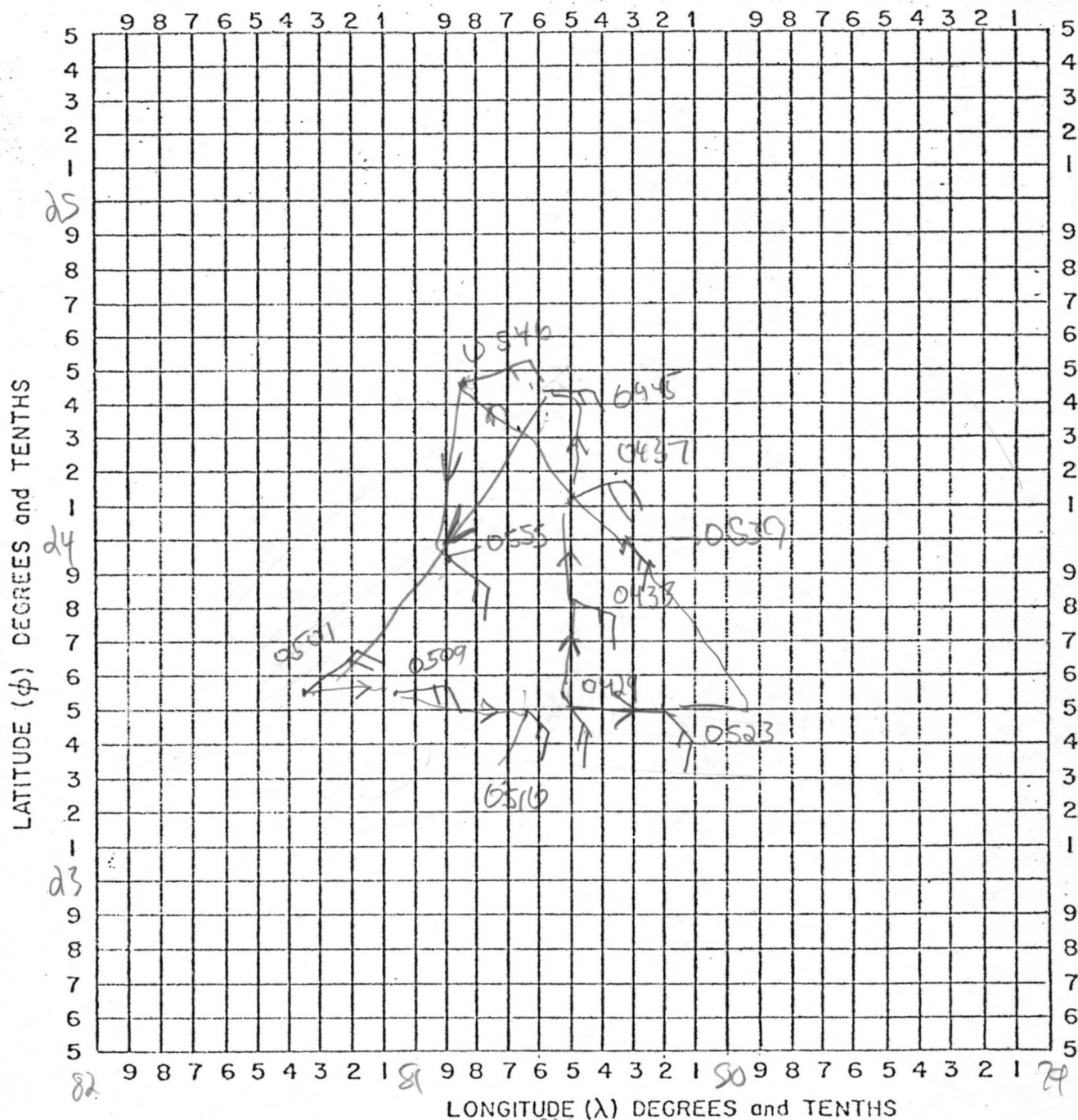
HURRICANE RECCO PLOTTING CHART



DATE 8/08/54
 OBSERVER JORGENSEN 1500 ft (2)

NOTE: Label full degrees according to location of flight area

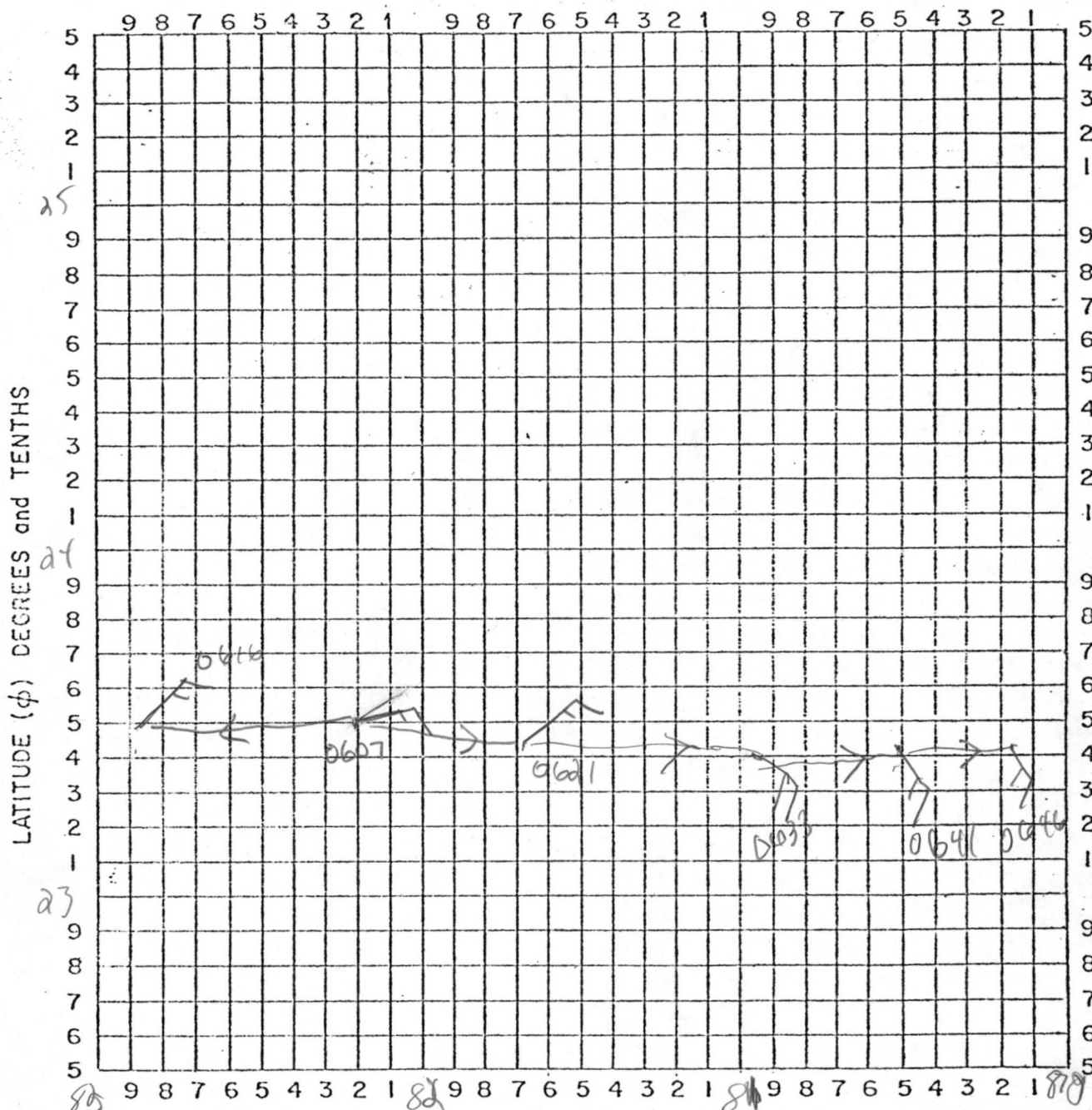
HURRICANE RECCO PLOTTING CHART



DATE 810815H DENNIS (3) 1500 ft
 OBSERVER JOE W. SPAN

NOTE: Label full degrees according to location of flight area *

HURRICANE RECCO PLOTTING CHART



DATE 8/10/81 (4) LONGITUDE (λ) DEGREES and TENTHS
 OBSERVER FORGENSEN DENNIS

NOTE: Label full degrees according to location of flight area

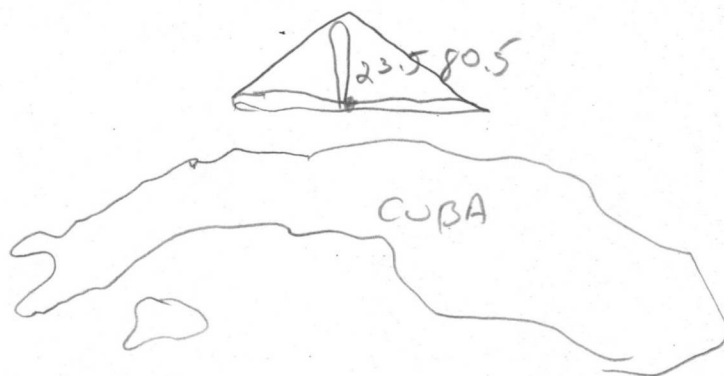
E. Proposed and Actual Flight Patterns

Trouble with Cuban A.T.C. have to go all the way around island.

2-DC Knullenberg Cloud probe failed at T.O.

Cuban A.T.C. will not allow track north of 21° and south of Cuba will attempt to fly racetrack along 21° W

New center report 23.3 81.25 north of Cuba - turn to 270° and go back the way we came



Much stratiform rain N and E of 23.5 80.5

Exceptional tail radar presentation

storm seems to be sliding west - 0500Z

Now North point 80.9

FLIGHT LOG

Date: 8/15/81

Flight Identification: 810815H

Aircraft: RFC 42

Departed: 2217Z

Arrived: 0810Z

Purpose: RECON TS PROVIDE 0000Z and 0600Z FIXES

Pattern: RECON SOUTH OF CUBA - CENTER ILL DEFINED AND MAYBE OVER LAND.
FLIGHT PATTERN WILL BE "BY EAR"

TAPE LOG

<u>TAPE TYPE</u>	<u>NUMBER</u>	<u>FROM [DAY/TIME (Z)]</u>	<u>TO [DAY/TIME (Z)]</u>
RFC Standard	1	2215Z	0810Z
Original	1	2215Z	0814Z
Knollenberg	5	N/A	N/A
OTHER			
VTR	3	220550Z	080146Z
RADAR	11	2224Z	0740Z

EQUIPMENT STATUS: 810815H

SYSTEM		STATUS / UP	DOWN	NOT USED	REMARKS
NAV	INE 1	X			USE INE 1 ; TO #1
	INE 2	X			
	ONE				
	DOPL				
RADAR	NOSE	X			NOSE DVIP OUT AT 00Z
	LF	X			
	TAIL	X			
	DATA SYSTEM	X			
RAMS	DATA SYSTEM	X			
	TOTAL TEMP. 1	X			
	TOTAL TEMP. 2	X			
	DEWPOINT	X			
	ATTACK ANGLE	X			
	SLIP ANGLE	X			
	ABS. PRESS.	X			
	DIFF. PRESS.	X			
	RADAR ALT.	X			
	J & W	X			
PMS	OAP 2DP	X			CLOUD PROBE FAILED (DIODE)
	OAP 2DC		X		
	FSSP 100	X			
	DATA SYSTEM	X			
IPC					
FOIL				X	
CO ₂ RADIOMETER		X			
MICROWAVE RADIOMETER		X			
SFC. RADIOMETER		X			
FORMWAR				X	
PHOTOGRAPHY	FWD	X			ALL PHOTOGRAPHY UP BUT NIGHT FLIGHT NOT USED.
	LS	X			
	RS	X			
	DWN	X			
	RADAR	X			
AXB	TUBES			X	
	RECEIVERS			X	
ODW				X	
SEEDER				X	