

19810910I-LPS

Form E-1
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On-board Lead Project Scientist Checklist

DATE 10 SEP 81

AIRCRAFT 43

FLT 810910I

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>WILLOUGHBY</u>	Gust Probe	<u> </u>
Cloud Physics	<u>WILGETT</u>	Omegasonde	<u> </u>
AXBT	<u> </u>	Sys Eng	<u> </u>
Hot Film	<u> </u>	Data Tech	<u>PATRICKS</u>
Radar	<u>GRIFFIN/SOURUP</u>	EI Tech	<u>GOLDSTEIN</u>
Flt Dir/Met	<u>HAYDA</u>	Other PILOTS	<u>GUNNOE/CENSLINGER</u>
		<u>NAV</u>	<u>NELSON</u>
Take Off <u>101936Z</u>	Location <u>MIA</u>	Landing	Location

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>10</u>	<u>0908</u>	<u>22°-58'</u>	<u>74°-29'</u>	<u>~1004</u>
<u>↓</u>	<u>1230</u>	<u>23°-28'</u>	<u>74°-20'</u>	<u> </u>
<u>↓</u>	<u>1456</u>	<u>24-01</u>	<u>74-30°</u>	<u>1000</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

C. Mission Briefing

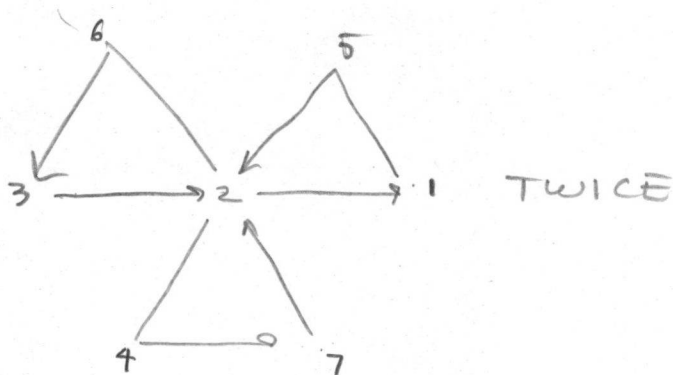
FLY MINIMUM OF 2 ⚡ GET 18,21,00Z FIXES AT 5000FT
RETURN MIA

D. Equipment Status

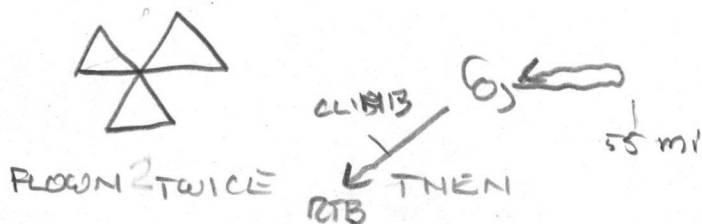
<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	↑	↑		
Radar	↑	↑ TAIL ↓	TAIL ↓	
Cloud Physics	↑	↑	↑	
Data Sys	↑	↑	↑	
Omegasondes	NOI3			
AXBT	NOI3			
Gust Probe	NOI3			
Hot Film	NOI3			
Photography	↑	↑	↑	

REMARKS A2 DRIVE ON TAIL RADAR DOWN
 ASDL ↓ EARLY IN FLIGHT
 DEWPOINTER BAD, TD HIGH INTERMITTENTLY

E. Proposed and Actual Flight Patterns

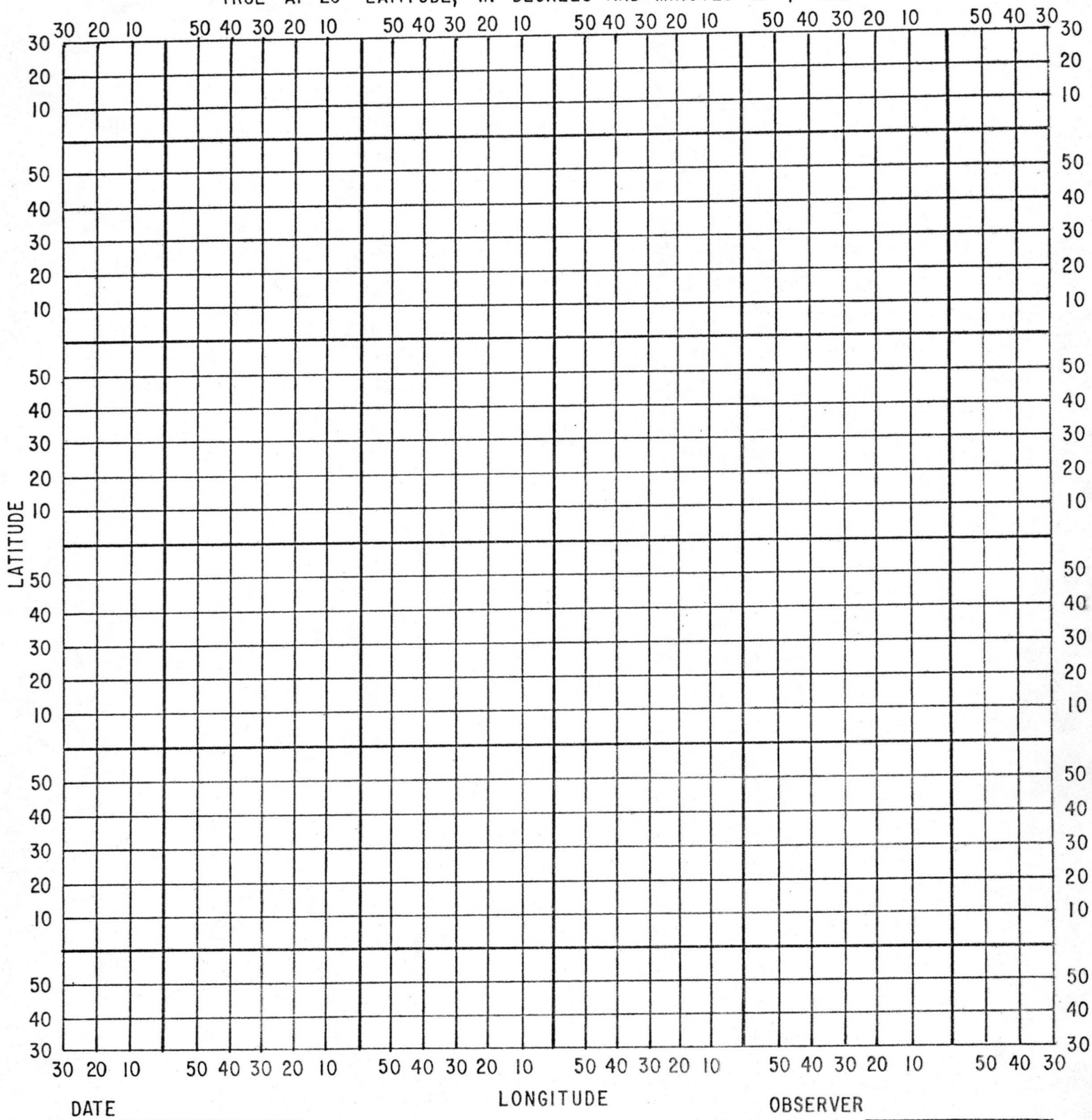


ACTUAL



HURRICANE RECCO PLOTTING CHART

TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



NOTE: Label full degrees according to location of flight area

DATE 10 SEP 81

FLIGHT 810910I

LPS WILLOUGHBY

18.4/1556
997/996

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
AIRBORNE	1936	MIA	
BEFORE CAL	1958	25.70 79.17	WINDS 295/3.9 HDNG 87.8
CAL	2002	25.72 78.94	WIND 170/1.2 HDNG 045
↓	2005	25.87 78.77	WIND 182/2.5, 227/2.2 HDNG 135
↓	2010	25.66 78.46	WIND 212/1.2, 250/2.4 HDNG 045
STEADY ON COURSE	2012	25.80 78.17	WINDS 255/2.1 WIND LOOKS HDNG 091 OK
	2043		ASDL ↓ AZIMUTH DRIVE IN TAIL RAD ↓
STORM ON RADAR	2050	25.57 75.16	DIST TO EYE 70 nmi POINT 3 WND 347/6.8 MIN SLP 850/1403
POINT 2	2103	25.34 74.10	
POINT 1	2123	25.64 74.78	TURN 330 HDNG FOR PT 5
POINT 5	2139		TURN BACK TO 2 TRACK 210
POINT 2	2155	25.79 74.09	TRACK TOWARD PT 4 993 MIN SLP
POINT 4	2216	24.67 74.75	TURN FOR PT 7 DESCEND TO 1500 FOR LASER RUN
CLIMB TO 5000 FT	2229		HAD 3 WIND! DURING LASER RUN
POINT 7	2237	24.70 73.13	TURN FOR POINT 2
POINT 2	2302	25.10 74.02	HEAD FOR 6 997 MIN SLP
POINT 6	~2320		HEAD FOR 3 START 1500' LASER RUN
CLIMB FL 50	2333		
POINT 3	2338	26-40 75-39	HEAD FOR ②
POINT ②	2358	26-45 73-85	LIGHTNING IN EYE WALL 995 HDNG FOR 1

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

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

FLIGHT LOG

Date: 9/10/81

Flight Identification: 810910I

Aircraft: RFC 43

Departed: 1925Z

Arrived: 0504Z

Purpose: LONG TERM MONITORING EXPER.

Pattern: COMPLETED BASIC PATTERN TWICE

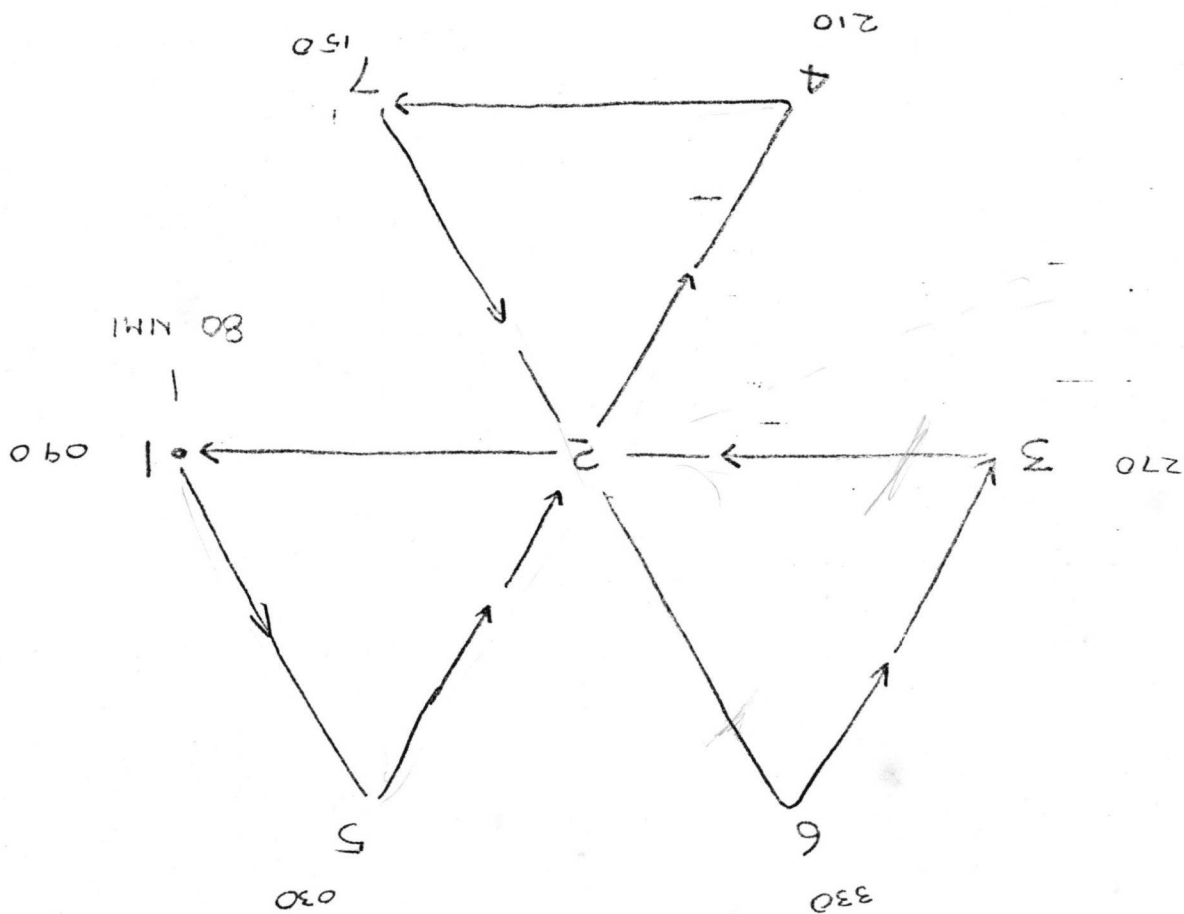
TAPE LOG

<u>TAPE TYPE</u>	<u>NUMBER</u>	<u>FROM [DAY/TIME (Z)]</u>	<u>TO [DAY/TIME (Z)]</u>
RFC Standard	1	1926	0504
Original	2	2220	N/A
Knollenberg	9	2116	0337
OTHER			
VTR	2	2055	0451
RADAR	2	2053	0427
ORIGINAL SLOW	1	1925	2904

EQUIPMENT STATUS:

<u>SYSTEM</u>		<u>STATUS / UP</u>	<u>DOWN</u>	<u>NOT USED</u>	<u>REMARKS</u>
NAV	INE 1	X			
	INE 2	X			
	ONE				
	DOPL				
RADAR	NOSE	X			
	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			
	OAP 2DC	X			
	FSSP 100	X			
	DATA SYSTEM	X			
IPC			X		
FOIL				X	
CO ₂ RADIOMETER		X			
MICROWAVE RADIOMETER		X			
SFC. RADIOMETER		X			
FORMWAR		X			
PHOTOGRAPHY	FWD	X			
	LS	X			
	RS	X			
	DWN	X			
	RADAR	X			
AXB	TUBES			X	
	RECEIVERS			X	
ODW				X	
SEEDER				X	

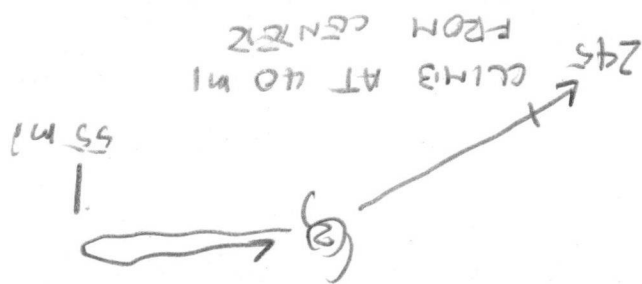
LONG-TERM MONITORING EXP



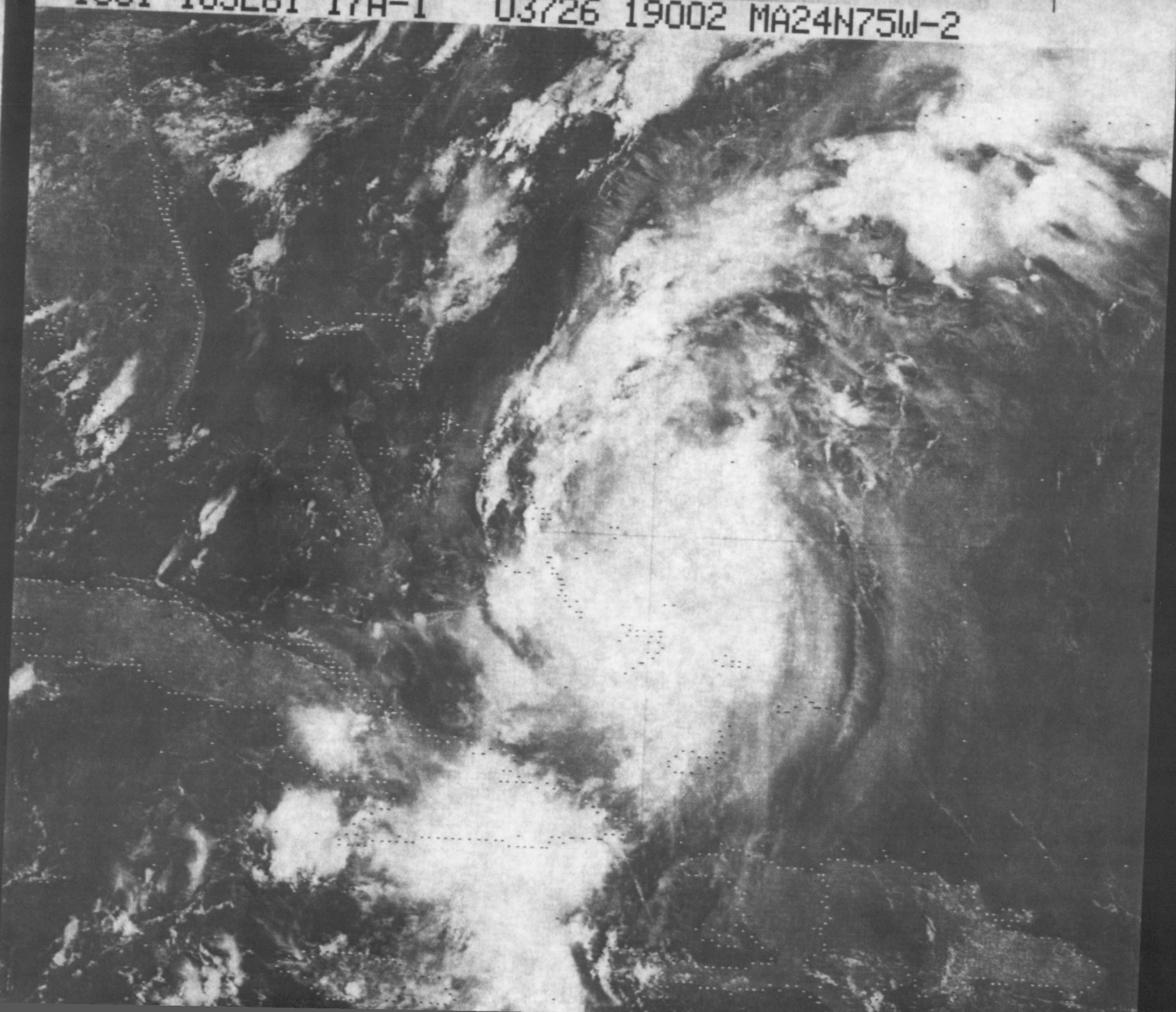
FOR P-3 REQUIRES 3 HR

FLY PATTERN TWICE 80 m. LBS

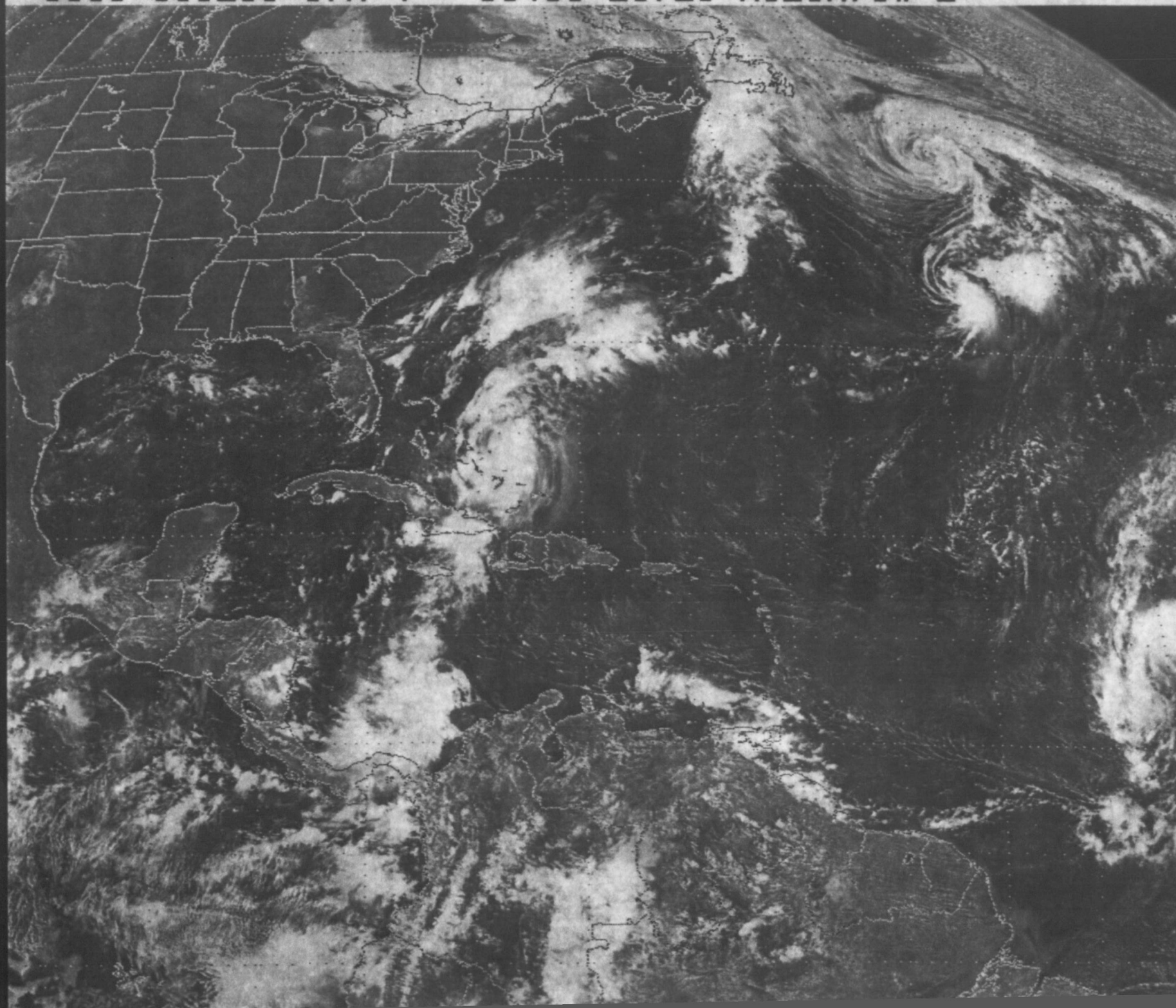
THEN



1501 10SE81 17A-1 03726 19002 MA24N75W-2



1531 10SE81 17A-4 01431 20721 MC20N70W-2



DATE 10 SEP 81

FLIGHT 810910

LPS W/ LLOU & H13

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
PT 1	110021	26.47 72.16	TURN NW FOR POINT 5
PT 5	0043		TURN SW FOR POINT ②
	0051	27.37 73.38	SECONDARY WIND MAX 35 nm FROM ③
PT ②	0102	26.73 73.76	MIN SLO 995 HDNG FOR 4 MAX WND 55 KT
PT 4	0121		HDNG FOR 7
PT 7	0140	25.60 72.80	TURN FOR ②
PT ②	0203	26.96 73.67	HDNG FOR 6 75 KT 995
PT 6	0225	28.21 74.45	
PT 3	0244	27.73 73.30	HDNG FOR ② 994
PT 2	0303	27.23 73.50	HDNG FOR 1 994 MIN SLP
PT 1 52 nm FROM ③	0315		TURN BACK TO ②
PT ②	0327	27.31 73.44	DEPART STORM TRACK OUT 246 AT 5000
START CLIMB	0337	27.03 74.18	
BEFORE CAL	0349		247/8.4 TK 246
TURN TO 289	0350		WIND 268/8.9 TK 290
TURN TO 200	0353		WIND 250/6.8 TK 200
TURN TO 290	0359		WIND 255/8.2
STEADY AFTER CALL ON 242	0403		WIND 230/3.9
BIMINI	0440	26.08 79.16	INS ERROR 23' N, 7'E
LAND MIA	110504	26.10 80.14	TERM ERR LAT -14.1 -23.7 +14.4 +9.7

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

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

DATE _____

FLIGHT _____

LPS_____

Lead Project Scientist Event Log

[illegible]

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

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