19880909HI-LPS

Florence
9 Sept 1988

E.2 Lead Project Scientist (On-Board)

E.2.1 Preflight

JM 1. Participate in general mission briefing.

JM 2. Determine specific mission and flight requirements for assigned aircraft.

JM 3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with OAO flight director/meteorologist and CARCAH unless briefed otherwise by field program director.

JM 4. Contact HRD members of crew to:

a. Assure availability for mission.
b. Arrange ground transportation schedule when deployed.
c. Determine equipment status.

JM 5. Meet with OAO flight crew at least 90 minutes before takeoff, provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.

JM 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami or FGOC at remote recovery location).

E.2.2 In-Flight

JM 1. Confirm from OAO flight director/meteorologist that satellite data link is operative (information).

NA 2. Confirm camera mode of operation.

JM 3. Confirm data recording rate.

JM 4. Complete Form E-2.

E.2.3 Postflight

JM 1. Debrief scientific crew.

_____ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).

_____ 3. Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the OAO flight director.]

_____ 4. Determine next mission status, if any, and brief crews as necessary.

_____ 5. Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

On-Board Lead Project Scientist Check List

Date 9 Sept 1988 Aircraft 42RF Flight ID 880909H1

A. Participants

HRD Function	HRD Participant	OAO Function	OAO Participant
Lead Proj. Sci.	Marks	Flight Director	Damiano
Cloud Physics	—	Pilots	Eilers/Laydon (Ticnor)
Radar	Dorst	Navigator	Nokutis
Doppler	Gamache	Sys. Engr.	(Moore)
Photographer	—	Data Tech.	Gonzalez
Omegasonde	—	El. Tech.	Dugranrut
AXBT/AXCP	—	Other	Roles

Take-Off Location MIA Landing Location

B. Past and Forecast Storm Locations

	Date/Time	Latitude	Longitude	MSLP	Max. Wind
	9/9 1121Z	26.1	89.2	988	64 kts
	9/9 1722Z	27.5	89.1		50 kts
43RF	9/9 1811Z	27.6	89.2	986	70 kts

C. Mission Briefing

SSM/I intercomparison at 2300Z and long-term monitoring. Coordinate SSM/I with 43 RF

D. Equipment Status

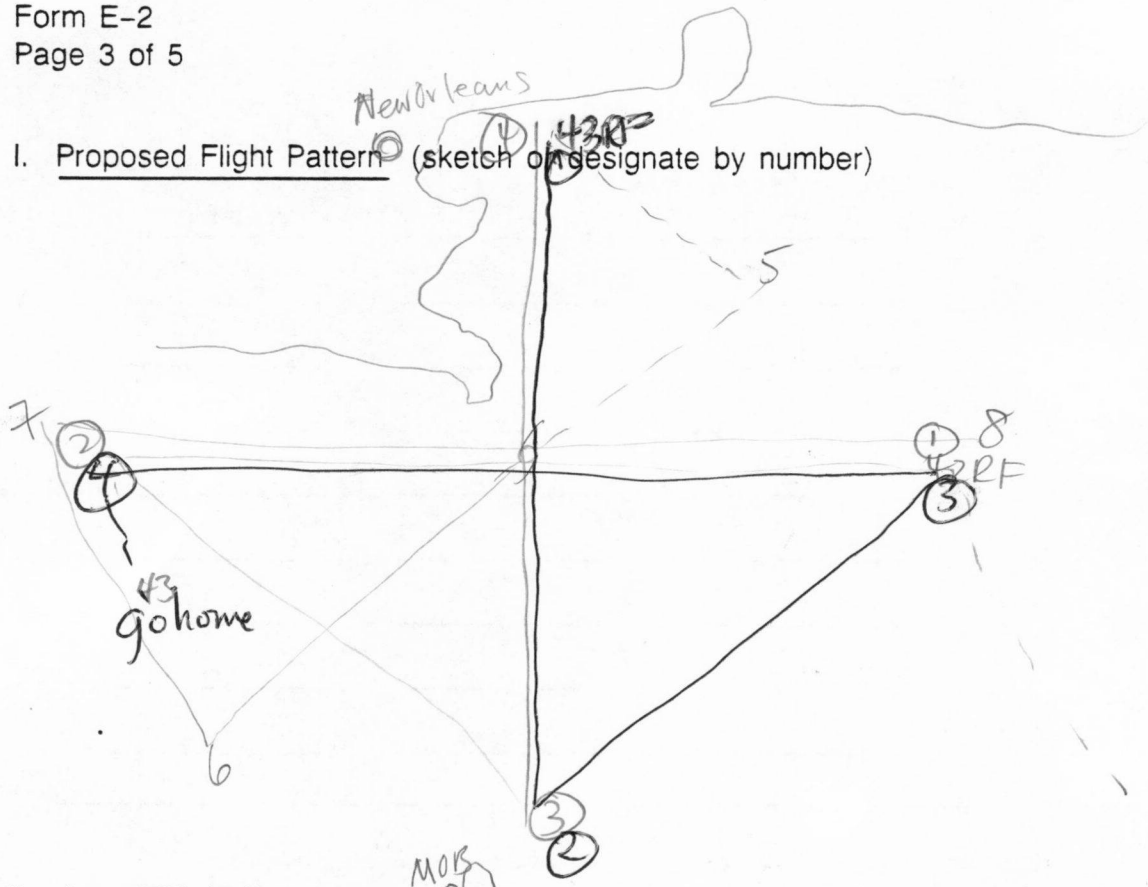
Equipment	Pre-Flight	In-Flight	Post-Flight	Tapes	
Aircraft	Jm	Jm	Jm		
Radar	Jm	Jm	Jm	14	
Cloud physics	—	—	—	—	
Data system	Jm	Jm	Jm	1	Down Radar out whole flight
Omegasondes	—	—	—		
AXBT/AXCP	—	—	—		
Doppler	Jm	Jm	Jm	9	
Photography	—	—	—		

REMARKS: Down Radiometer out whole flight.

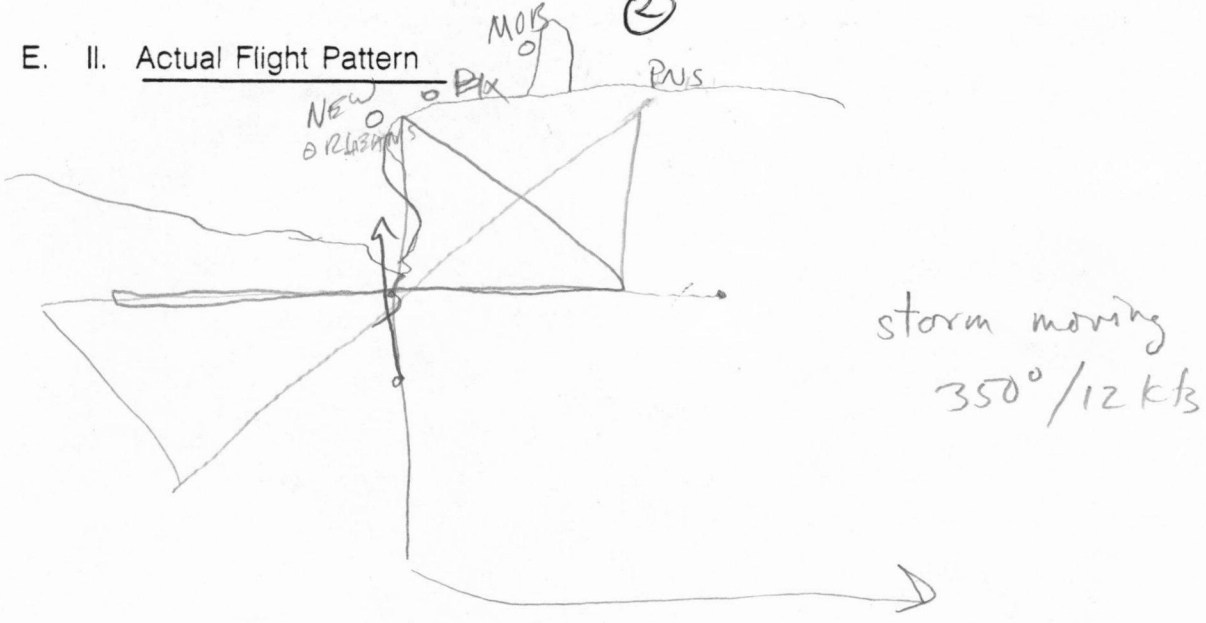
~2240 Dugan rpt says TA R/T video has a problem causing problems with output to DVIP (maybe like Norbert)

0024 TA R/T off, DuG working on it (didn't lose much good data)
0058 TA R/T up
~0210 TA R/T off DuG working on it
0240 TA R/T up (didn't lose much good data)

E. I. Proposed Flight Pattern (sketch or designate by number)



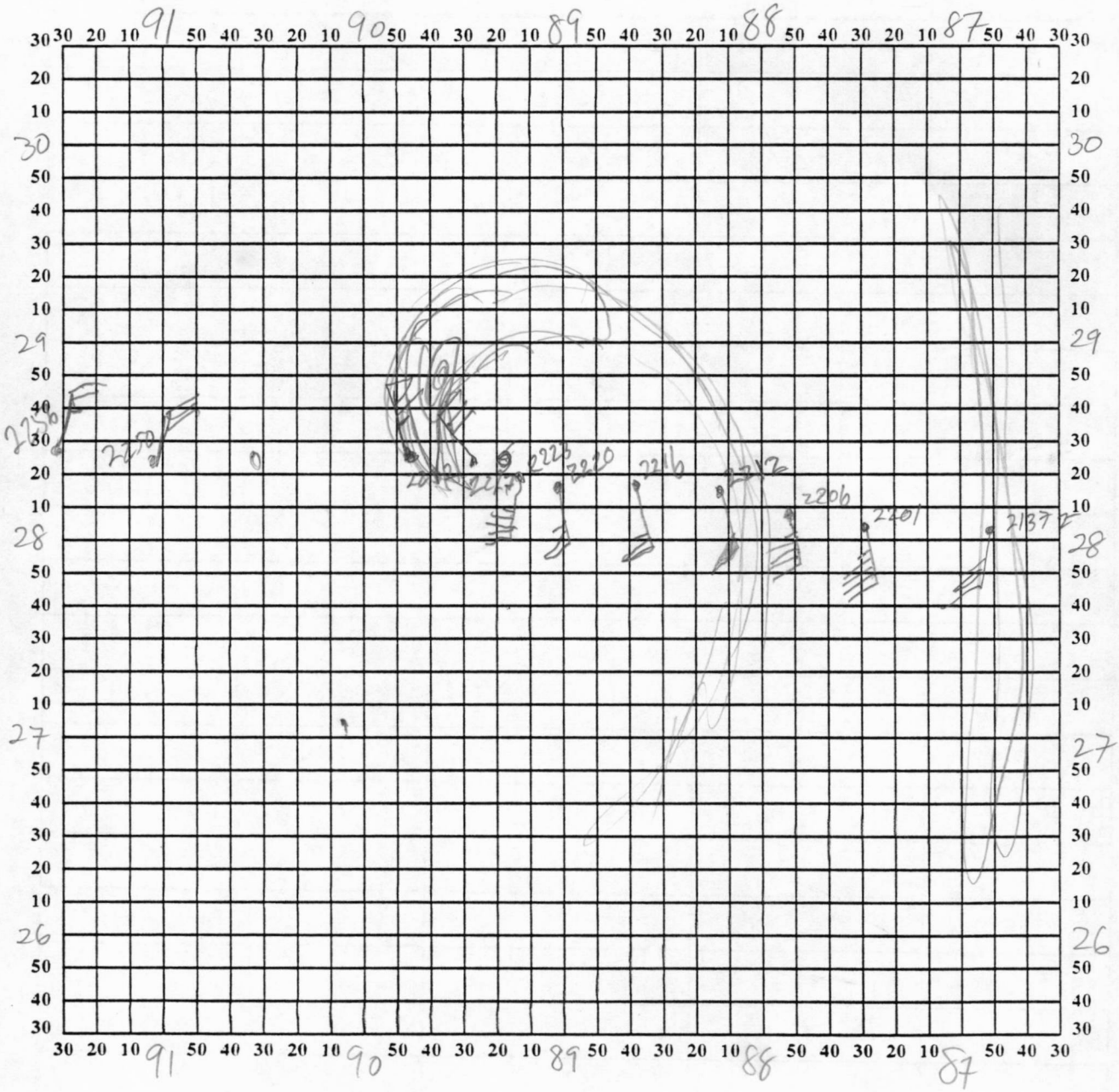
E. II. Actual Flight Pattern



Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes of ϕ and λ.

Date 9/9/88 Longitude 880909 #I Observer Marks



Note: Label full degrees according to location of flight area.

Lead Project Scientist Event Log

Date ________________ Flight ________________ LPS ________________

Time	Event	Position	Comments

Form E-2
Page 5 of 5

0340 Z

120 nm
28-30 miles
(1)

Lead Project Scientist Event Log

Date 9/9/88 Flight 880909 #1 LPS Marty

Time	Event	Position	Comments
200828	TO	MIA 25°47" 80°17"	NO Loran-C
			ETA 29° N 87° W IP 2140 Z
			est. 00Z position 28°48" 28.8 89°15" 89.25
2030			talk to Paul pass on 28
			coordinating information
			45°
2130	start descent to 5000' to IP		IP 28° 87°
2149	start descent to		
	1500'		
			43RF ETA 6 2213
215318	1500' TK 270°	28°2' 86°54"	42RF ETA 6 2224
			11 min separation in time
221500			42RF in 6 outbound
	hint of a clearing in eye		28°21" 89°25" 987mb
	tucked up against W. eyewall		6 open to SE 985mb
2225	6	28°25" 89°25"	
2358	TURN TK 140°	28°24" 91°44"	

120
185
222km
13 700
185

8883
8750
1.33

44
1.85
93
555
1665

93 mi
172km

(2)

Lead Project Scientist Event Log

Date 9/9/88 Flight 880909H1 LPS Marks

Time	Event	Position	Comments
2310	42RF ⊙	28°27' 89°23'	982mb
2316	Turn TK 050° to ⊙	27°32' 90°53'	outside turn
2347	⊙	28°33' 89°22.5'	984mb
001911	TURN TK 180°	29°56' 87°34.5'	outside turn
0024			Took TA R/T down
004020	TURN TK 270°	28°48' 87°36'	outside turn
			south of the center open
004939		28°57' 88°11.4'	Can see twilight through
			stratus S of ⊙
0058			TA R/T up Thank god
			for Du Grant
0106	⊙	28°45' 89°22'	
0131	Turn TK 270° to ⊙	28°45' 91°19'	180° turn
0202	⊙	28°57' 89°23'	984mb
~0210			TA R/T problems (overheating)
022530	Turn TK 315°	28°57' 87°50'	~90nm E of ⊙ [illegible]
~0240			TA R/T up again

Form E-2
Page 5 of 5

③

Lead Project Scientist Event Log

Date 9 Sept. 1988 Flight 880909 H1 LPS Marks

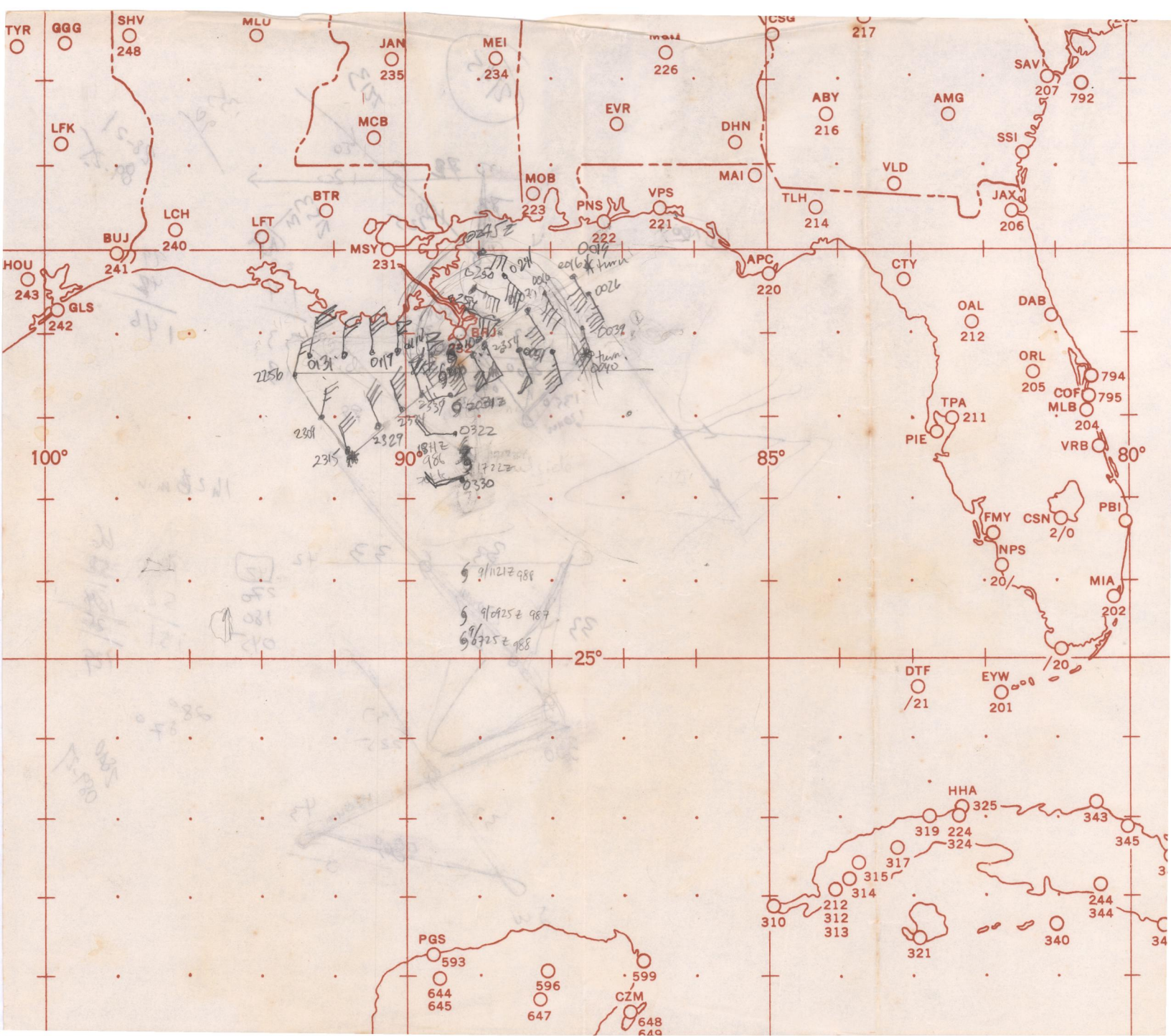
0242 good LF display

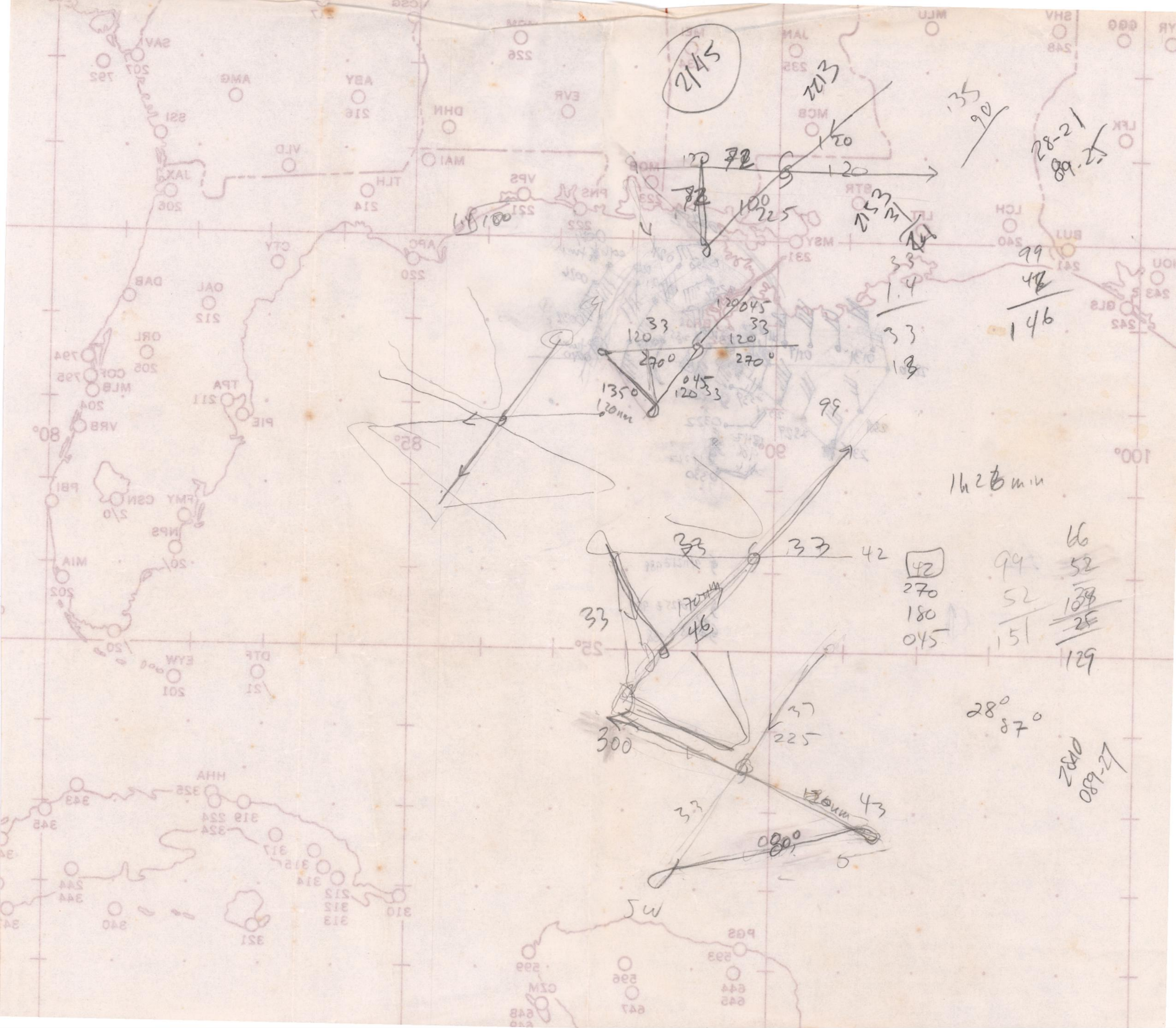
Time	Event	Position	Comments
024430	Turn TK 180°	29°53'N 88°58'W	tk 180° along 89°W
			along coast
~0259	G	~29°06" ~89°30"	as close as possible
0330	Climb to MIA	27°15" 89°12"	~100 nmi S of G

Lead Project Scientist Event Log

Date ________________ Flight ________________ LPS ________________

Time	Event	Position	Comments


TYR
GGG
SHV
248
MLU
JAN
235
MEI
234
226
CSG
217
SAV
207
792
ABY
216
AMG
EVR
DHN
LFK
MCB
SSI
VLD
MAI
MOB
223
BTR
VPS
221
TLH
214
JAX
206
LCH
240
LFT
PNS
222
BUJ
241
MSY
231
APC
220
CTY
HOU
243
GLS
242
OAL
212
DAB
ORL
205
794
COF
795
MLB
204
TPA
211
PIE
VRB
100°
90°
85°
80°
FMY
CSN
2/0
PBI
NPS
20/
MIA
202
/20
25°
DTF
/21
EYW
201
HHA
325
319
224
324
343
345
317
315
314
212
312
313
310
244
344
340
321
PGS
593
644
645
596
647
599
CZM
648
649


2145
2213
135
90
28-21
89.25
120
225
270°
045
1626 min
42
270
180
045
28°
87°
2810
089-27
300
080°
SW