

19831008TI-LPS

E.1 Lead Project Scientist (On-Board)

The on-board lead project scientists are responsible for carrying out the scientific mission of their assigned aircraft. (Check off and initial when completed.)

E.1.1 Preflight

- ☒ 1. Participate in general mission briefing.
- ☒ 2. Determine specific mission and flight requirements for assigned aircraft.
- ☒ 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.
- ☒ 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- ☒ 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.
- ☒ 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center.

E.1.2 In-Flight

- ☒ 1. Confirm from OAO flight director/meteorologist that satellite data link is operative (information).
- ☒ 2. Confirm camera mode of operation.
- ☒ 3. Confirm data recording rate.
- ☒ 4. Complete form E-1.

29.1.180012891

E.1.3 Postflight

1. Debrief scientific crew.
2. Report landing time, aircraft, crew and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to HRD operations center.
3. Gather completed forms for mission and turn in at the operations center.
4. Determine next mission status, if any, and brief crews as necessary.
5. Notify operations center as to where you can be contacted and arrange for any further coordination required.

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On-board Lead Project Scientist Checklist

DATE 8 Oct. 85 AIRCRAFT Y3RF FLT 851008I1

A. Participants Turner/Genzlinger Secretan Fluery

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Marlin</u>	Gust Probe	
Cloud Physics	<u>Willis</u>	Omegasonde	
AXBT/AXCP		Sys Eng	<u>Schricker</u>
Hot Film		Data Tech	<u>Stone/Gonzalez</u>
Radar	<u>Dodge/Lord</u>	EI Tech	
Flt Dir/Met	<u>Parri3h</u>	Other	<u>Gamaeche/Stossmeister</u>

Take Off 161545 Location MIA Landing 013045 Location MIA
25.8, 80.29 ramp 26.8 80.91

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>10/08</u>	<u>1207Z</u>	<u>25° 08"</u>	<u>71° 29"</u>	<u>1003</u>
	<u>0505Z</u>	<u>24° 14"</u>	<u>70° 59"</u>	<u>1004</u>
<u>10/08</u>	<u>1800Z</u>	<u>~25.5</u>	<u>~72°</u>	

C. Mission Briefing

see sketch
Ramband Mission

feed ODW box of ch. 2 | tape left on board Y3RF | 15 600 | 42
 21 1200 | 15
 23 2400 | 11

D. Equipment Status

Equipment	Pre Flt	In Flt	Post Flt	Reports Collected	Tapes
Aircraft	✓	✓	✓	✓	
Radar	✓	✓	✓	✓✓✓	11 (Doppl 15)
Cloud Physics	✓	✓ 2D-P stuck diode part of the time	✓	✓	42
Data Sys	✓	✓	✓	✓	
Omegasondes	✓	✓	✓	✓	2 dropped
AXBT/AXCP					
Gust Probe					
Hot Film					
Photography	2/11				
<u>SFMR</u>	✓	✓	✓		

Radar - DSC 2 down
DSC 1 had problems we didn't take radar data until 1833Z because of problems
Cloud phys - 2D-P stuck diode

E. Proposed and Actual Flight Patterns (Identify by number and type - give reason for modification)

proposed


actual


see fig attached for actual FL track

T.S. ISABEL

DATE 8 Oct. 1985

FLIGHT 851008I1

LPS MARKS

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
TO	161545	25.79 80.28	9L
IP	1726	25.8 75.0	~60nm E of G ←
	1733	28.81 75	do. frn anspeed calib. end frn anspeed calib. 1733 problem with RDSC
	1809	26.27 72.45	down to 5kft.
G	1815	26.54 72.25	999mb 26.28 72.08 999mb
2	1832	26.17 71.14	turn back G
G	184943	26.72 72.28	turn N thru band.
1	191709	28.33 72.25	turn east ~100nm N of center
IP	1947	28.3 71.5	
	1947	28.27 71.8	start ascent to ~20kft.
3895m	1955	28.38 71.36	turn around finish ascent
5137m	200336	28.47 72.05	

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

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

(2)

DATE 8 Oct. 1985

FLIGHT 851008 I

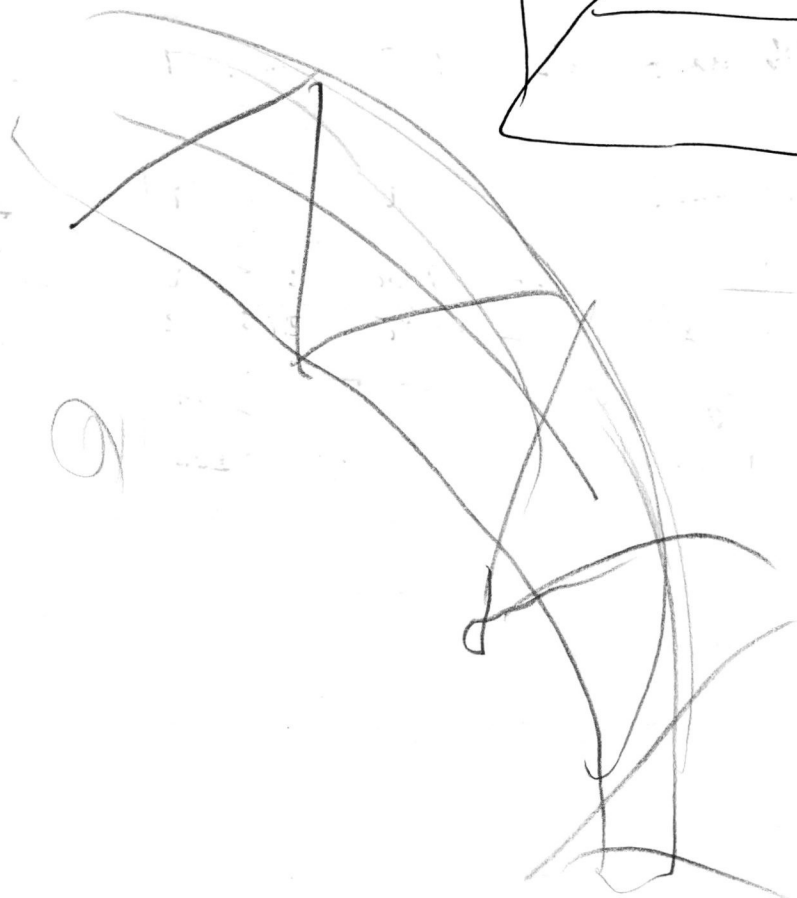
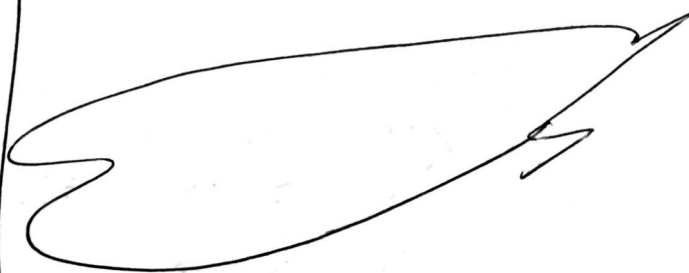
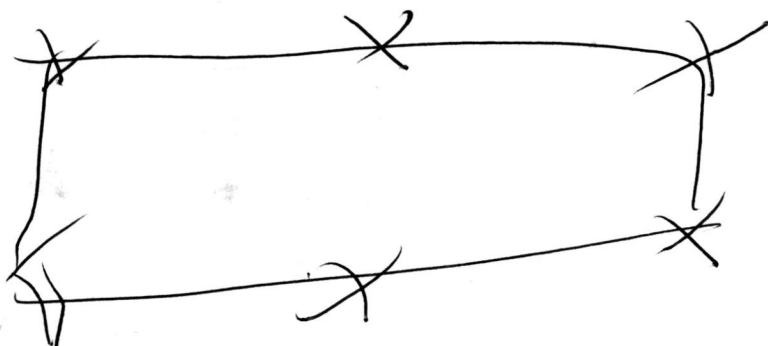
LPS Markus

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
	2003-2015		waiting for clearance at 545 mb
	2015	25.58 72.12	descend to 10 kft
1	202312	28.61 71.6	at 10 kft at ^{box} point 1
2	202548	28.62 71.69	roll out
2	203135	28.25 71.68	turn go east
3	204105	28.28 72.36	turn go north
4	205107	28.8 72.33	head east expand boxes
1	210817	28.89 71.4	head S to a point ins. de the next band.
2	2129	27.74 71.54	descend to 5 kft.
2	2134	27.77 71.61	at 5 kft heading W
3	214620	27.78 72.18	outside turn N
	2149		roll out
4	2212	29.13 72.82	outside turn to head east
1	2237	29.13 71.45	turn S

80 mi
2106 Z
26.9
72.19
998 mb
425 ft
nice
and clear
in side the
band.

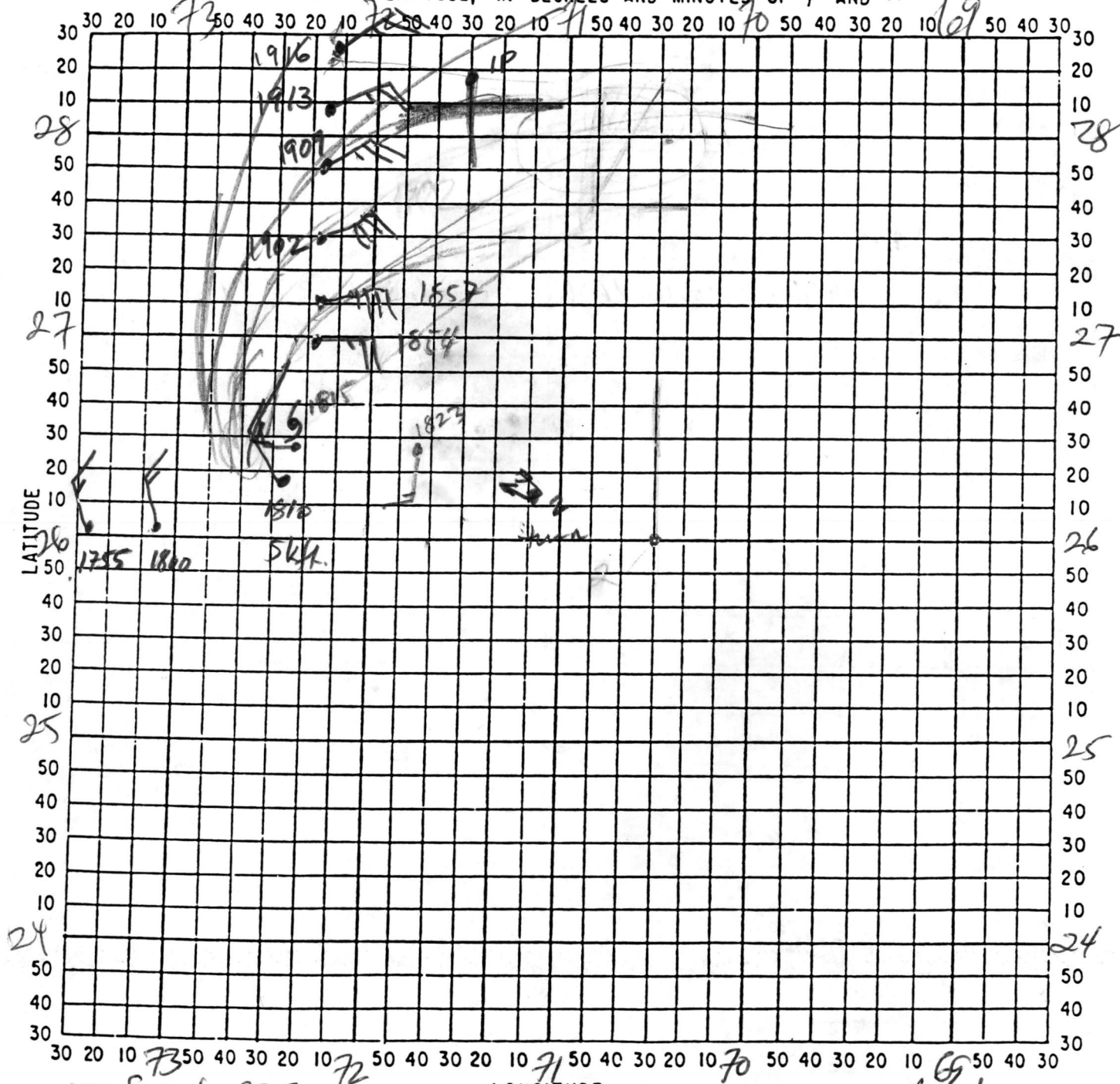
*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.



(1)

HURRICANE RECCO PLOTTING CHART

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



DATE 8 Oct 1985

LONGITUDE

OBSERVER Marky

851008J1

ISABEL

NOTE: Lobe: full degrees according to location of flight area

DATE 8 Oct 1985

FLIGHT 85100821

LPS Markus

(3)

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
2	2257	28.08 71.48	
	230028	28.08 71.51	climb from 5 kft.
	231950	28.10 71.56	507.7 mb 5749 m
Drop #1	232307	28.12 71.62	507.6 mb 5743 m 150/48 knots
	2332 turn		-5.6(T) -7.2(Td)
Drop #2	233500	28.07 72.44	502.8 5725 150/38 knots
			-4.2(T) -2.9(Td)
	2337	28.14, 72.32	descend to 5 kft
	2350	27.99 72.35	5 kft S → G
6	000445	27.13 72.43	track W 999 mb
			out of center
	0012	27.07 72.99	do wind speed calib.
	0016	27.12 72.91	climb to home
land	015045		land

looks squinty winds OK

42RF
27°05" ~ 2350
72°42" ±
1001 mb

*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.

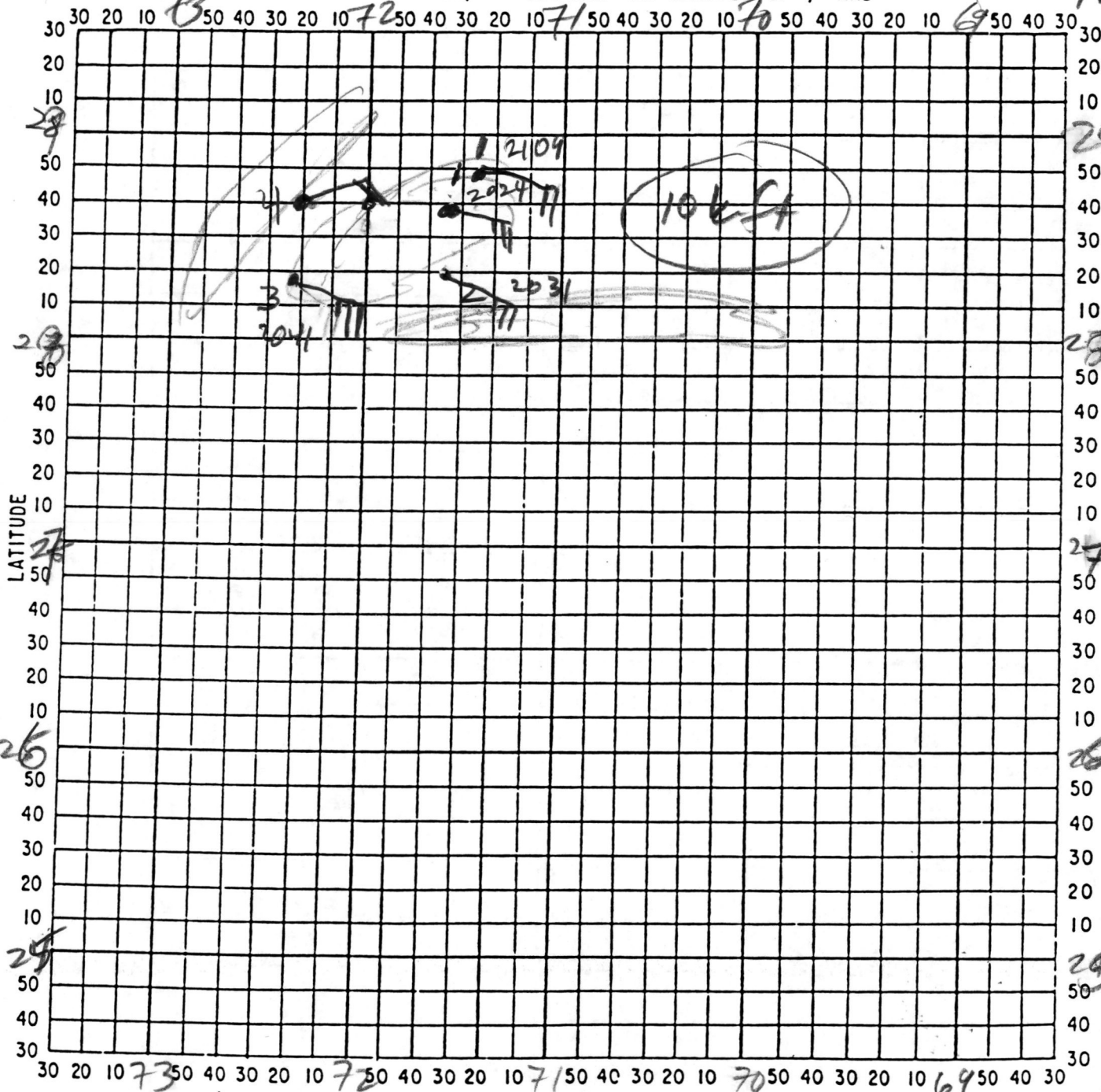
1360

(2)

HURRICANE RECCO PLOTTING CHART

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

28.66
72.00



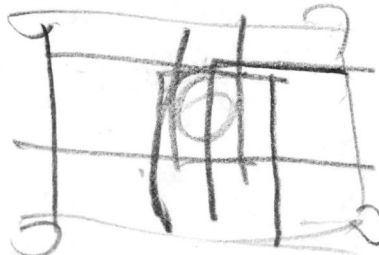
DATE 08 Oct 1985

LONGITUDE

OBSERVER Maules

NOTE: Label full degrees according to location of flight area

ISABEL



DATE _____

FLIGHT _____

LPS _____

Lead Project Scientist Event Log

[illegible]

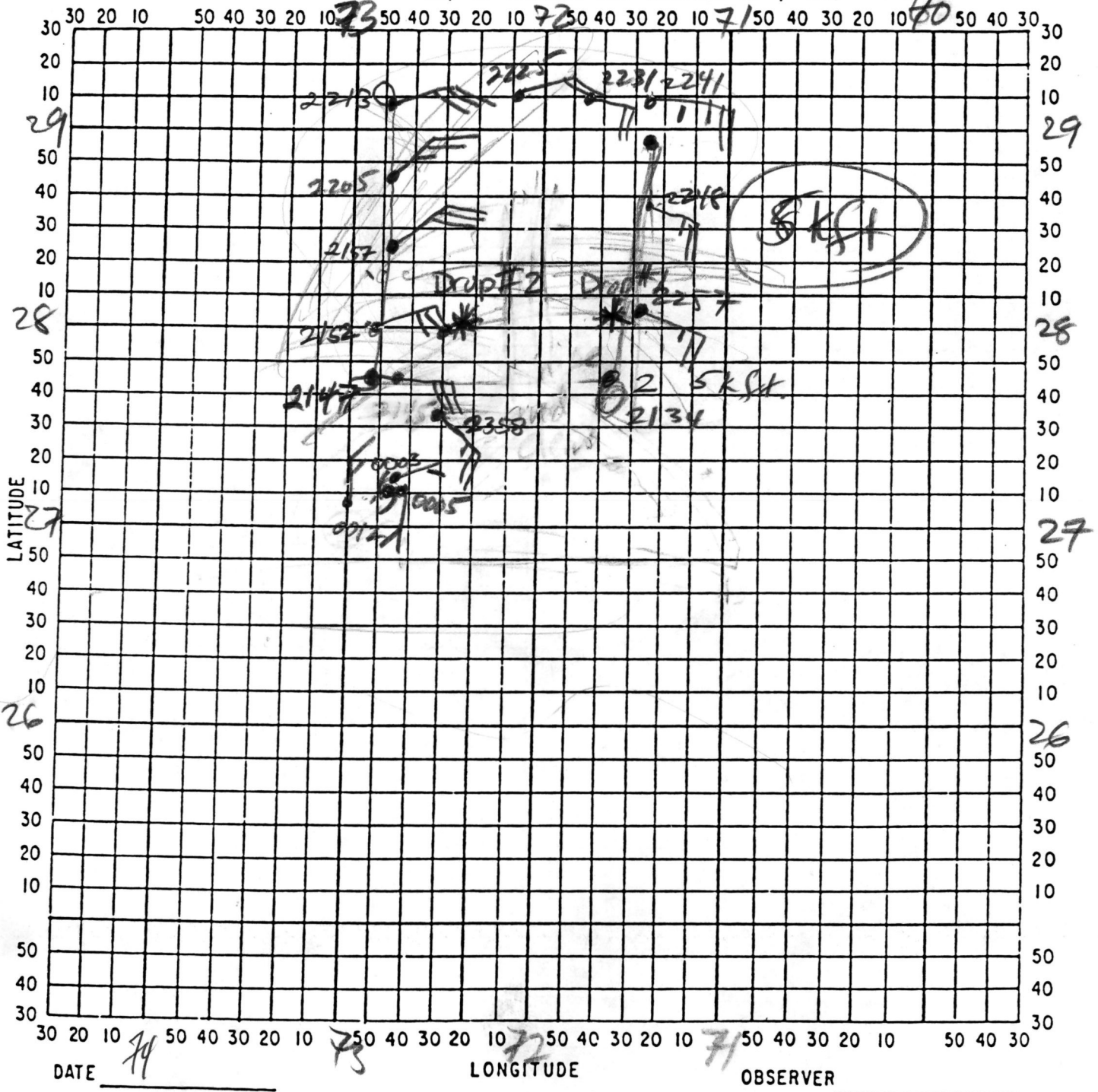
*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.

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

3

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 _____

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.

1111

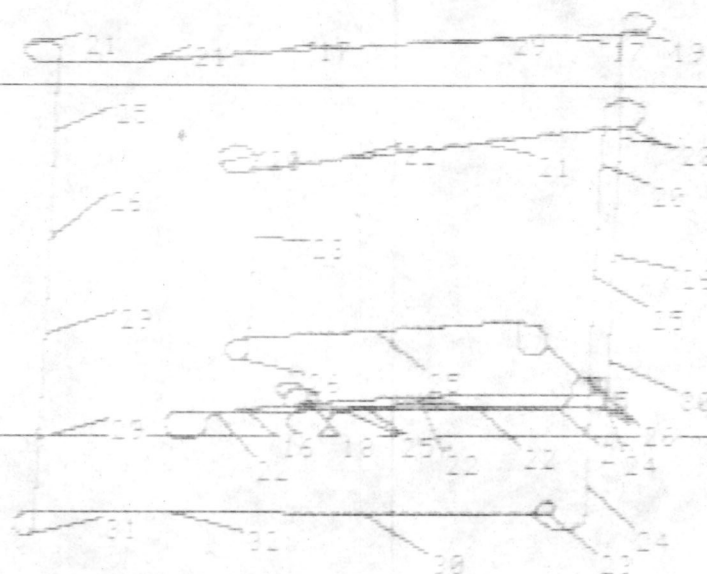
20.5

73 0 72 0 71 0
20:30:31 851008 000 FTRK 23:43:49

29.0

28.0

27.0



74 0 73 0 72 0 71 0 70 0
19:18:21 851008 000 FTRK 23:44:19

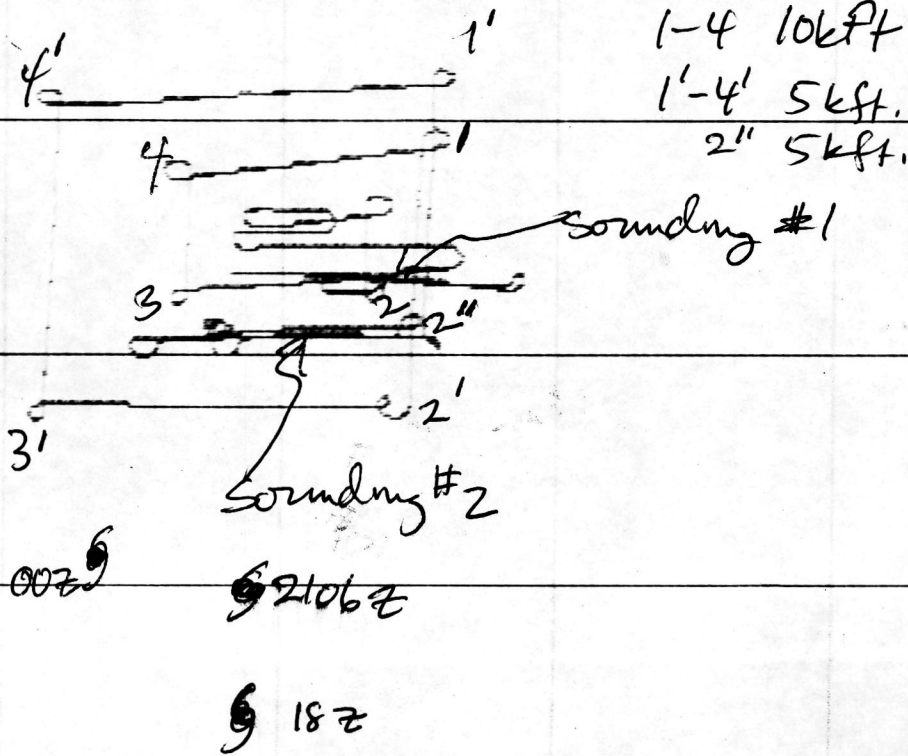
30.0

29.0

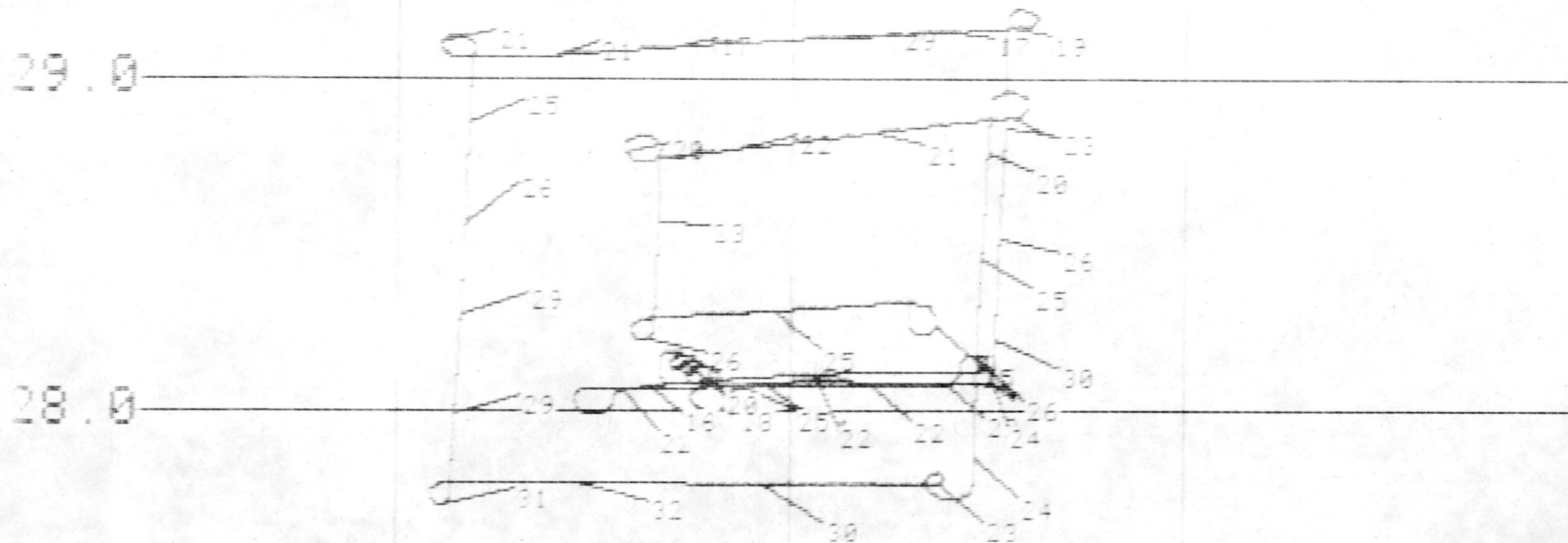
28.0

27.0

26.0



70 0 72 0 71 0
 20:30:31 851008 ORO FTRK 23:49:26

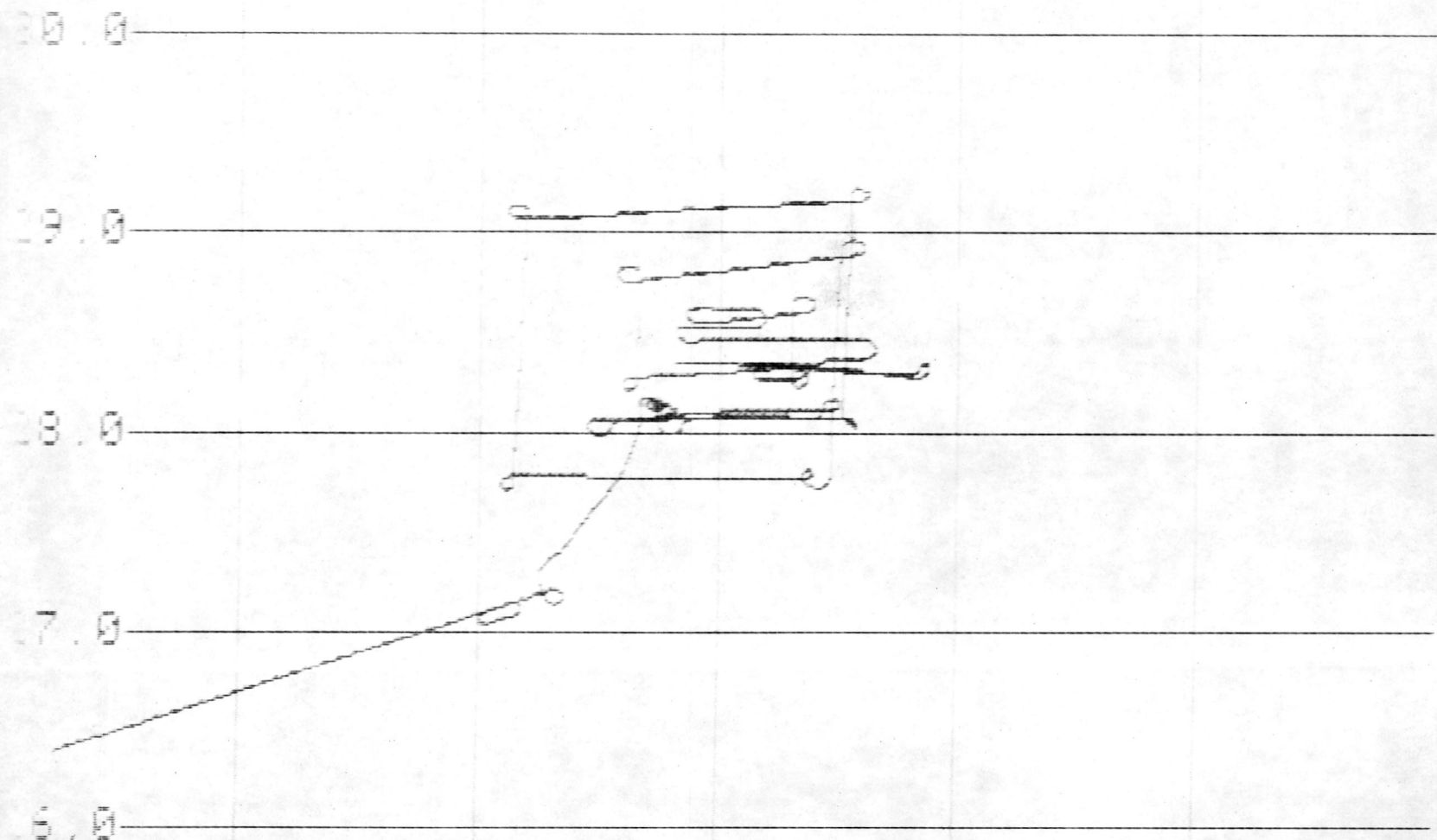


000076

21068

188

74 0 73 0 72 0 71 0 70 0
19:18:21 851008 0A0 FTRK 0:41:25



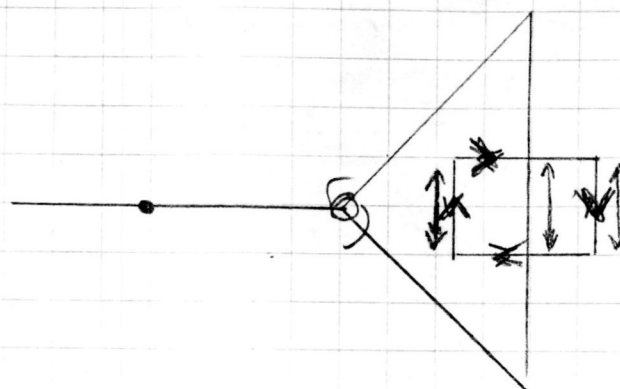
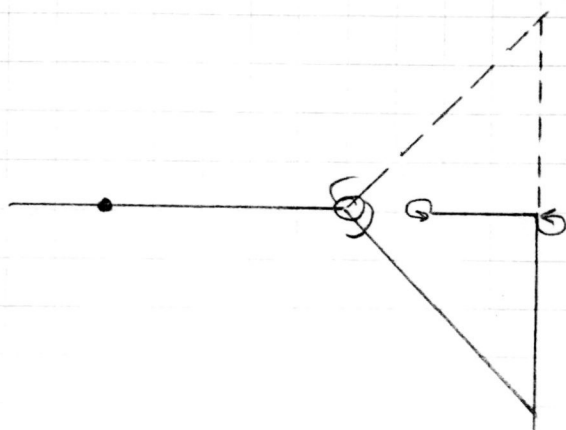
43 RF

tapes onboard available.

600' 15

1200' 20

2400 23



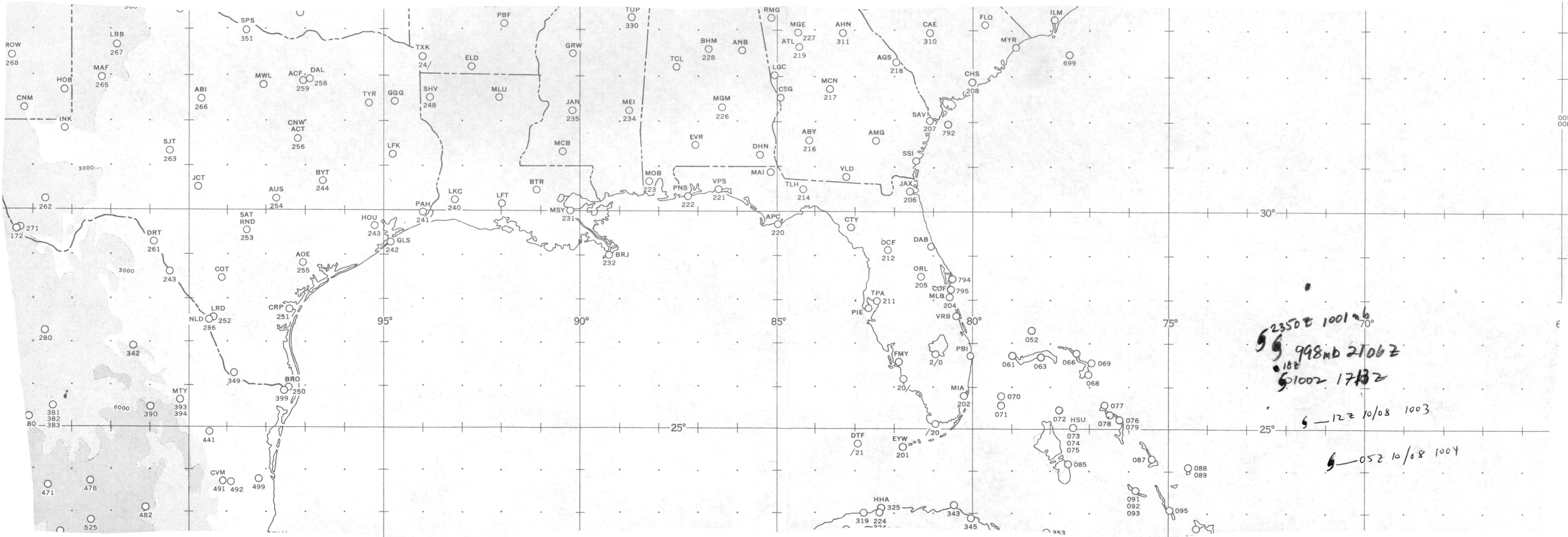
5-10-20-

08/0505 24°14' 70°59' 1004
08/1207 25°08' 71°29' 1003

T/O	16 Z	12
ETA	18 Z	
DEPART	00 Z	
ETA	02 Z	22



43	42
MAZKS	WILLOUGHBY
LOZID	M BLACK
DODGE	KOHLER
WILIS	R BLACK
CANACHE	SEOLKE
STOSS.	



1231 080C85 38A-1

03577 27384 MA26N71W-1

