19920929I1-05TINA

E.2 Lead Project Scientist (On-Board)

E.2.1 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 AOC 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 AOC 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 (MGOC in Miami or FGOC at remote recovery location).

E.2.2 In-Flight

✓ 1. Confirm from AOC flight director that satellite data link is operative (information).

✓ 2. Confirm camera mode of operation.

✓ 3. Confirm data recording rate.

✓ 4. Complete Form E-2.

E.2.3 Postflight

✓ 1. Debrief scientific crew.

✓ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to 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 AOC flight director.]

____ 4. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.

____ 5. Determine next mission status, if any, and brief crews as necessary.

____ 6. Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

Form E-2
Page 1 of 5

On-Board Lead Project Scientist Check List

Date 09/29/92 Aircraft 43 RF Flight ID 920929I1

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	Willis / M Black	Flight Director	Damiano
Cloud Physics	R. Black	Pilots	Turner / Kennedy
Radar	M Black / Houston	Navigator	Kozack
Workstation	—	Sys. Engr.	Roles
Photographer	—	Data Tech.	Lynch
Omegasonde	Willis	El. Tech.	
AXBT/AXCP	—	Other	
Charge Probe	Houston		

Take-Off	Location	Landing	Location
	Puerto Vallarta		

B. Past and Forecast Storm Locations

	Date/Time	Latitude	Longitude	MSLP	Max. Wind
	29/15Z	16.8N	114.2	948 mb	115 kts
FCST	30/00Z	16.7	115.6		115 kts
	29/18Z	17.0	114.6	probably stronger	115 kts

C. Mission Briefing

Fig 4, overall evolution 3 hr
Electrification 2 hr

17.0
119.6 1156

D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	✓	✓	
Radar/LF	✓	✓	
Radar/TA (Doppler)	✓	✓	
Cloud physics	✓	✓	
Data system	✓	GRAPHICS OUT	
Omegasondes	✓	✓	
AXBT/AXCP	—	—	
Workstation	—	—	
Photography	✓	✓	

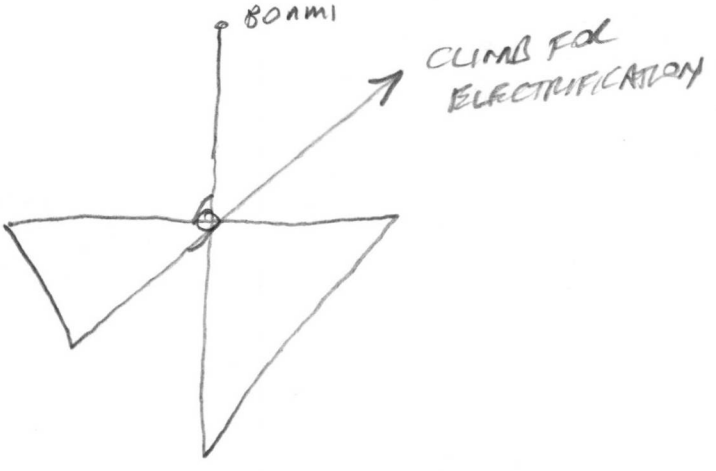
REMARKS:

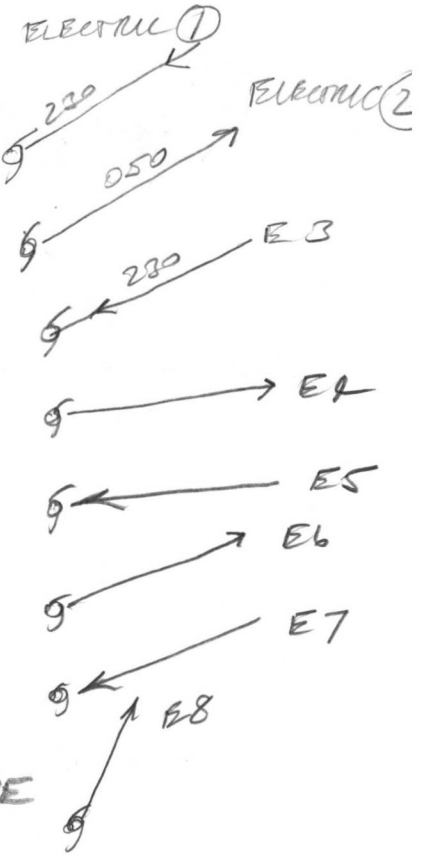
1835Z STILL WORKING ON GRAPHICS
CANT USE HV CHARGING SYSTEM PROPERLY W/O IT

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

1. 2 Fig 4's with 60 n mi legs
2. Electrification, first radial legs at FL 140 Then climb as possible

E. II. Actual Flight Pattern





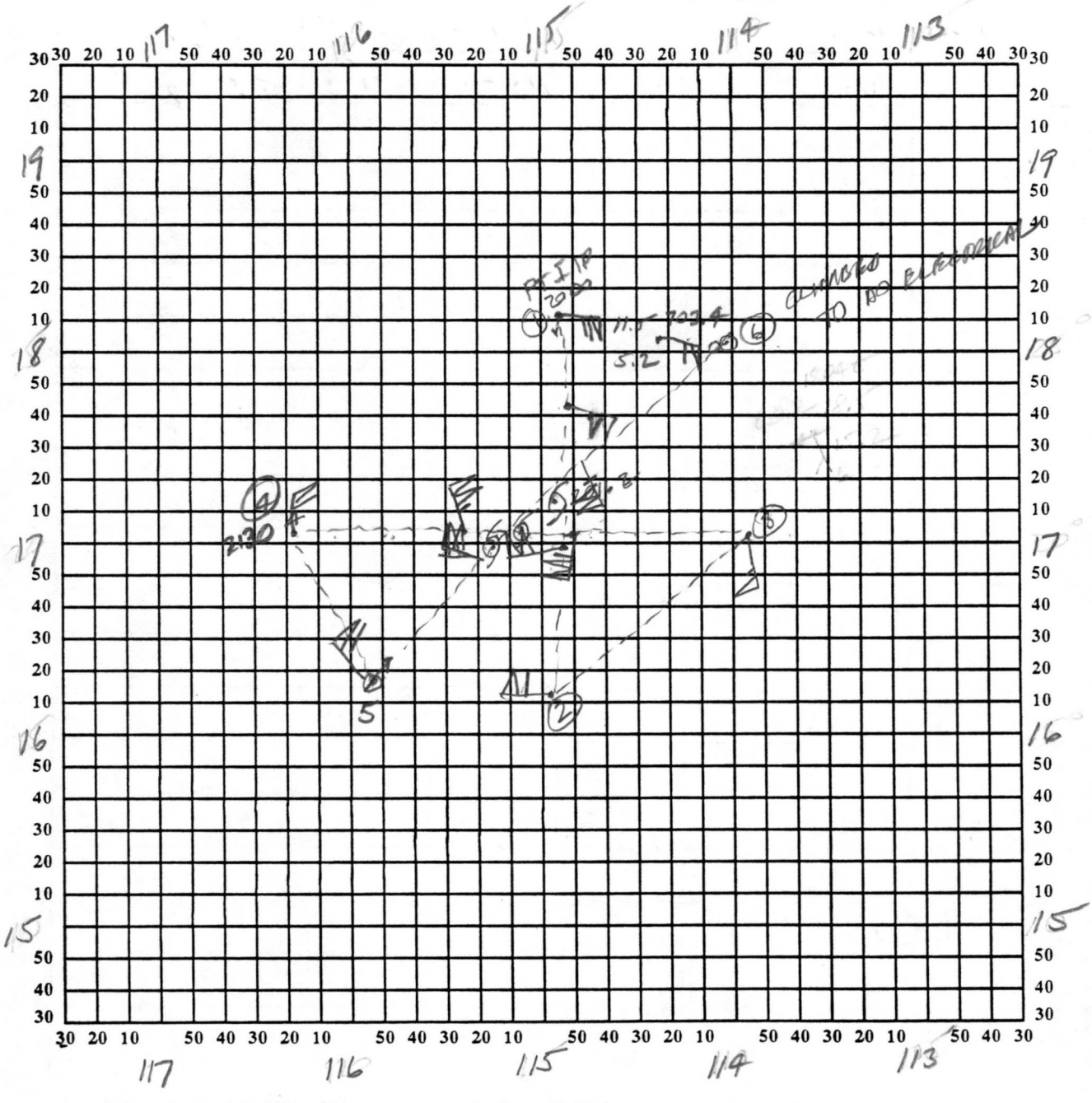
ELECTRIC

RADIALS 045, 225
060, 080 ON NE TOE SIDE

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Date 09/29/92 Aircraft 43RF Observer Willi



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

Lead Project Scientist Event Log

Date 9/29/92 Flight 920929I LPS Willis M. Black

Time	Event	Position	Comments
2153/20	IN EYE	17 6.2 / 115 12.7	INNER EYE OBSTC 995.7 mb 13.4/12.3
2209/00	POINT 6	17 35.1 / 114 38.6	3041 698.3 9.9/9.9
2217/30	HEADING BACK IN AT		+2.8°C +4.5°C PASS 1 ELECTRIC
2235/38	IN EYE	17 8.6N / 115 15.6	8.5°C (9741/4537) 557.9 NOT MUCH CONVECTION
2241/20	BACK OUT ON RECIPROCAL	111 knots	ELECTRIC 2 9742/4560
	CLIMBING	AT HIGH AS WE CAN	9652/4765
2259/30	ELECTRIC 3	5723/5917	-4.6°C TRK 235 WILL COME OUT AT 080
2314/00	ELECTRIC 4	17 0.4 115/26.0	5967/5905 IN EYE 2.9/-2.8 5945/5853 UPWIND OF ECHOES
	ELECTRIC 5		
2353/45		17 34.9 114/48.1	400.5 mb -11.5/-19.3 7144/7461
01			
0134/15	RETURNING	19/92.8 109/7.4	064/02 -12.4/-19.0 437.2
0202/00	descending	20 14.9 106/36.6	128/05 504.2 -5.5/-11.5
0229/53	landed PVA	GPI 20/90.8 105/5.2	20/93.9 105 13.4 INERTIAL

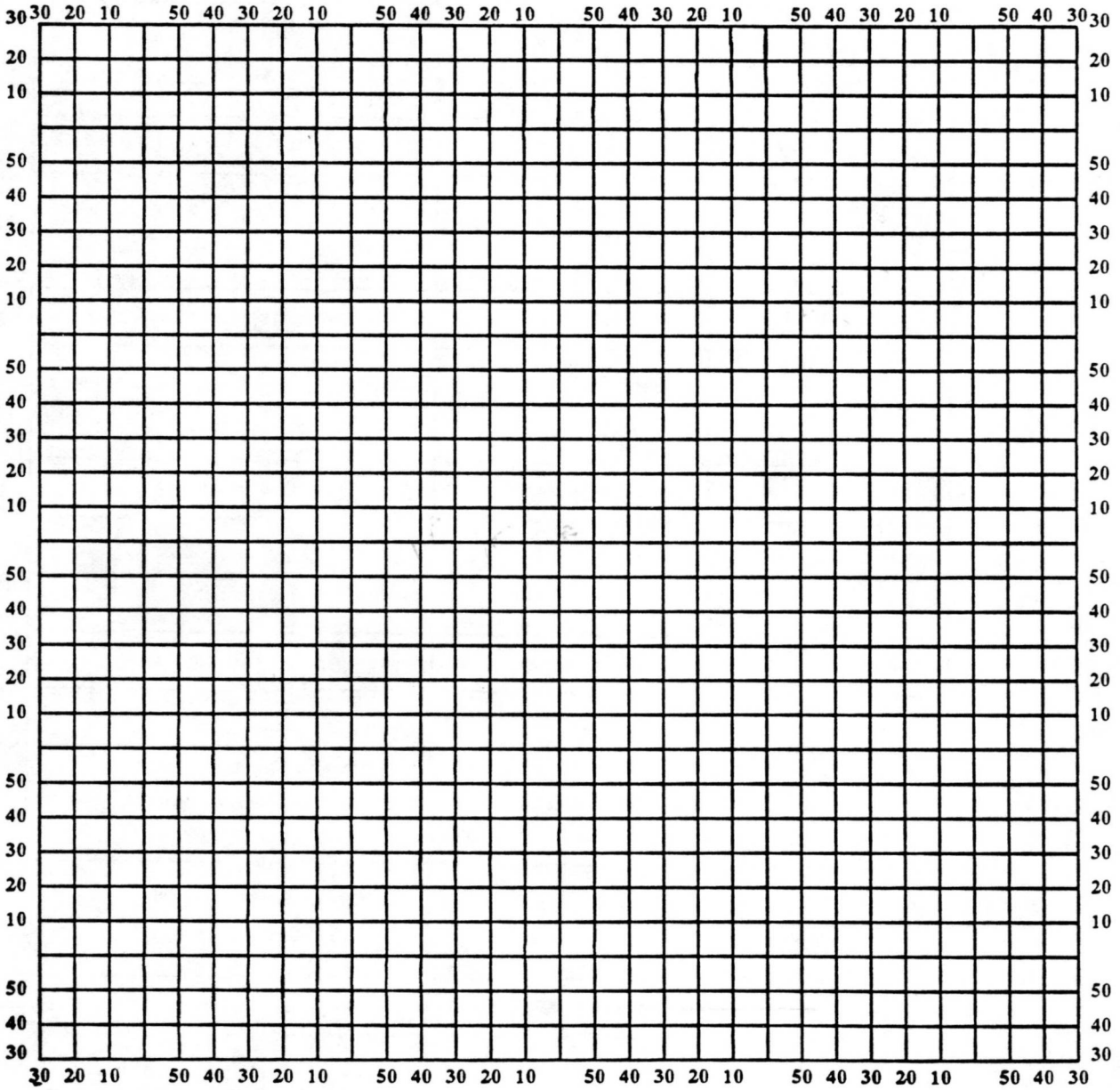
6156/6338

6551/6931

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Date _____ Aircraft _____ Observer _____



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

Form E-2
Page 5 of 5

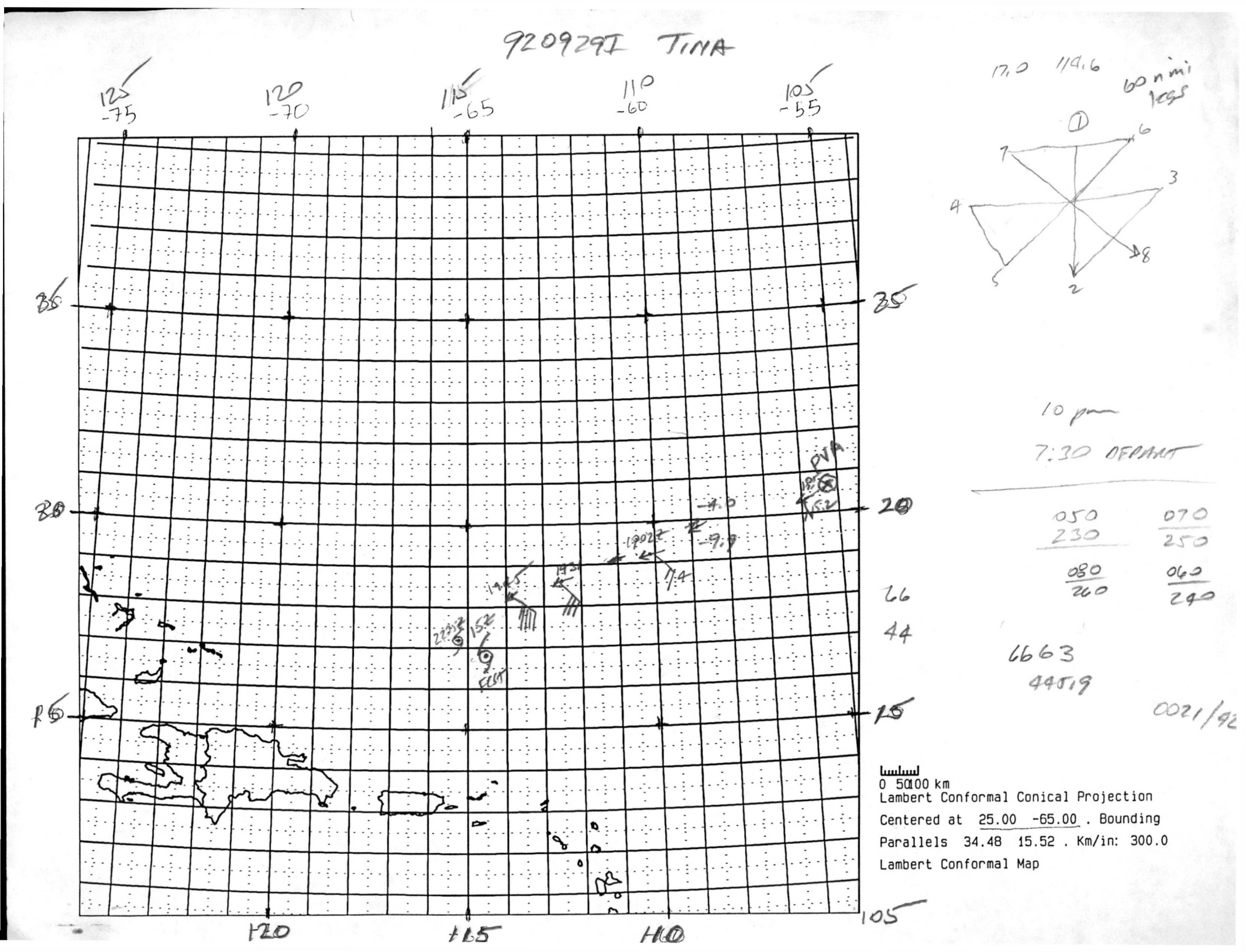
020 OR 200

Lead Project Scientist Event Log

Date 9/29/92 Flight 920929I LPS Willis / M Black

Time	Event	Position	Comments
1751/50	TAXI PVA	GPS 20/40.7 INE 105/15.1	
1758/39	T/O PVA	20 38.4/105/18.5	999.4 27.8/25.8 238/06 PA 170
1811/20	Don't have	graphics for	charge probes
1839/47	1946.7 108/16.7	149/02 -4.4/-9.8	504.0 5515 winds suspicious
	18Z Fix 17.0N 114.6W		115kt probably stronger
	WILL DO FAST	ONLY ON	OUTSIDE LEGS OF FIG 4
1900/50	1919.2 109 59.1	144/15 -2.9/	-11.2 504.9 5504 PA
1911/23	GPS 19 5.0/110 52.2	SOCORRO ISLND	PORT FORWARD CLOUDS BLOW ALONG WIND VECTOR SE → CW
1916	STORM FIRST IN	VIEW ON LF	RADAR NOW
	GRAPHICS	OK NOW, DOWN AGAIN	1918Z
1920 ?	MIA REQUESTED	VORTEX, WILL DO EYE DROP	ON FIRST PASS
1930/50	18 37.2 112/29.9	144/31	-4.3/-12.2 505.0 5502 CONCENTRIC EYE WALLS NOW
1943/30	18/19.9 113/33.5	Gradual descent to IP	
1959/16	IP #1 18/8.2/114/59.6	088/77 11.6/5.6	703.6 2972 TURNING SOUTH
2007/00	17/49.9 114/52.9	101/98	WILL MAKE EYE DROP
2012/34	INNER WALL	106/107 129 max	NICE CLEAR EYE
2018/40	EYE	994 mb.	FORWARD FILM BREAKS SHARP WALL ON SOUTH
2026/56	#2 16/13.7	114/58.3 267/62	9.1/9.9 701.4 2996
2054/00	#3 16/58.4/113/9.1	173/59.9 2972 703.6	OUTER EYE REPLACING INNER EYE 045
2112/00	IN EYE 17 3.5	115 10.6	999.1 mb 001/12 19.4/11.9
2127/50	#4 17 3.6	116/17.0	008/63 9.5/9.2 701.6 2995
2137/33	#5 16 19.3	115/56.3	319/56 10.6/8.7 701.9 2991

NOON ON 270/10


920929I TINA
125 -75
120 -70
115 -65
110 -60
105 -55
35
30
25
20
15
10
PVA
-7.0
-9.9
7.4
17.0 119.6
60 nmi
10 pm
7:30 DEPART
050 070
230 250
080 060
260 240
6663
44519
0021/92
0 50 100 km
Lambert Conformal Conical Projection
Centered at 25.00 -65.00 . Bounding
Parallels 34.48 15.52 . Km/in: 300.0
Lambert Conformal Map