

U.S. Dept. of Commerce / NOAA / Aircraft Operations Center

AOCWFI

Flt ID: 021001n2	From: MCF	To: MCF
Flt No: 03-002	Blk In: 0111z	ATA: 0101z
ETD: 1730z	Blk Out: 1723z	ATD: 0101z 1732z
ETE: 8.0	Blk Time: 7.8	Flt Time: 7.5
Sponsor Org: HRD	Program: SURV	Purpose: HURR LIL

AOC Personnel

AC: YATES	Sys Eng: HANBROOK
CP: FINN / POSTON	Data Sys: McNAMARA
Nav:	Radar: BROGAN
FE:	GPS/BT:
FD: FLAHERTY	Cld Phys:
Avionics: ROLES	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
LANDSEA	HAPS	HRD
RODGERS	HAPS	HRD
WILSON	VIS	PRSS
BRILEY	VIS	PRSS
MATTHEWS	VIS	NOAA

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)

Flt ID:	02100112	Time Off:	1723z / 1732	Time On:	0101 / 0111
	AVC (Take Off)	Wx Station (Take Off)	AVC (Land)	Wx Station (Land)	
Pressure	1015.7 mb	A3002	1016.1		
	Number	Data Disposition / Date / Quality			
Flt Lvl Tapes	1				
Radar Tapes					
Cloud Physics Tapes					
Video Tapes					
AXBT					
AXCP					
AXCTD					
Dropsondes	26				
Video					
	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					
Remarks	3 EXTRA DROPS (AFTER 12, 15, + 19)				

Flight ID:

021001n2

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Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _c	Press. Alt	Geo. Alt	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
1737	2725	8251	39	41	090	09	31	23			10149	1014.721		TAKEOFF
1804	2500	8223	209	203	141	19	-49	-46	11618	12356	/	201	96	DROP 1
1820	2325	8290	109	105	52	6	-57	-63	12616	13385	/	171	89	DROP 2
1849	2335	7943	37	33	260	11	-60	-60	12760	13538	/	167	87	DROP 3
							-60	-62			/	165	84	DROP 4
1919	2646	7775	71	74	174	4	-59	-66	12908	13671	/	163	82	DROP 5
1926	2461	7749	100	100	292	3	-60	-66	12904	13681	/	163	81	DROP 6
1955	2210	7749	120	117	50	8	-61	-65	13001	13758	/	161	81	DROP 7
2011	2110	7580	120	117	60	13	-62	-64	13024	13782	/	160	80	DROP 8
2032	1946	7469	241	239	80	12	-62	-65	13045	13803	/	159	80	DROP 9
2042	1962	7562	274	274	71	12	-62	-64	13044	13793	/	159	79	DROP 10
2053	1975	7753	280	281	70	14	-64	-65	13112	13916	/	155	78	DROP 11
2117	2035	8066	282	283	43	10	-64	-65	13191	13968	/	151	76	DROP 12
2132	2071	8250	281	281	29	5	-65	-66	13449	14252	/	148	74	DROP 12 EXTRA
2143	2005	8386	163	158	86	5	-66	-66	13478	14271	/	148	76	DROP 13
2153	1852	8249	179	175	71	12	-67	-67	13478	14266	/	148	73	DROP 14
2218	1704	8257	233	232	71	22	-68	-68	13613	14333	/	144	72	DROP 15
2237	1707	8502	315	319	87	15	-68	-69	13617	14403	/	144	73	DROP 16
2249	1842	8577	333	335	67	12	-67	-67	13618	14404	/	144	72	DROP 17
2306	2028	8647	344	345	71	7	-67	-69	13615	14422	/	144	73	DROP 18
2313	2115	8673	344	345	81	8	-66	-68	13623	14430	/	144	73	DROP 18 EXTRA
2320	2200	8706	311	312	56	11	-66	-64	13613	14415	/	145	72	DROP 19
2331	2257	8831	294	292	133	8.7	-66	-66	13617	14410	/	145	72	DROP 19 EXTRA
2338	2301	8915	351	354	130	11	-68	-69	13617	14411	/	145	74	DROP 20
2356	2504	8832	49	52	129	12	-66	-69	13617	14407	/	145	72	DROP 21
0015	2605	8606	37	34	258	4	-65	-67	13621	14421	/	144	73	DROP 22
0033	2790	8500	64	63	294	7	-65	-67	13611	14434	/	145	71	DROP 23

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[illegible]

N49RF AVAPS DropSonde Log

N49RF Project: LILI

Flight ID 021001N2

Mission: _____

Flight #: R16

System Status: Good

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	OOD ☒
1	012225 014	1	1804	.2	39	gm		✓
2	013635114	2	1822	.3	32	gm		✓
3	013035 121	1	1849	.3	44	gm	Ended 200sec late	✓
4	013968 084	2	1904	.3	40	gm		✓
5	013968 007	1	1919	.5	75	m		✓
6	013968 086	2	1936	.3	45	gm		✓
7	013635 123	1	1955	.5	50	gm		✓
8	013945 097	2	2011	.2	30	DR		✓
9	013718 023	1	2032	0.3	14	RJM		✓
10	013945 094	3	2039	0.4	10	RJM		✓
11	013718 022	2	2053	0.3	15	RJM		✓
12	013718 026	1	2117	0.3	38	RJM		✓
13	013718 017	2	2132	0.3	20	RJM		✓
14	013968 083	1	2143	0.5	50	RJM		✓
15	013718 021	2	2203	0	21	RJM		✓
16	013718 018	1	2218	0.3	25	RJM		✓
17	013968 085	2	2237	0.4	35	RJM		✓
18	012525 054	1	2249	0.5	36	gm	lost winds 600 sec Came back 100 sec	✓
19	013635 035	2	2306	.7	48	gm		✓
20	013718 027	1	2313	.6	21	gm		✓
21	013968 081	3	2321	.4	27	gm		✓
22	013945 187	1	2331	.4	48	gm		✓
23	013945 085	2	2339	.5	30	gm		✓
24	013718 024	1	2356	.4	31	gm		✓
25	013968 082	2	0015	.4	26	gm		✓
26	013718 019	1	0032	0	18	gm		✓
27	013945 053							
28								
29								
30								
31								
32								
33								

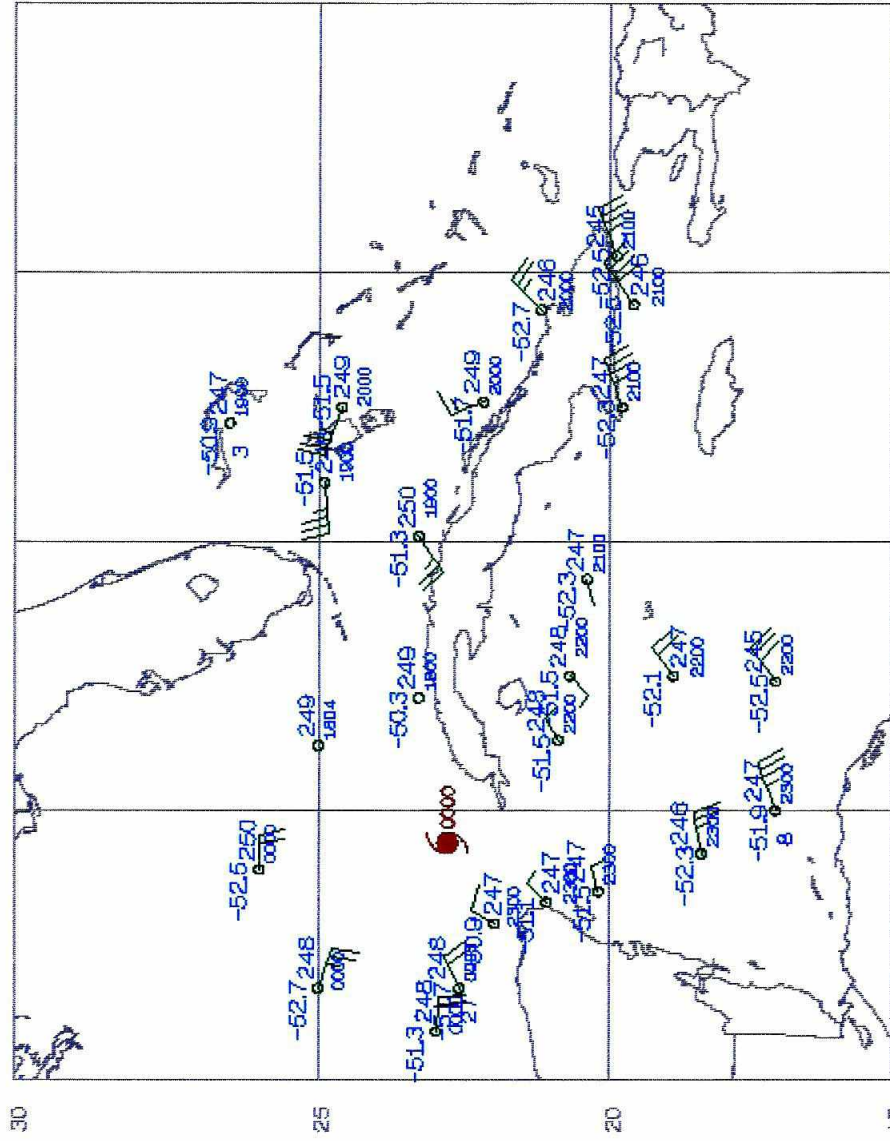
26-24 good

Drop #	Sonde Serial Number	Chn #	Time (ZULU)	Press. offset	Winds time	Operator Initials	Comments/ Drop Status /Reason for Failure	GOOD ☒
34								
35								
36								
37								
38								
39								
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07/21/01

AVAPS HINTS

- N43's **RED PHONE** appears to interfere with AVAPS telemetry, don't allow its use while sondes are in the air
- ASDL transmits on 401.8MHz, and will trash AVAPS telemetry +/- 1 MHz from that point
- Rawinsondes transmit at 403.0. Caribbean taxi drivers and bandit radio stations transmit wherever they want.
- The sonde GPS Oscillator needs at least 2 minutes to warm-up and stabilize. If you drop early, the winds data (if any) will be initially not accurate and probably late.
- Below 10,000', open the P3 launch chute cover holes at least 2/3 of the way. From 10,000' to 18,000', open about 1/2 way, above 18,000' open 1/3 of the way.
- Dropping a backup sonde prior to selecting **BEGIN COLLECTING DATA** is the single most frequent operator error.
- 60 seconds is the cut-off time for Good vs. Late winds. If no satellites are locked on by 60 seconds, or no winds data by 80 seconds, drop the backup.
- Frequency block assignments: **Air Force - Block A** **N42RF - Block B** **N43RF - Block C** **N49RF - Block D**
- P3 Drops only.... Shorten the ribbon to about 20" - 25"
- When sonde telemetry fails prematurely, wait until the normal drop time has elapsed to terminate data collection.
- If Pre-launch sonde telemetry is dependent upon hand position while holding the sonde in order to **NOT** generate CRC errors, the sonde transmitter is bad and it should not be dropped.

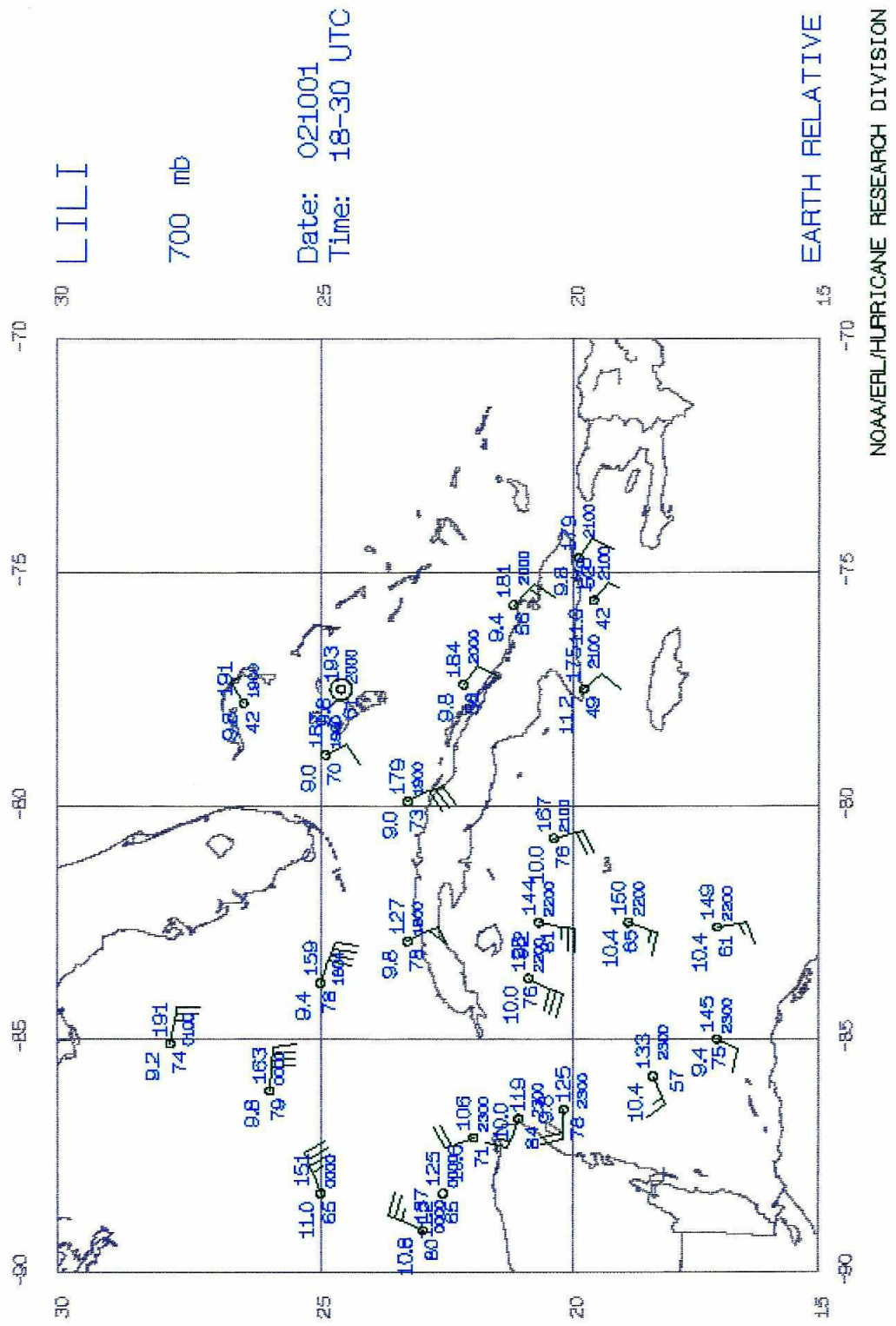


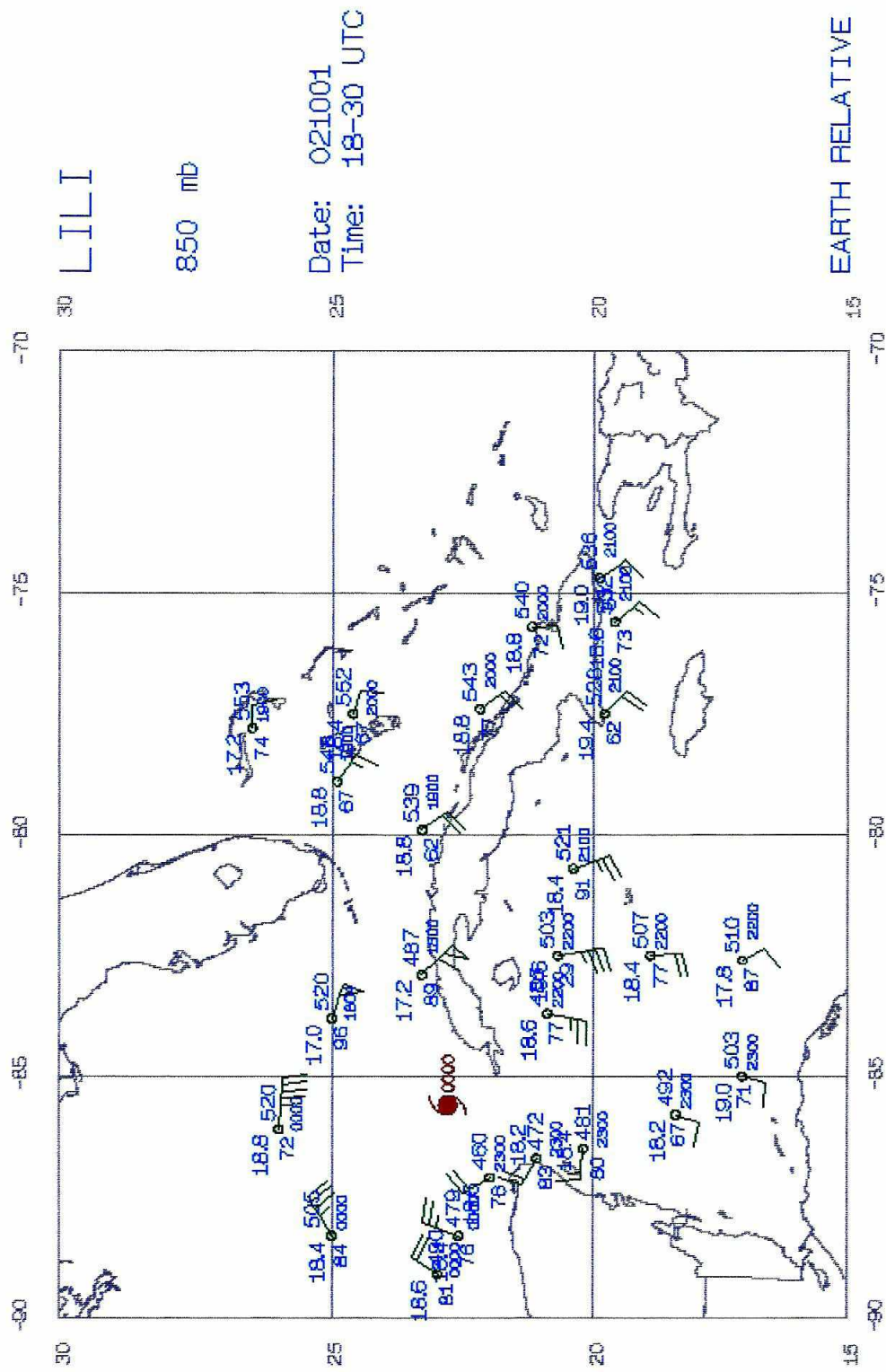
200 mb

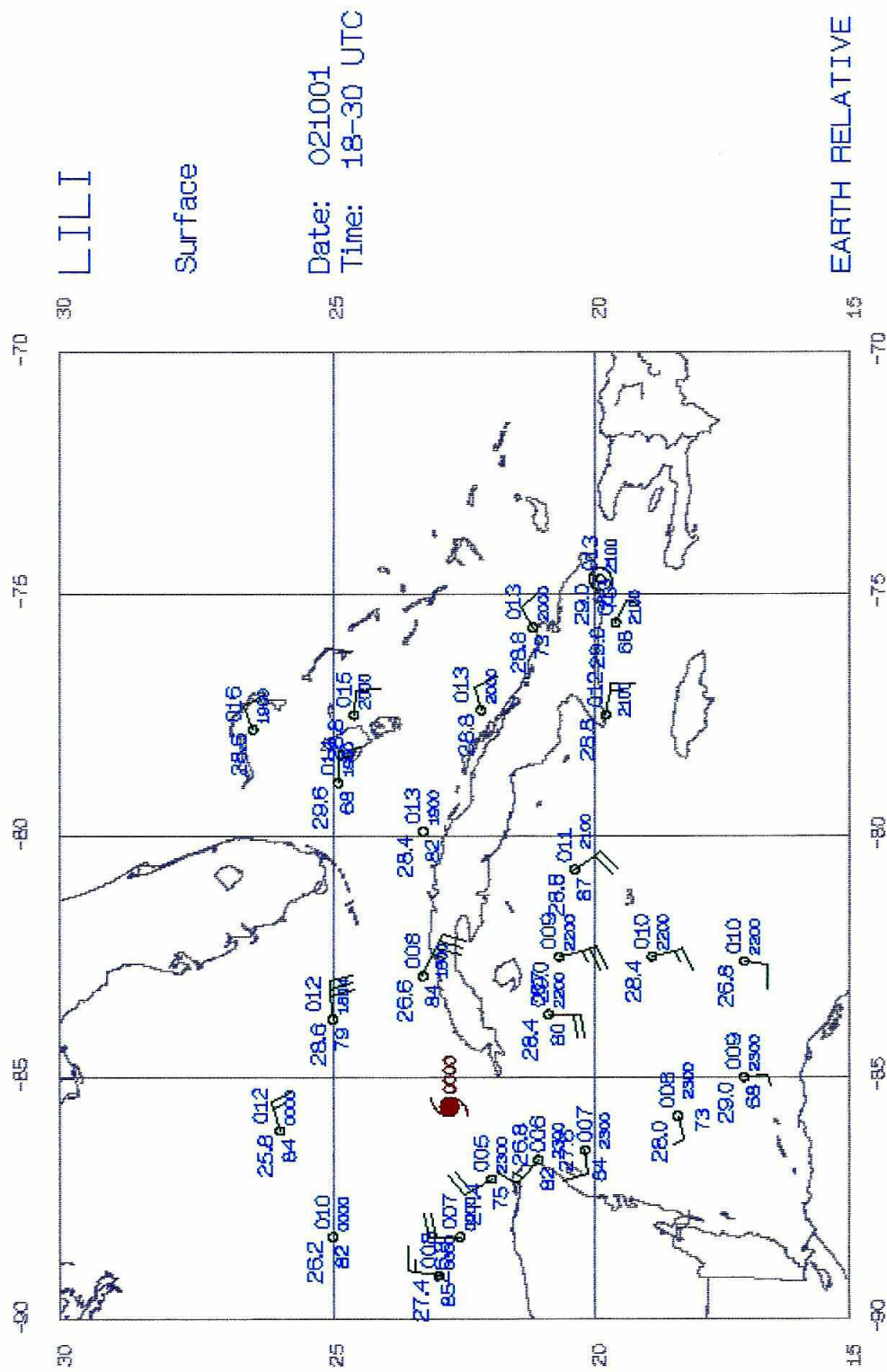
25 Date: 021001
Time: 18-30 UTC

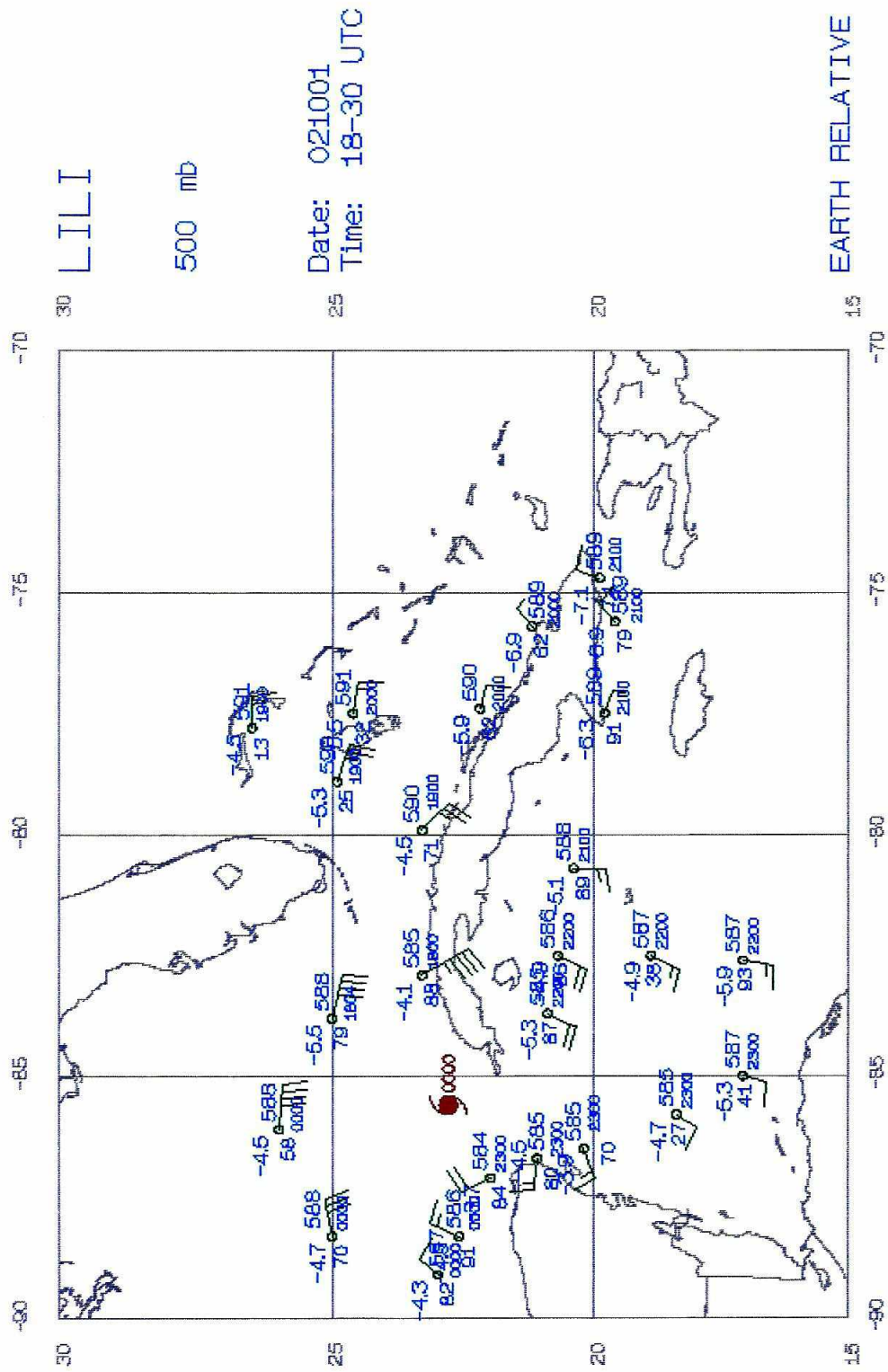
EARTH RELATIVE

NOAA/ERL/HURRICANE RESEARCH DIVISION









021001n2drops1

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: LILI/SYNOPTIC

NOAA/Hurricane Research Division Monday, September 30, 2002 10:57:00 AM

Aircraft: N49RF

Proposed takeoff: 01/1730Z

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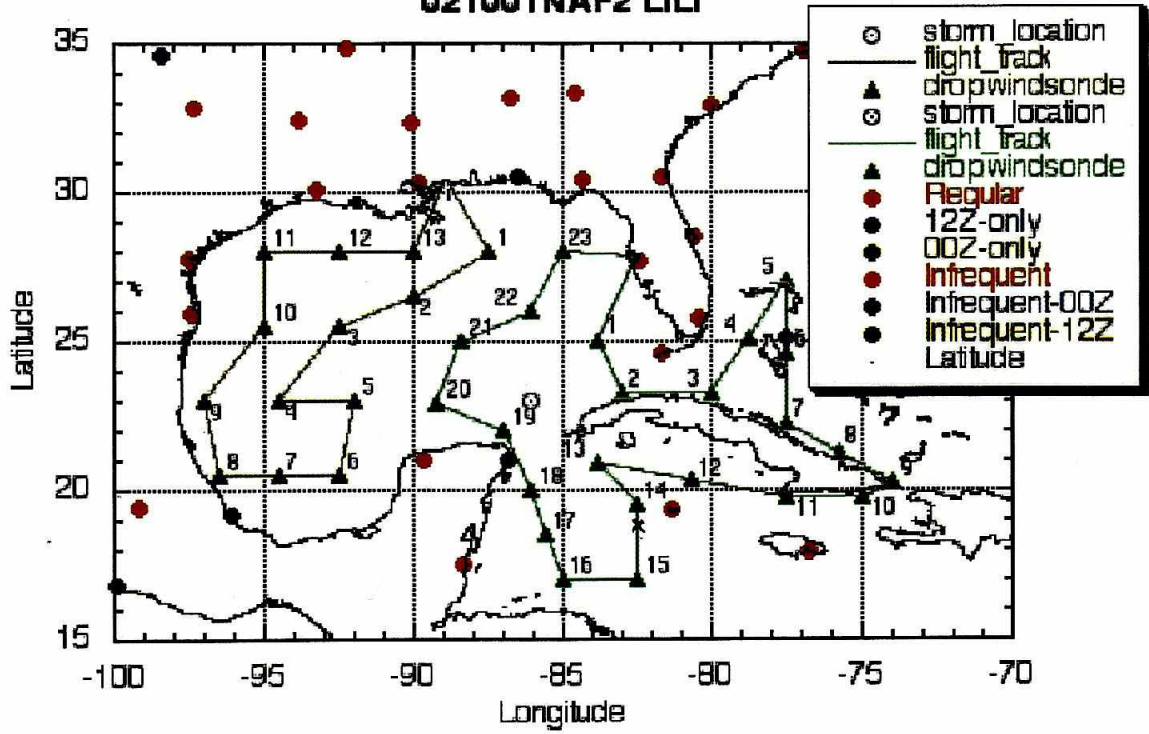
DROP LOCATIONS

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#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	25 02	83 48		0:25
2	23 14	82 58		0:41
3	23 15	80 00		1:04
4	25 07	78 45		1:22
5	27 00	77 30		1:40
6	24 37	77 30		2:00
7	22 15	77 30		2:19
8	21 15	75 45		2:35
9	20 15	74 00		2:51
10	19 45	75 00		3:00
11	19 45	77 30		3:20
12	20 21	80 39		3:46
13	20 57	83 48		4:11
14	19 30	82 30		4:27
15	17 00	82 30		4:47
16	17 00	85 00		5:07
17	18 30	85 32		5:20
18	19 00	86 05		5:33
19	22 00	87 00		5:51
20	22 57	89 13		6:10
21	25 02	88 23		6:29
22	26 00	86 05		6:48
23	28 00	85 00		7:07

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021001NAF2 LILI



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