

Flt ID: 020917n	From: MCF	To: MCF
Flt No: 02-085	Blk In: 0201	ATA: 0153z
ETD: 1730	Blk Out: 1717z	ATD: 1727z
ETE: 8.5	Blk Time: 8.7	Flt Time: 8.4
Sponsor Org: HRD	Program: SURV	Purpose: TD #10

AOC Personnel

AC: McCann ✓	Sys Eng: CARPENTER ✓
CP: POSTON / FINN ✓	Data Sys: BROGAN ✓
Nav: ROTTEVEEL	Radar: McNAMEE ✓
FE:	GPS/BT:
FD: PARISH / FLAHERTY	Cld Phys:
Avionics: HORN BOOK ✓	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
WHITE, S ✓	HRD	
LIN, P-L ✓	VIS-TAIWAN	
HONG, J-S ✓	VIS-TAIWAN	

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

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

AOCWF2

Flt ID: 02-085	Time Off: 1727	Time On: 1714 0153Z	
A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure 1016.7	A30.00	1014.1	29.95

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	1	
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes	37	(INCLUDES 5 REV. D TEST SONDES)

Video					
	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks

REV D + B 1-5

REV B 18-30

REV D 6-17

37 TOTAL SONDES (5 TEST SONDES)

2 SONDES DROPPED NEAR CENTER (2 EXTRA DRIPS)

Flight ID:

020917n

Page of

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

Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _d	Press. Alt	Geo. Alt	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
172644	278	-82.5	313	300	32	4	30	23	-19	-62	10165	1015.1	1.17	TAKEOFF
181400	23.27	80.46	128	128	184	10	-59	-64	12470	13204	—	175	88	DROP 1 (2)
183345	2248	7797	120	121	225	5	-58	-60	12472	13207	—	175	88	DROP 2 (2)
184505	2173	7671	122	121	175	1	-58	-63	12470	13210	—	175	88	DROP 3 (2)
185624	2119	7546	13	5	280	15	-60	-59	12761	13517	—	167	82	DROP 4 (2)
190732	2251	7524	8.8	5.3	204	10	-62	-60	12763	13513	—	167	81	DROP 5 (2)
191441	2306	7400	96	96	273	2.5	-62	-63	12781	13505	—	167	86	DROP 6
193107	2297	7371	130	131	285	8	-65	-57	13077	13793	—	159	74	DROP 7
194310	2195	7257	182	185	271	8	-65	-64	13066	13791	—	159	79	DROP 8
200318	1953	7286	245	244	238	11	-63	-66	13050	13811	—	159	80	DROP 9 (141112)
202055	1826	7574	121	122	174	13	-63	-61	13054	13832	—	159	82	DROP 10
203303	1873	7472	121	123	203	13	-64	-59	13062	13843	—	159	80	DROP 11
204300														DROP 12
205942	1598	7501	217	219	298	11	-66	-57	13329	14116	—	152	75	DROP 13
211950														DROP 14
212121														DROP 14-C1
212330														DROP 14-C2
213504	1506	7807	276	276	119	9	-67	-63	13470	14252	—	148	73	DROP 15
214802	1594	7951	268	264	121	12	-68	-66	13610	14403	—	145	71	DROP 16
215418	1522	8080	238	231	123	21	-68	-67	13609	14381	—	144	74	DROP 17
221057	1457	8201	290	289	121	22	-68	-69	13607	14383	—	145	74	DROP 18
222616	1604	8339	21	28	125	21	-69	-71	13610	14383	—	145	73	DROP 19
224800														DROP 20 (LATE)
225830	19.0	81.9	358	359	145	17	-68	-70	13611	14391		145.1	73.5	DROP 21
230830	20.3	81.7	11	12	164	16.7	-67.9	-70.2	13610	14390		145	72.8	DROP 22
231800	20		11	12										DROP 23
233300														DROP 24
235400	19 00	81 03	234	229	151	22.8	-67.8	-73.3	13606	14380	—	145	73.1	DROP 25
000700	1846	8561	251	244	170	25	-67	-72	13615	14381	—	145	73	DROP 26
001859	18.15	8845	347	347	185	23	-67	-72	13606	14370	—	145	71	DROP 27
003747	2053	8646	31	32	193	12	-66	-72	13613	14368	—	145	73	DROP 28
005718	2253	8496	42	43	167	7	-67	-73			—	145	73	DROP 29
011330	2411	8346	11	10	75	2	-66	-73	13612	14401	—	145	70	DROP 30 LAST

N49RF AVAPS DropSonde Log

N49RF Project: HURRICANE 02 Flight ID 020917n

Mission: TD#10 Flight #: RF 5 System Status: OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	OOD ☒
1	021735009	1	1814	0.2	31	082	REV.D	✓
2	003338130	5	1814	0	58	082		✓
3	021925059	1	1833	0.1	22	082	REV.D	✓
4	993818004	5	1833	0.4	20	082		✓
5	021735033	2	1842	0	15	082	REV.D	✓
6	003438027	6	1842	0.3	29	082		✓
7	021735216	1	1856	0	34	082	REV.D	✓
8	014515103	5	1856	0	50	082		✓
9	021735224	2	1907	-0.3	26	082	REV.D	✓
10	003338128	6	1907	0	20	082		✓
11	021735026	1	1919	0	NONE	082	REV.D NOWINDS	✓
12	021735057	2	1930	0	43	082	REV.D	✓
13	021735056	1	1943	-0.1	54	082	REV.D	✓
14	021735054	1	2003	-0.4	71	082	REV.D	✓
15	021735024	1	2022	0.1	64	082	REV.D	✓
16	021735156	2	2033	0.2	73	082	REV.D	✓
17	021735058	1	2043	0.1	50	082	REV.D	✓
18	021735028	2	2058	0	52	082	REV.D	✓
19	021735053	1	2119	-0.3	63	082	REV.D	✓
20	021735092	2	2121	0.2	20	082	REV.D	✓
21	021735031	3	2123	0	22	082	REV.D	✓
22	021735152	4	2135	0	20	082	REV.D	✓
23	021735050	1	2148	-0.1	16	082	REV.D	✓
24	021735036	2	2157	-0.5	47	082	REV.D	✓
25	021735153	1	2200	0	46	082	REV.D LAST	✓
26	013945072	2	2226	0.2	45	082		✓
27	003338015	1	2247	0.2	35	082		✓
28	003338073	2	2258	0.6	12	082		✓
29	003115001	1	2310	0.2	70	082		✓
30	003828008	2	2318	-0.3	41	082		✓
31	003338072	1	2333	0.2	19	082		✓
32	003338036	1	2353	0.3	58	082		✓
33	003338039	2	0006	0.2	20	082		✓

Drop #	Sonde Serial Number	Chn #	Time (ZULU)	Press. offset	Winds time	Operator Initials	Comments/ Drop Status /Reason for Failure	GOOD ☒
34	003338082	1	0018	-0.1	22	OSR		☒
35	993925329	1	0041	0	43	OSR		☒
36	003148188	1	0057	0.2	45	OSR		☒
37	003718069	2	0113	0.3	56	OSR		☒
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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.

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: TEN/SYNOPTIC

NOAA/Hurricane Research Division Monday, September 16, 2002 12:15:57 PM

Aircraft: N49RF

Proposed takeoff: 17/1730Z

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DROP LOCATIONS

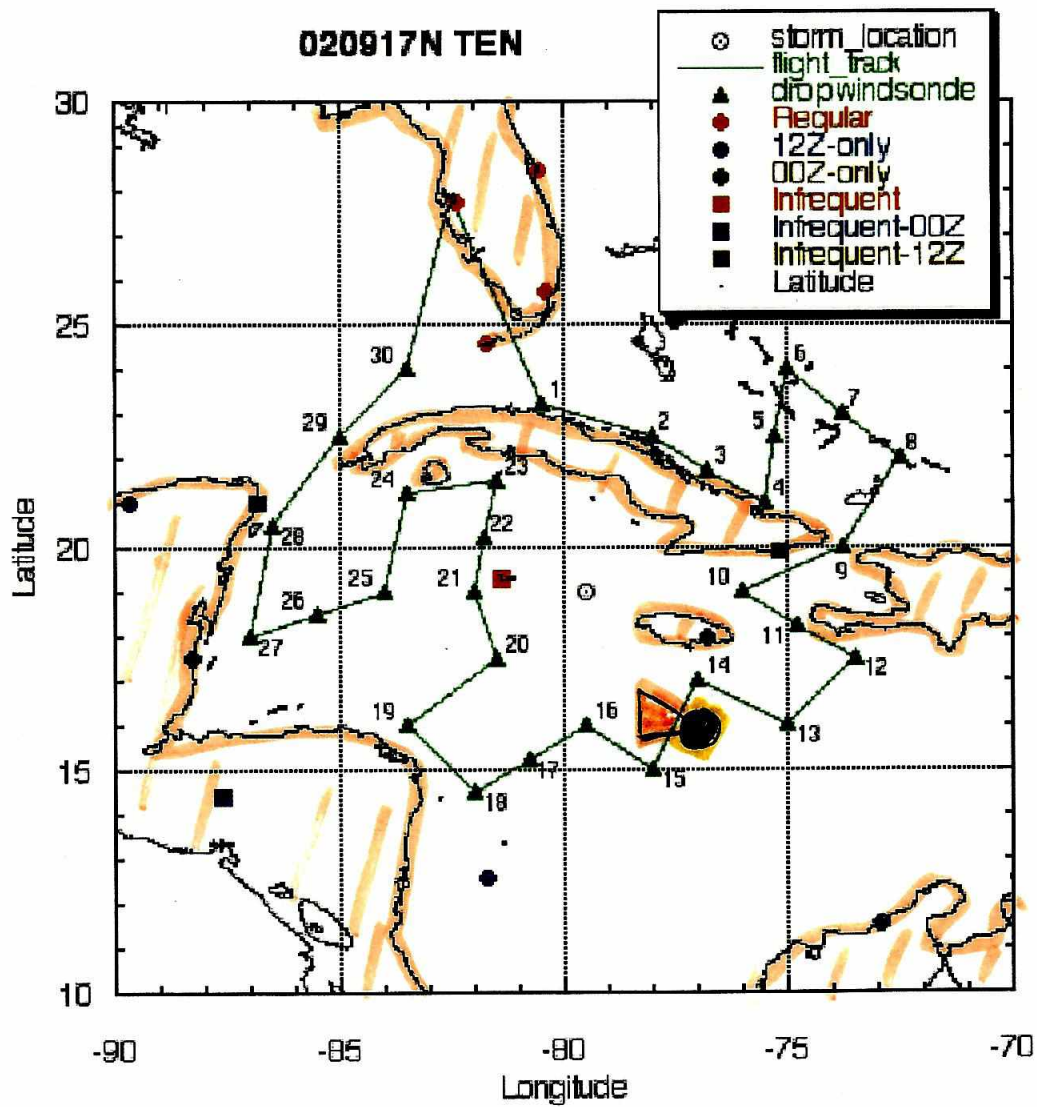
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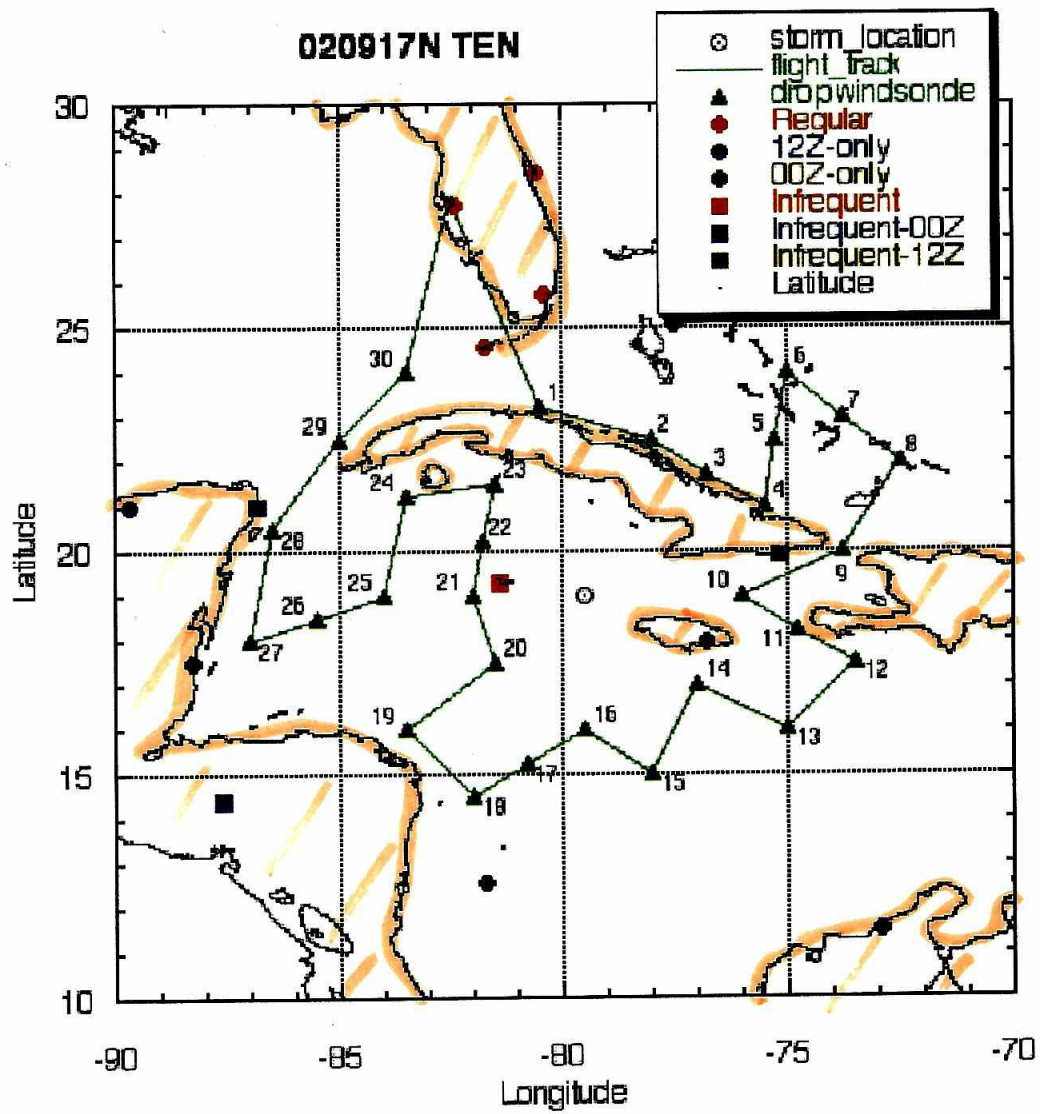
#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	23 15	80 30		0:40
2	22 30	78 00		1:01
3	21 45	76 45		1:12
4	21 00	75 30		1:24
5	22 30	75 15		1:37
6	24 00	75 00		1:49
7	23 00	73 45		2:02
8	22 00	72 30		2:14
9	20 00	73 45		2:34
10	19 00	76 00		2:53
11	18 15	74 45		3:05
12	17 30	73 30		3:17
13	16 00	75 00		3:34
14	17 00	77 00		3:52
15	15 00	78 00		4:10
16	16 00	79 30		4:25
17	15 15	80 45		4:36
18	14 30	82 00		4:48
19	16 00	83 30		5:05
20	17 30	81 30		5:26
21	19 00	82 00		5:38
22	20 15	81 45		5:49
23	21 30	81 30		5:59
24	21 15	83 30		6:15
25	19 00	84 00		6:34
26	18 30	85 30		6:47
27	18 00	87 00		6:59
28	20 30	86 30		7:20
29	22 30	85 00		7:40
30	24 00	83 30		7:57

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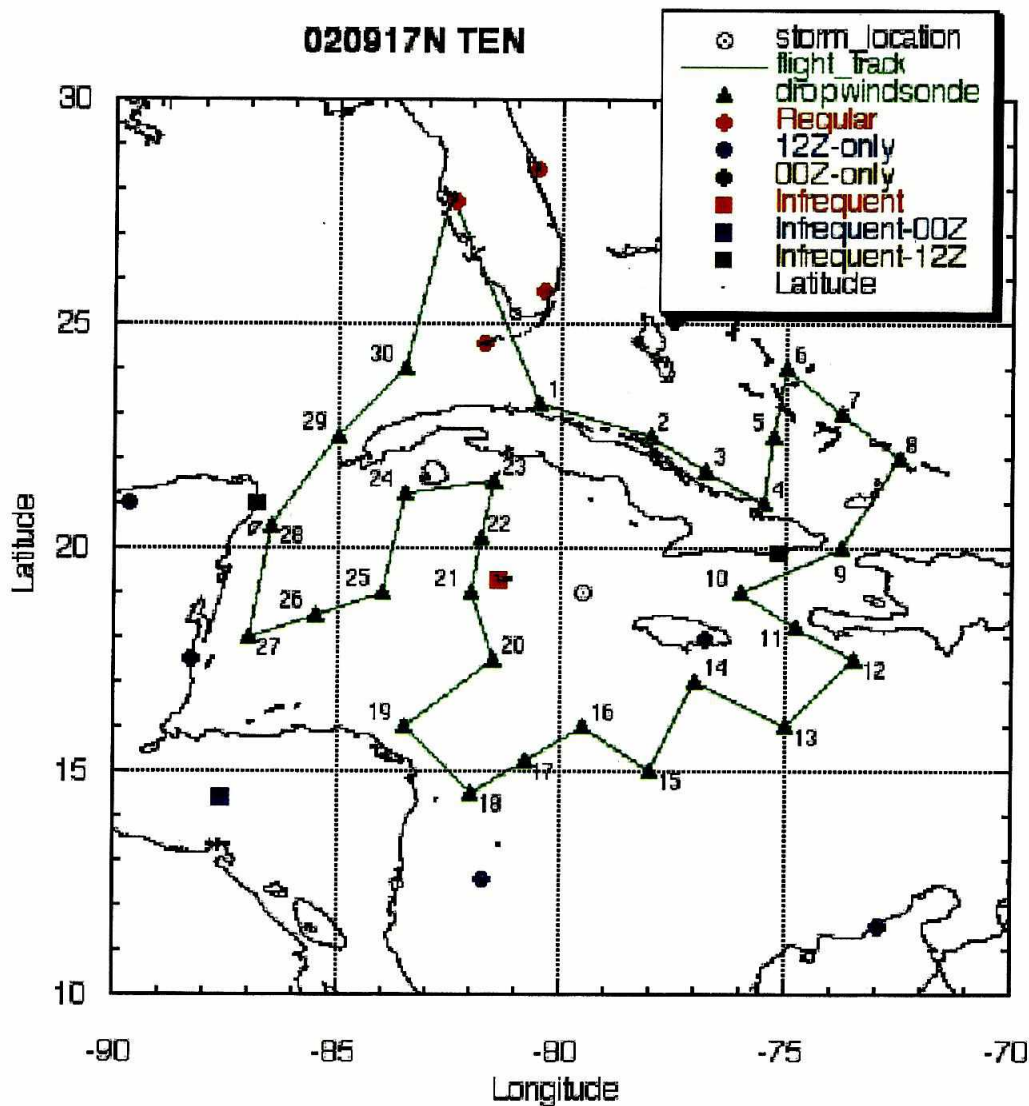
NOAA 9 0610A CYCLONE

TEAL 71 TO 00Z





020917N TEN

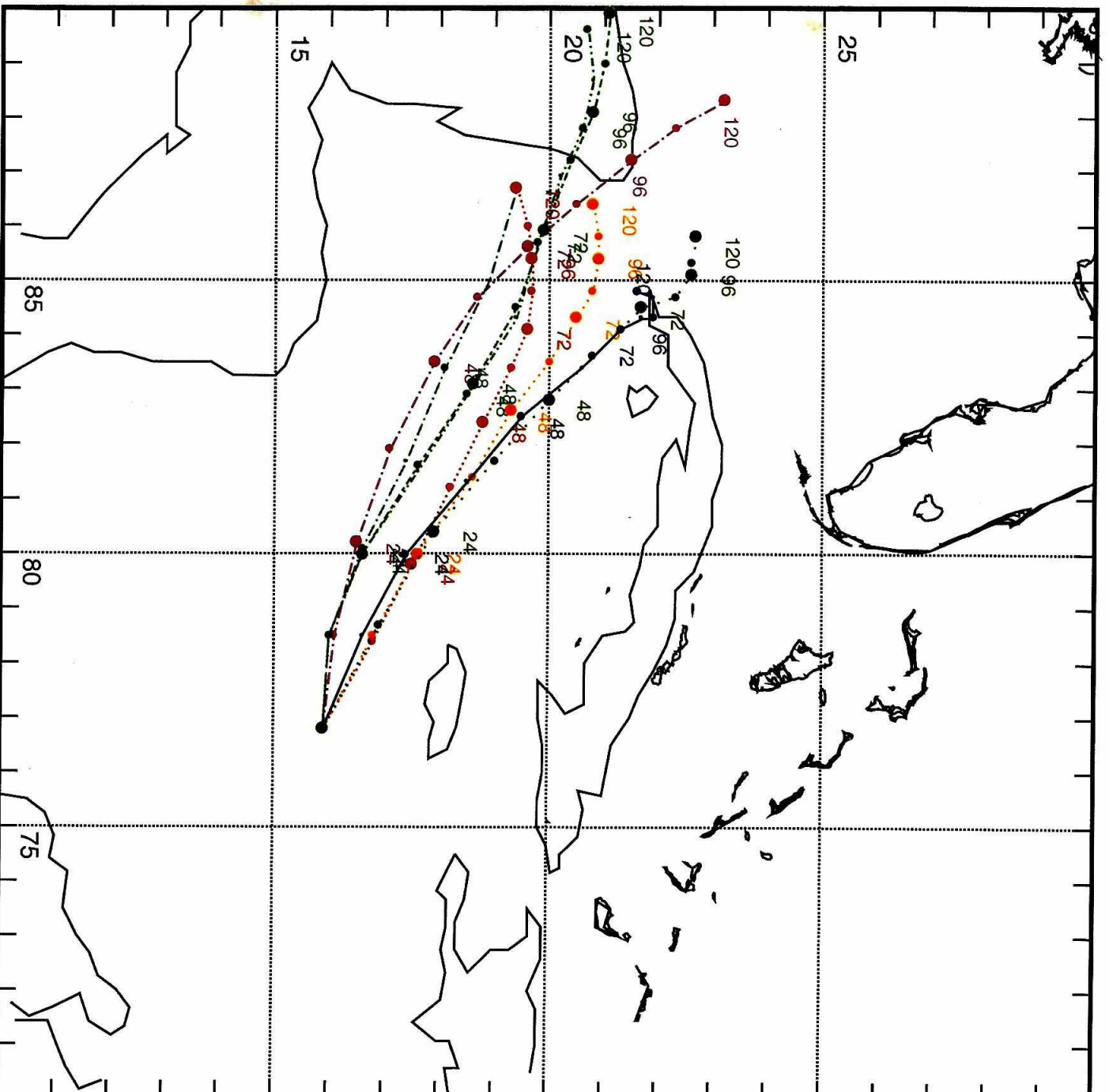


HURRICANE RESEARCH
DIVISION AOML/NOAA

TD10

9/17/02 12 UTC

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PLOTTED AT LOCAL TIME
09:14:31 17-SEP-02