

U.S. Dep't. of Commerce / NMAO / NOAA / Aircraft Operations Center

FLT ID: 080722H	From: KMCF	To: KMCF
Flt No: —	In: 0501^Z	On: 0454^Z
ETD: 2030^Z	Out: 2029	Off: 2037
ETE: 9 + 00	Blk Time: 8:32 (8.5) Hrs	Flt Time: 8:17+ (8.3) Hrs
Sponsoring Org: HAD	Program: VDR	Purpose: st. Dolly

AOC Flight Crew

Aircraft Commander: Nelson	Data System: Lynch
Co-Pilot: Newman / Eshardt	AVAPS: Smith
Navigator: Bishop /	System Engineer: Neiber
Flight Eng: Klippel / Floyd	AA McCombs, Justin
Flight Director: Karrish /	AA Scoggins, J.B.
Avionics: Sans Souci	Chief Mangalese, Antonio

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Rogers, Rob	PI	HAD
Carnache, John	Doppler	
Korshak, Paul		
Sellwood, Kathryn	Observer	
Rosen, Kyle	Observer	USN Midshipman

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Storm Name: Dolly	Recco Times	Fix #	Fix Time
	1706Z 24 14N 94 47W 990mb	0:45 call	
	1845Z 24 21N 9500W 988mb		
Mission ID: 1704A	2020Z 24 35N 95 16W 986mb		
	2330Z 24 51N 95 38W 981mb	148/65KT (low fix)	
	0038Z 24 53N 95 40W 982mb		
	0155Z 25 00N 95 50W 983mb	180/71kts and 70kts 4hr	

3 penetrations

1855Z 1955Z
35P/5 V/U
31/24 32/24
30.04 30.02
(101W)

(See reverse for additional remarks)

20 days/20mb (1 nite) 14 SVS

NOAA WP-3D N42RF

TS Dolly TDR

Flight ID: 080722H2

Sensor or System	Number or Name
INE	1
Accelerometer	1
Temperature Probe	1
Dew Point Probe	2 (General Eastern)
Altitude (for Vertical Wind)	APN-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage 1281
Time Source	Micro 99
Constants File	N42_hur08v3.adc

Notes:

Data Start Time: 203401Z. End Time: 045701Z.

TD2 replaced with TD1 000230Z-000500Z.

Processed data file: 080722H2_RXXC.nc

During the mission there were instances where the dewpoint temperature exceeded the derived ambient temperature. This occurred primarily during heavy precipitation.

	Tower	Aircraft
Take Off	1016.0	1015.8
Land		1017.8

Flight Director: Jack Parrish. (813) 828-3310, ex 3077

080722H2

240230 - 240500 → Replaced TD2 w/ TD1

psf

pgf1

WE1

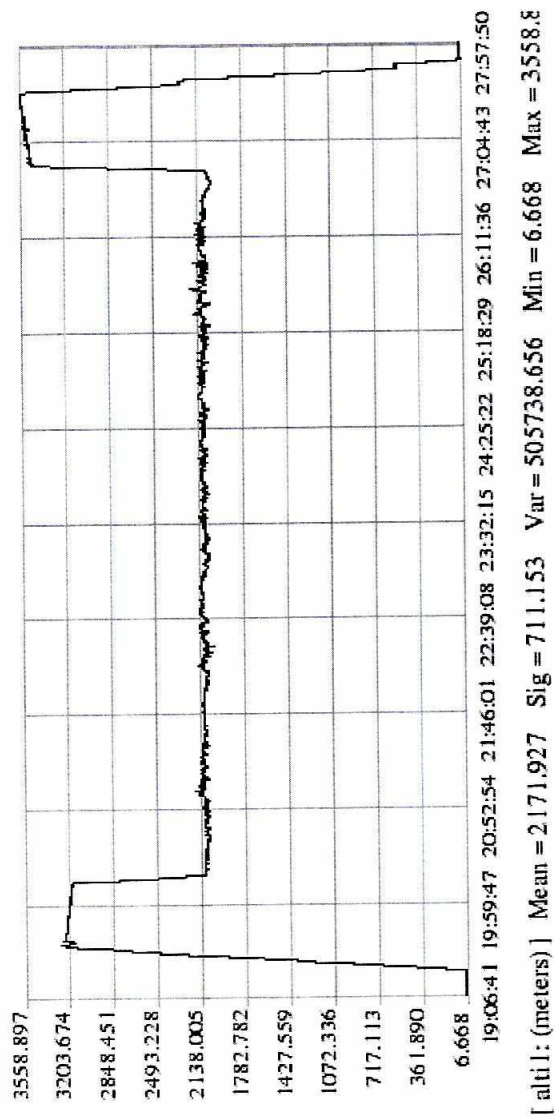
+41

+dm2

acc1

ra159

alti1: File = 080831H_R.nc Fr = 19:06:41 To = 27:57:50
Title: Project = , Flight #, Date = 08/31/2008 UTC, Time = 19:06:41-03:57:50



080722HZ 17-Dolly

Micro

N42-hw-08v3.adc

080722 203401Z 080723 045701Z

Data 053139-3200

Link H2O lead

TID 063559-064354 Bad Data

PRIORITY ← FF →		ADDRESSEE(S) 946 1490	
FILING TIME [][][][][][]		ORIGINATOR [][][][][][][][][]	
SPECIFIC IDENTIFICATION OF ADDRESSEE(S) AND/OR ORIGINATOR			
3. MESSAGE TYPE (FPL)		7. AIRCRAFT IDENTIFICATION N O A A 4 3	
9. NUMBER 0 1		8. FLIGHT RULES I	
13. DEPARTURE AERODROME K M C F		TYPE OF FLIGHT X	
15. CRUISING SPEED F 0 2 7 0		10. EQUIPMENT Shirut / c	
LEVEL F 0 1 4 0		WAKE TURBULENCE CAT. M	
TIME 2 0 3 0			
ROUTE DCT CIGAR DCT N24 30 W90 30// DELAY 6+00			
WITHIN 120 NM OF N23 00 W92 00// N0280F190 DCT CIGAR DCT MCF			
16. DESTINATION AERODROME K M C F			
TOTAL EET HR/MIN 0 9 3 0			
18. OTHER INFORMATION ALTN AERODROME K T P A			
2ND ALTN AERODROME [][][][]			
EET/ KZ/KZHU 1+00 KZHU/KZ 8+00 COM/ 243.0 MONITORED ENROUTE/SATPHONE 011-874-55122-1102 OPR/NOAA, U.S. DEPT OF COMMERCE REG/ N43RF SEL/ LMCF RMK/ TROPICAL STORM DOLLY RECONNAISSANCE			
NOT FOR TRANSMISSION			
19. SUPPLEMENTARY INFORMATION			
ENDURANCE FUEL/ 11+00		PERSONS ON BOARD POB/ 16	
EMERGENCY AND SURVIVAL EQUIPMENT 121.5 → 243 → 500 → 243		TYPE OF EQUIPMENT POLAR → DESERT → MARITIME → JUNGLE → GLOBAL → JACKETS → LIGHT → FLUORESCIN →	
DINGHIES COVER ORANGE 2/20		LIFE JACKETS RADIO FREQUENCY	
REMARKS WXR LOW NOTAMS CN/		AIRCRAFT SERIAL NUMBERS AND TYPE OF AIRCRAFT IN FLIGHT N43RF P-3	
CREW LIST [] ATTACHED [X] LOCATED AT: 813-833-1734		AIRCRAFT HOME STATION OR ORGANIZATION NOAA AOC/ KMCF	
PASSENGER MANIFEST [] ATTACHED [] LOCATED AT:		SIGNATURE OF APPROVING AUTHORITY [Signature]	
NAME OF PILOT IN COMMAND NELSON, MARK CDR		AIRCRAFT HOME STATION OR ORGANIZATION NOAA AOC/ KMCF	



NOAA HURRICANE MISSION

pt 2

CALL SIGN NOAA 43

TCPOD #: _____

Departure Base: KMCF @ Date/Time: 21 1 1800 ²⁰³⁰ Z

Route: MCF ~~ATL~~ ^{CIGAR} 243° N 9° 30' W
(Delay 6+00) CIGAR ~~ATL~~ MCF

Center Coordinates: 23 N 92 W

Radius: 120 NM ETA at OP Area (FEA) 1+30 Z

Delay in OP Area: 6+00 hrs 2200 Z

Block Altitude AGL:

☐ Surface B 5,000

☐ Surface B 11,000

☐ 4,000 B 8,000

☒ 7,000 B 11,000

~~☒ 10 B 15 K~~

Mission Type:

☐ Invest

☒ Fix

☐ Research

☒ Combined

☐ Other _____

Comms: SATCOM Number 011 874 551 221102

Squawk _____

HF Selcal LMCF (LMBF-42 or LMCF-43)

Aircraft Commander's Cell Number 813 695 7673

Notes:

TROPICAL STORM DOLLY
2012

PAUL LIGHTON

JOHN GAMMIE

KATHRYN SELLWOOD

ROB ROGERS

KYLE ROSEN

DATE		SCHEDULED FIX TIME	AIRCRAFT NUMBER	ARWO
WX MISSION IDENTIFICATION		STORM NUMBER IDENTIFIER		OB

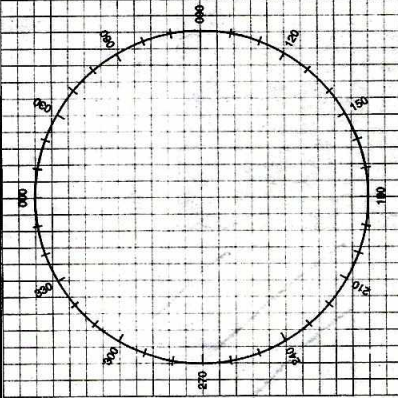
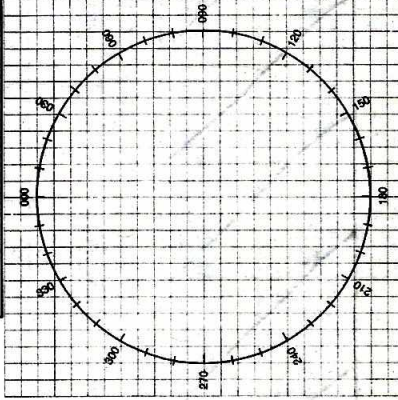
VORTEX DATA MESSAGE	
A	23/0155 DATE AND TIME OF FIX
B	25 DEG 00 MIN N S LATITUDE OF VORTEX FIX
B	95 DEG 27 MIN E W LONGITUDE OF VORTEX FIX
C	NA MINIMUM HEIGHT AT STANDARD LEVEL
D	70 ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED
E	300 10 BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND
F	18 71 MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	300 16 BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	983 MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.
I	18 2487 MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE
J	19 2484 MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE
K	17 NA DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE
L	NA EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
M	NA EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of major axis in tens of degree, i.e., 01-010 to 190; 17-170 to 350. Transmit diameter in nautical miles. Examples: C8 - Circular eye 8 miles in diameter. EO9/15/5 - Elliptical eye, major axis 090-270, length of major axis 15 NM, length of minor axis 5NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.
N	1345 NA FIX DETERMINED BY/FIX LEVEL. FIX DETERMINED BY: 1 - Penetration; 2 - Radar; 3 - Wind; 4 - Pressure; 5 - Temperature. FIX LEVEL (Indicate surface center if visible; indicate both surface and flight level centers only when same): 0 - Surface; 1 - 1500ft; 9-925mb; 8 - 850 mb; 7 - 700 mb; 5 - 500 mb; 4 - 400 mb; 3 - 300 mb; 2 - 200 mb; NA - Other.
O	1 4 NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY
P	REMARKS MAX FL WIND 71 KT W2W QUAD 0182 Z MAX OUTBOUND FL WIND _____ KT _____ QUAD _____ Z MAX OUTBOUND AND MAX FL WIND _____ KT _____ QUAD _____ Z SLP EXTRAP FROM (Below 1500 FT/ 925 MB/ 850 MB/ DROPSONDE) SFC CNTR _____ NM FROM FL CNTR MAX FL TEMP C _____ NM FROM FL CNTR SURFACE WIND OBSERVED VISUALLY

INSTRUCTIONS: Items A through G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available.

Figure 5-4. Vortex Data Message Worksheet

[illegible]

PAGE _____ **OF** _____



1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA . NOAA . NOAA

- POSITION _____ N/S _____
E/W AT _____ Z _____

- HEADING _____ TRUE/MAG _____
- AT _____ KTS TRUE/INDICATED _____

- FLIGHT LEVEL OR ALTITUDE
- WE ARE A P-3 AIRCRAFT WITH

- NATURE OF EMERGENCY
- ASSISTANCE DESIRED

- PILOT INTENTIONS
- WE HAVE _____ ENDURANCE REMAINING

[illegible]