Dolly 08072241

Lead Project Scientist

Preflight	
1.	Participate in general mission briefing.
2.	Determine specific mission and flight requirements for assigned aircraft.
3.	Determine from field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist unless briefed otherwise by field program director.
4.	Contact HRD members of crew to: a. Assure availability for mission. b. Review field program safety checklist c. Arrange ground transportation schedule when deployed. d. Determine equipment status.
5.	Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
5.	Meet with AOC flight crew at least 2 hours before take-off for crew briefing. 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).
7.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
7.	Make sure each HRD flight crew members have life vests
7.	Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.
8.	Collect "mess" fee (\$2.00) from all on-board HRD flight crew members.
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 Lead Project Scientist Form.
5.	Check in with the flight director to make sure the mission is going as planned (i.e. turns are made when they are supposed to be made).
Post flight	alaminate san Posts
l.	Debrief scientific crew.
2.	Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the
	aircraft to MGOC.
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.	Obtain a copy of the radar DAT tapes. Turn in with completed forms.
6. 7.	Obtain a copy of the all VHS videos form aircraft cameras (3-4 approx.). Turn in with completed forms.
	Obtain a copy of CD with all flight data. Turn in with completed forms.
8.	Determine next mission status, if any, and brief crews as necessary.
9.	Notify MGOC as to where you can be contacted and arrange for any further coordination required.
10.	Prepare written mission summary using Mission Summary form (due to Field Program Director a week after the flight)

060722H1

Lead Project Scientist Event Log

Date O	Flight	LPS	m.	Blat	< mp
	0				

Time	Event	Position	Comments
11051	2 IP	24,93 92,92	1 105 NM: NG
	AXBT, SONE	DE 2900	25m mLD 20
2 11/3	2 AXB4, 10	WE 24,54 93	4 28,2° 29 m
3 11183	37 AXBT, SON	de 24.34 93	166 40 m med
		28 m/s 28	
2 1120	60 AXBT Soul	De RAMW.	NE Brewall
	24,16 93.7	9 30 m/s	28.1
5 1/28	15 54e, AXB	SONPE	
CO 10 P		23,7 94,09	29
6 1/395	6 SWEYEU	C.	940
-1 101	11 8 00	25 m (S	
7 11480	11 Sonde,	midpoint	22,63 95.0)
8 11542	6 Sonde	sw endpoint	22.32 95.16
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132930 End point W 23'48' 4521,3

Lead Project Scientist Event Log

Date	Flight	I PS
Date	I IIGIIC	

Time	Event	Position	Comments
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Daller and risk miner			0.0
Olos ol ot o	030222 0102030	ca prosession	01 05 1202 03 07 12 07 10

2493
24,2 925
Mission Summary
Storm name
YYMMDDA# Aircraft 4

Mission Summary	
Storm name	
YYMMDDA# Aircraft 4_RF	
Scientific Crew (4 RF)	
Lead Project Scientist	
Radar ScientistCloud Physics Scientist	
Dropwindsonde Scientist	
Boundary-Layer Scientist	
Workstation Scientist	
Observers	
Mission Briefing: (include sketch of proposed flight track or page #)	
Mission Synopsis: (include plot of actual flight track)	
Evaluation: (did the experiment meet the proposed objectives?)	
Problems:(list all problems)	
Expendables used in mission:	
GPS sondes :	
AXBTs:	
Sonobuoys:	

Flight 050722H

Take of Time: 8:51 7

Short recording data - 0908 Z

Sonde Software updated.

Scheduled alltude: 10000 fr

ID Mossim. 1504 A Dolly

Going down to 10000 ft 10537

lat 250 151 W 92031 W

Se eing an eye on lower fuselage @ ~140 km from plane locato (250 g1 ~ g2° 201, ~10567)

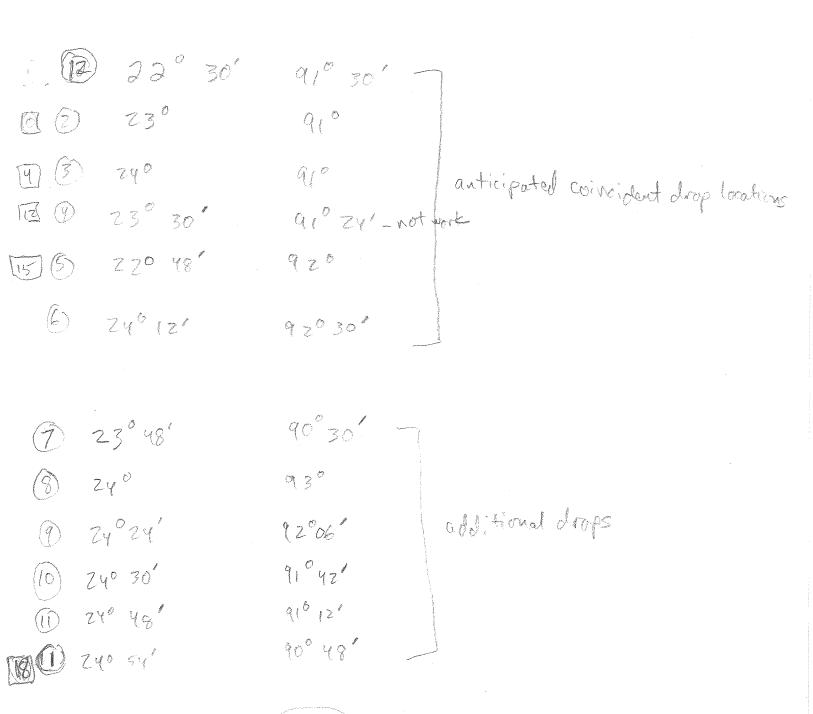
IP

leg start: 110518 @ 24.93 -92.94

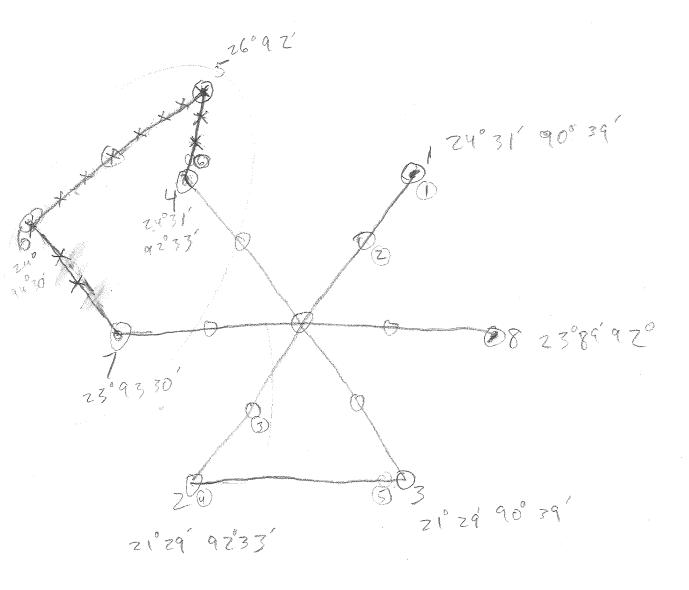
NE eyereall

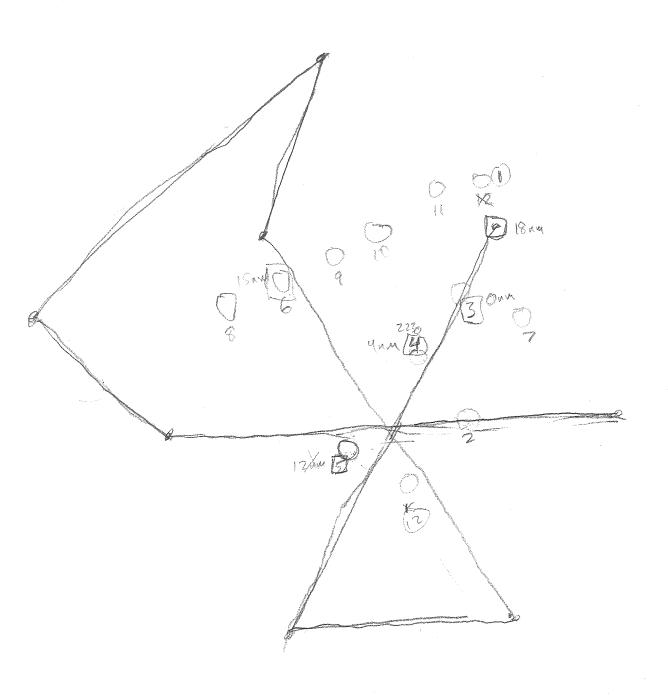
BT drop locations

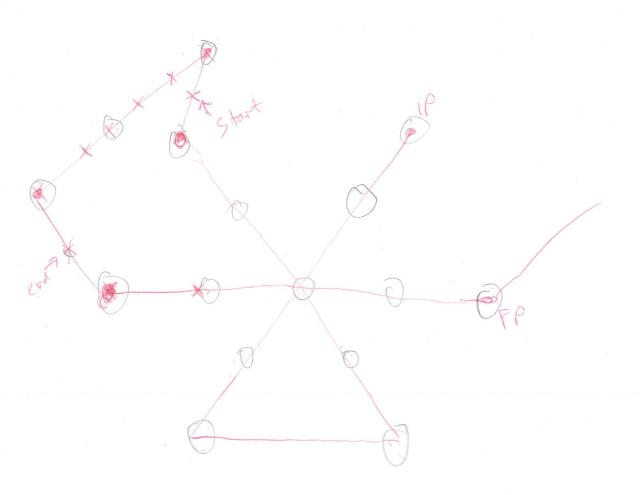
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15. 24 21	ayou	Z.	A Committee of the Comm	28.2
16, 2406	9421	14	N	·
17, 2351	94 20	14	Y	27 (backup for 16)
18. 23 36	9436	14	**************************************	z6,1



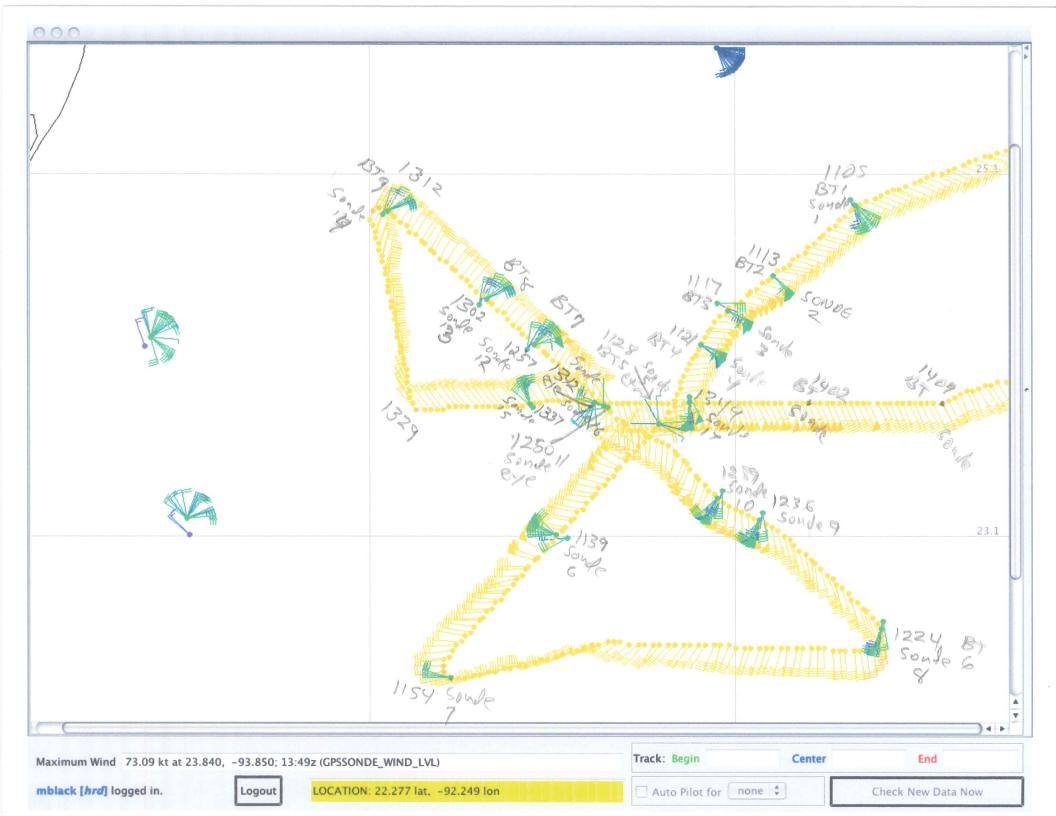
BTS

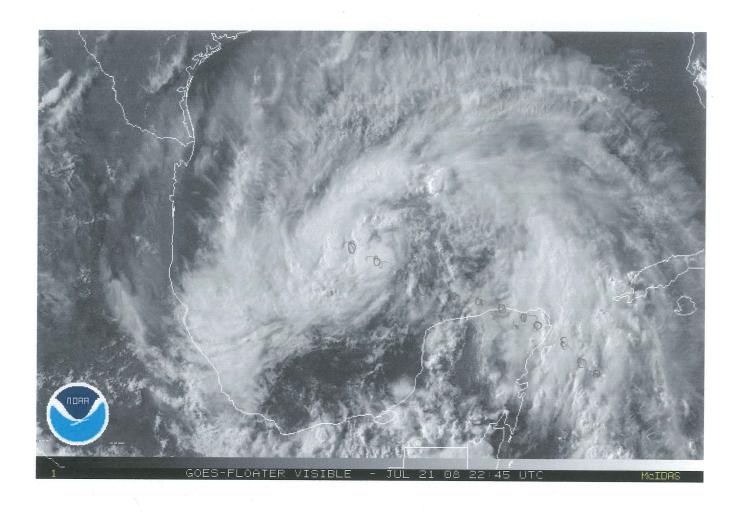


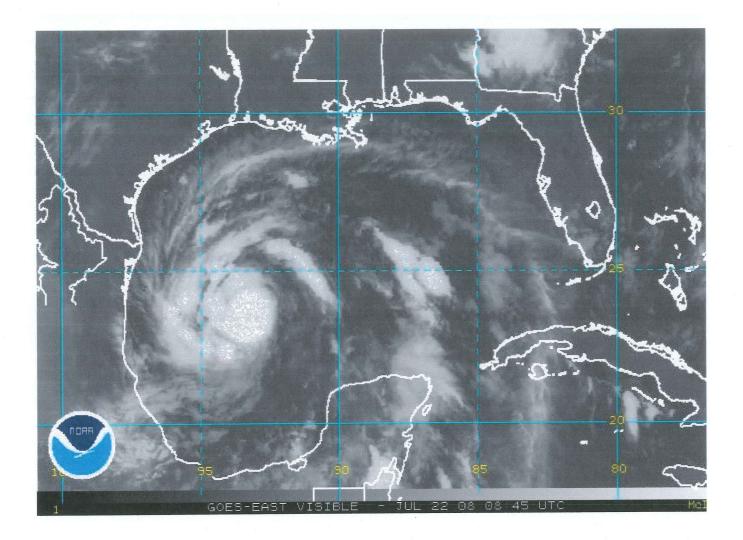




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000
WTNT44 KNHC 220833
TCDAT4
TROPICAL STORM DOLLY DISCUSSION NUMBER 8
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL042008
500 AM EDT TUE JUL 22 2008

AN AIR FORCE RESERVE UNIT HURRICANE HUNTER PLANE REPORTED THAT THE CENTRAL PRESSURE DROPPED A LITTLE...TO 997 MB. THE SEMR ON BOARD THE AIRCRAFT REPORTED WINDS NEAR 60 KT IN THE SOUTHEAST QUADRANT BUT THESE READINGS WERE IN AREAS OF HEAVY PRECIPITATION WHICH PROBABLY CAUSED SPIKES IN THE VELOCITY VALUES. WERE OVERESTIMATES BUT TAKING INTO ACCOUNT THE SLIGHTLY LOWER PRESSURE THE CURRENT INTENSITY IS ESTIMATED TO BE SLIGHTLY SATELLITE IMAGERY INDICATES THAT THE TROPICAL HIGHER...50 KT. CYCLONE IS STILL IN THE ORGANIZING STAGE WITH SOME BANDING FEATURES THERE IS A PRONOUNCED UPPER-LEVEL OVER THE WESTERN SEMICIRCLE. OUTFLOW CHANNEL EMANATING FROM THE NORTHWESTERN PART OF THE CIRCULATION THAT EXTENDS ANTICYCLONICALLY AROUND THE EASTERN SIDE OF DOLLY AND POURING SOUTHWARD INTO THE WESTERN CARIBBEAN...HOWEVER OUTFLOW IS BEING INHIBITED OVER THE SOUTHERN PART OF THE STORM BY AN UPPER-LEVEL LOW OVER THE BAY OF CAMPECHE. DYNAMICAL GUIDANCE INDICATES A MORE SYMMETRIC OUTFLOW PATTERN EVOLVING OVER THE NEXT DAY OR SO. RECENT ENHANCED IR IMAGERY SHOWS AN INCREASE IN CONVECTION NEAR/OVER THE CENTER WHICH SUGGESTS THAT FURTHER THE OFFICIAL INTENSITY FORECAST IS VERY STRENGTHENING IS IMMINENT. SIMILAR TO THE PREVIOUS ONE AND IS ABOVE THE SHIPS GUIDANCE...BUT NOT FAR FROM THE GFDL/HWRF PREDICTIONS. IT SHOULD BE NOTED THAT ONCE DOLLY ESTABLISHES AN INNER CORE...I.E. AN EYEWALL-LIKE STRUCTURE...THE RATE OF INTENSIFICATION COULD BE FAIRLY RAPID IN COMPARISON TO WHAT WE HAVE OBSERVED THUS FAR. UNLIKELY THAT DOLLY WOULD BECOME A MAJOR HURRICANE PRIOR TO LANDFALL.

FIXES FROM THE AIRCRAFT SHOW THAT THE MOTION HAS BEEN ONLY SLIGHTLY NORTH OF DUE WEST AT A SLIGHTLY SLOWER FORWARD SPEED...OR 280/13. THE TRACK FORECAST REASONING IS BASICALLY UNCHANGED. A COUPLE OF SHORT WAVE TROUGHS MOVING THROUGH THE GREAT LAKES/OHIO VALLEY REGION ARE FORECAST TO ERODE SLIGHTLY THE PORTION OF THE MID-TROPOSPHERIC RIDGE OVER EASTERN TEXAS. AS A RESULT...THE TRACK OF DOLLY IS LIKELY TO BEND TOWARD THE NORTHWEST WITH ADDITIONAL DECELERATION OVER THE NEXT DAY OR SO. THE LATEST NHC TRACK FORECAST IS NEAR OR SLIGHTLY NORTH OF THE MODEL CONSENSUS...AND A LITTLE SOUTH OF THE LATEST GFDL/HWRF TRACKS. AGAIN IT SHOULD BE EMPHASIZED THAT...DUE TO THE INHERENT UNCERTAINTIES...ONE MUST NOT FOCUS ON THE EXACT LANDFALL POINT IN THIS FORECAST.

FORECAST POSITIONS AND MAX WINDS

INITIAL	22/0900Z	23.3N	93.8W	50	KT	
12HR VT	22/1800Z	24.1N	95.1W	55	KT	
24HR VT	23/0600Z	25.0N	96.5W	65	KT	
36HR VT	23/1800Z	25.7N	97.5W	75	KTINLAND	
48HR VT	24/0600Z	26.0N	99.0W	45	KTINLAND	
72HR VT	25/0600Z	26.0N	102.0W	20	KTREMNANT	LOW
96HR VT	26/06007	DISS	STPATED			

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FORECASTER PASCH

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URNT12 KNHC 220731

VORTEX DATA MESSAGE AL042008

A. 22/07:05:20Z B. 23 deg 14 min N 093 deg 28 min W C. 850 mb 1399 m

D. 38 kt

E. 139 deg 48 nm F. 214 deg 045 kt G. 138 deg 046 nm

H. 997 mb

I. 15 C/ 1528 m Atlantic and E Pacific J. 19 C/ 1522 m K. 14 C/ NA L. NA

> M. NA N. 1345/8

O. 0.02 / 2 nm

Frequent Questions MAX FL WIND 54 KT NE QUAD 05:12:50 Z MAX OUTBOUND FL WIND 48 KT NW QUAD 0720 Z

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Turn Pt	Туре	Fix/Point	Latitude	Elev	Aspd	Calc Bank	Altitude	Temp	MH
	DTD	Description	Longitude	MV	Bank	Time Adjust	Wind	FF	MC
1	ST	KMCF/A	N 27 50.96	14FT		0	14M	-25C	045
*M		MACDILL AFB	W082 31.27	4.5W		0.0		0	045
2		CIGAR/W	N 27 29.61	unk	279T	0	20000M	-25C	265
*M		CIGAR	W084 46.99	2.9W		0.0		0	265
3		TR005045105	N 24 56.12	unk	250T	0	20000M	-25C	256
*M			W092 56.32	2.5E		0.0		0	256
4			N 23 42.00	unk	250T	0	20000M	-25C	223
*M			W094 18.00	3.3E		0.0		0	223
5		TR004225105	N 22 27.16	unk	250T	0	20000M	-25C	222
*M			W095 38.15	4.1E		0.0		0	222
6		TR004135105	N 22 27.16	unk	250T	0	20000M	-25C	085
*M			W092 57.85	2.7E		0.0		0	085
7			N 23 42.00	unk	280T	0	20000M	-25C	313
*M			W094 18.00	3.3E		0.0		0	313
8		TR004315105	N 24 56.12	unk	280T	0	20000M	-25C	312
*M			W095 39.68	3.9E		0.0		0	312

07/22/08 03:20:46

Turn Pt	Leg Time	Leg Dist	Leg Fuel
	Clock Time	Total Dist	Total Fuel
1	00+00+00	0.0	500
*M	00:00:00	0.0	9500
2	00+26+19	122.4	0
*M	00:26:19	122.4	9500
3	01+51+47	465.8	0
*M	02:18:06	588.2	9500
4	00+25+12	105.0	0
*M	02:43:18	693.2	9500
5	00+25+12	105.0	0
*M	03:08:30	798.2	9500
6	00+35+38	148.5	0
*M	03:44:08	946.6	9500
7	00+22+30	105.0	0
*M	04:06:38	1051.6	9500
8	00+22+30	105.0	0
*M	04:29:08	1156.6	9500

07/22/08 03:20:46