NOAA WP-3D N43RF
Post-Ike AXBT mission

Flight ID: 080903I

Sensor or System	Number or Name
INE	1
Accelerometer	1
Temperature Probe	1
Dew Point Probe	1 (General Eastern)
Altitude (for Vertical Wind)	APN-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage 1281
Time Source	Micro 99
Constants File	N43_hur08.adc

Notes:

Data Start Time: 134821Z. End Time: 210000Z.

King Liguid Water inop.

Processed data file: 080903I_RC.nc

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

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

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

Flt ID: 080903T	From: KMCF	To: KMCF
Flt. No: —	Blk In: 2100 Z	Time On: 2053 Z
ETD: 147	Blk Out: 1350 Z	Time Off: 1400 Z
ETE: 8 +	Blk Time: 7:10 (7.2) Hrs	Flt Time: 6:53 (6.9) Hrs
Sponsoring Org: NHC	Program: 14. Gustav Post	Purpose: BT Atten

AOC Flight Crew

Aircraft Commander:	Nelson	Data System:	Lynch
Co-Pilot:	Newman /	AVAPS:	Smith
Navigator:	Kidder / Seigel	System Eng:	Dacho
Flight Eng:	Kissel / Floyd	A A:	
Flight Director:	Parrish /	A A:	
Avionics:	Sans Souci	Crew Chief:	

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Uhlhorn Eric	BT	
James, Benjamin	BT	

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

Storm Name: Gustav

Mission ID: 2907A

As planned.

NOTES:

Recco Times

Fix # Fix Time

(See reverse for additional remarks)

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

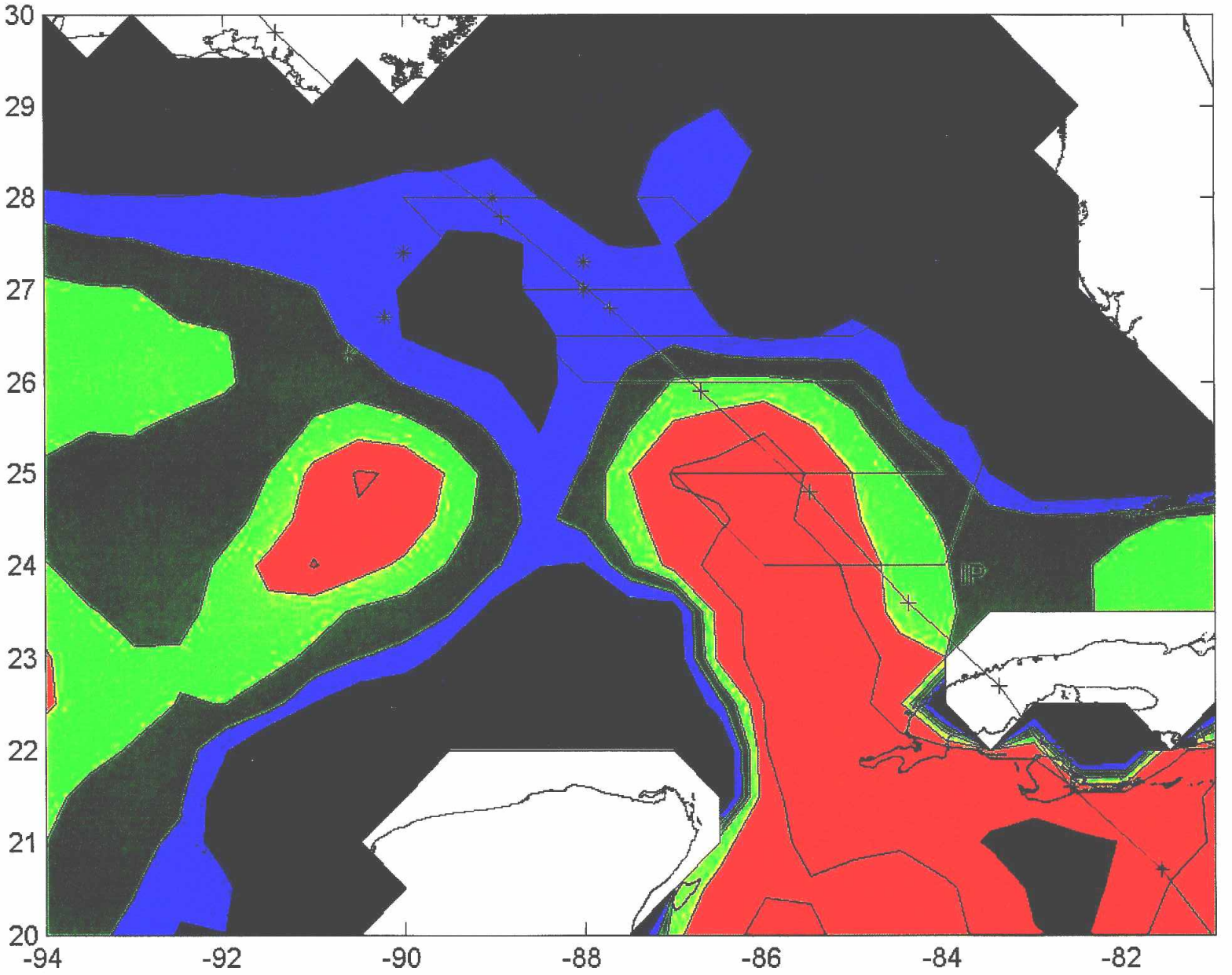
Flight ID: 080903I	Time Off: 1400 Z	Time On: Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure				

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes	4	Good: Bad:
AXBT	63	
AXCP		
AXCTD		

Remarks: TAKE OFF WEATHER: V 12552 060/11kt 26/25 29.89 (1011.5)

LANDING WEATHER: B 19 050/8 61733/23 29.83


30
29
28
27
26
25
24
23
22
21
20
-94
-92
-90
-88
-86
-84
-82

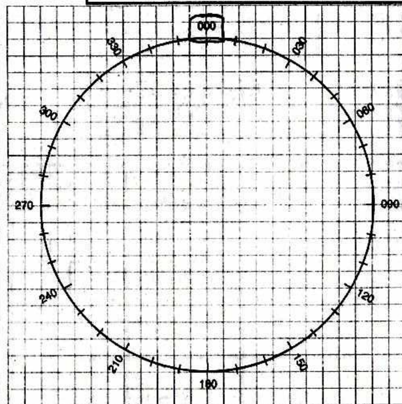
13297 .1645 RWY 04 29.83

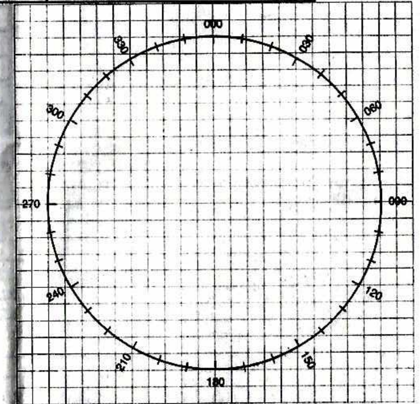
MISSION LOG

PAGE ___ OF ___

CLEARANCES

FREQ	ALT	HDG	OTHER
~~Thruson~~	~~080~~	~~1755~~ ✓	RWY 4 29.89 Info V
2630 8830	080	1731	NY Radio 631 244 2492
~~2630 8530~~		~~1818~~	120.65 118.8 7475
~~27N 86W~~	~~080~~	~~1820~~ ✓	1531 –
27N 89W	80	1858	22 30 7230
28N 90W		1915	2603 25 84 1626
BUNNZ		MIMS	2604 26 86
3676			REMIS BLONDE MACAIL
125.3			133.9
			17907
			11330 ~~8846~~ 119.65





POSITION REPORT

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

EMERGENCY MESSAGE

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 43, NOAA 42, NOAA 43

- 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 ______ SOULS ON BOARD
- NATURE OF EMERGENCY
- ASSISTANCE DESIRED
- PILOT INTENTIONS
- WE HAVE ______ ENDURANCE REMAINING

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1345	ENG STRT																				
1350	TAXI																				
1400	T/O	RWY 04 KMCF																			
1404	△	83/13	27 54 83 16	0 +1	27 54 83 17	0 +2	194	5W	189	4R	193	223	088	15	8K	220					
1417	SAC✓	0732 83 03																			
1500	△	N 24 24.0 W 83 54.3	24 23.3 83 54.6		24 24.1 83 54.5		195	3W	192	2L	190	271	054	11	080	261					
1537	C	COMMS w/ NY	POSIT REP																		
1600	△	25N 8607	25 8608	0 -1	25 2607	0 0	096	2W	094	4L	090T	255	123	8	080	262					
1645	C	POSIT REP	At PLUMR																		
1700	△	2602 8618	2602 8618	-1 0	2601 8619	+1 -1	271	2W	269	0	269T	242	071	9	8K	238					
1736	C	NY RADIO POSIT																			
1800	△	2620 8617	2633 8618	-13 -1	2620 8618	0 -1	098	2W	097	6L	091	251	180	7	8K	250					
1823	C	NY POSIT																			
1900	C	NY POSIT																			
1903	△	2722 8922	2727 8924	-5 -2	2721 8920	+1 +2	318	0	318	1R	319	262	106	7	8K	255					
2006	△	2758 8554	2807 8550	-9 +2	2754 8551	+4 +1	106	2W	104	8L	099T	262	189	6	8K	260					

2700 Radios 1722nm 7+00 hr Flight Time

MISSION LOG | **PAGE 2 OF 3**

FIX TYPES
(G) - GPS (I) - INS (R) - RADIO (V) - VISUAL (C) - CELESTIAL (D) - DR

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
	LAND	KMCE																			

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION	MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
KMCF	PMA GUSTAV	KIDDER	NELSON	PARRISH	1400 / 1400	03 SEP 2005

WP	LAT / LON	RTE	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARKS

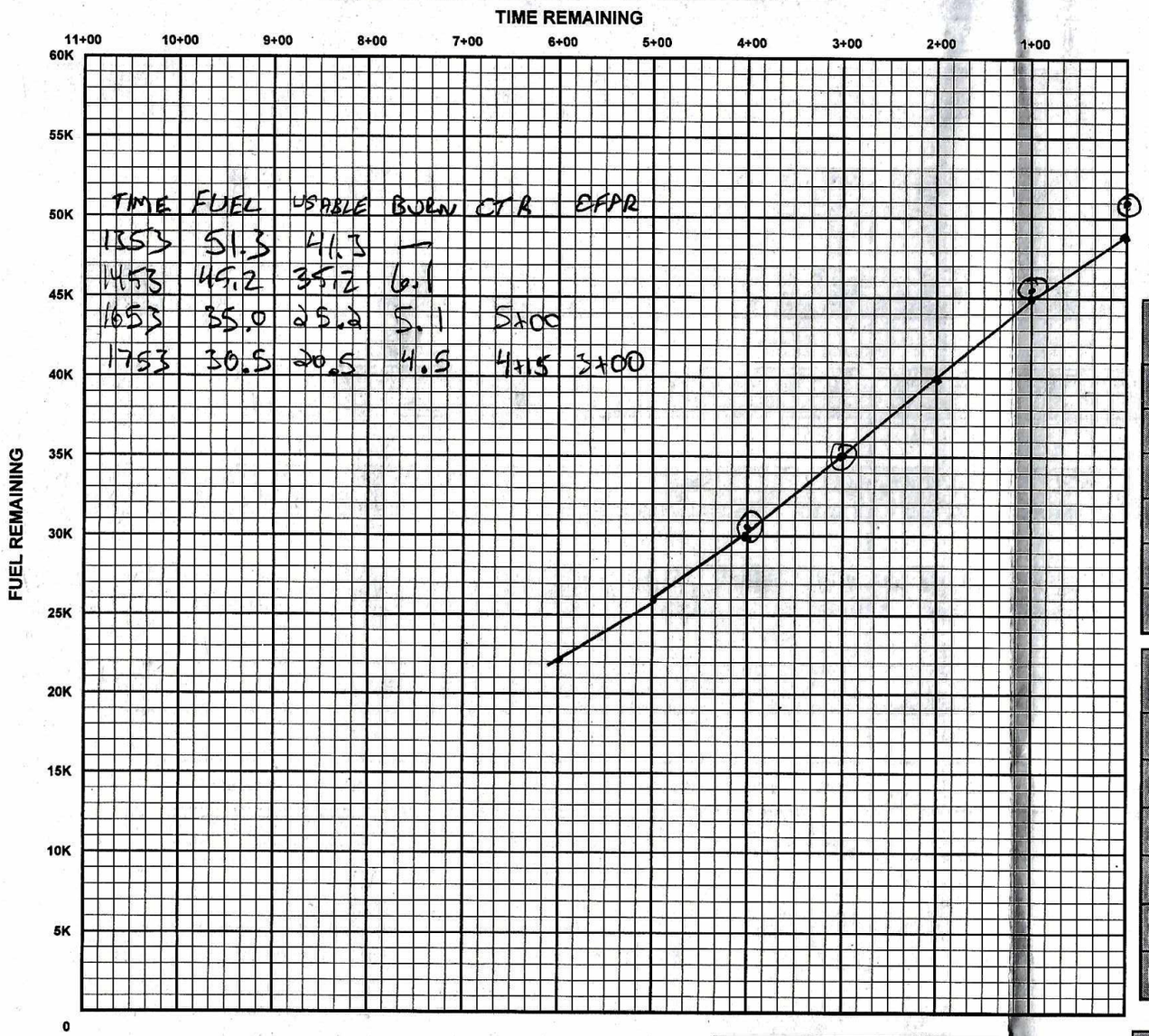
INS PERFORMANCE	INS 1	INS 2
BEGIN ALIGN TIME		
ALIGN STATUS (0-5)		
END NAV TIME		
START NAV TIME		
DELTA T		

TERMINAL ERRORS	INS 1	INS 2
DELTA LAT		
DELTA LON		
RGS		
RADIAL ERROR		

REMARKS

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
AIRCRAFT OPERATIONS CENTER

RANGE CONTROL GRAPH



ETP = .5(TOTAL DISTANCE x OUTBOUND WIND FACTOR)

WIND FACTOR		
WINDSPEED	HEADWIND	TAILWIND
10	1.03	.97
20	1.06	.94
30	1.10	.92
40	1.14	.89
50	1.18	.87
60	1.22	.85

ENROUTE FUEL	
ENROUTE TIME	7+30
ENROUTE FUEL (6K 5K 4.5K RULE)	38.5
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	48.5
ACTUAL RAMP FUEL	51.3

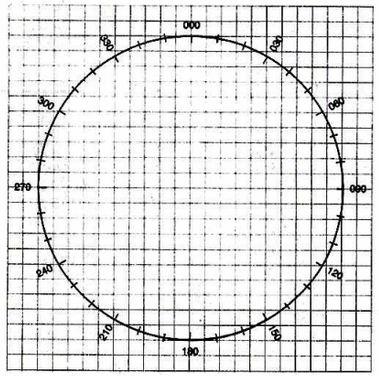
TACTICAL (OFFSTA TO DESTINATION)	4 ENG	3 ENG
DISTANCE (OFFSTA TO DEST)		
ENROUTE TIME (OFFSTA TO DEST)		
BURN RATE (LBS/HR)	4500	5500
ENROUTE FUEL REQUIRED		
RESERVE AT DESTINATION		
FUEL AT OFFSTA		

POINT OF SAFE RETURN	4 ENG	3 ENG
ETP DISTANCE (TO DEPARTURE)		
ENROUTE TIME (TO DEPARTURE)		
BURN RATE (LBS/HR)	4500	5500
FUEL REQUIRED		
RESERVE AT DEPARTURE		
PSR FUEL		

CEX - TRUE BEARING METHOD			
COMPASS TYPE	INS1	INS2	WET
MCH (READING)			
- MTH (SEXTANT)			
CE			
- VAR			
DEV			

CEX - ERB METHOD			
COMPASS TYPE	INS1	INS2	WET
MERB (DIAL 000)			
+ ZN			
= MTH			
MCH (READING)			
CE			
- VAR			
= DEV			

CEX SIGHT	
GMT	
GHA	
CORR	
GHA	
LONG +W -E	
EXACT LHA	
LAT	
BODY	
DEC	
HC / D	
CORR	
HC	
Z	
ZN	



"F" FACTOR	PRESS ALT	200	250	300	350
	10,000	1.0	1.0	.99	.99
	20,000	.99	.98	.97	.97
	30,000	.97	.96	.95	.94
	40,000	.96	.94	.92	.90

TRUE AIRSPEED CROSS-CHECK							
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS	ITAS
1418	230	8K			+13	264	265