

NOAA P-3 N43RF

Tail Doppler Radar Ike



Flight ID: 080912I

Sensor or system

INE
Accelerometer
Temperature Probe
Dew Point Probe
Altitude (for vertical wind)
Static Pressure
Dynamic Pressure
Time Source
Constants File

Number or Name

1
1
1
2 (EdgeTech)
Blended GPS (alti1)
Rosemount Fuselage PSF
Rosemount Fuselage PQF1
Micro99
n43_hur08.adc

Notes:

There were no time/data gaps during this flight.

Due to hardware changes in some of the navigational equipment, a number of parameters have been adjusted in the netCDF file. RA159 and ALTI1 both display the blended altitude solution of the GPS/RINU system, RA232 displays the corrected HG9550 radar altitude, ALTI2 displays the uncorrected HG9550 radar altitude, and ALTCLN displays the NOVATEL radar altitude data.

Temperature data from sensor number 3 is erroneous.

There was an ~40 mb difference in differential attack pressure between the fuselage and radome.

There was an ~17 mb difference in differential sideslip pressure between the fuselage and radome. As the flight progressed, the difference decreased to ~8 mb.

No Collins or Ashtech GPS data exist for this flight.

The King Liquid Water Sensor was inoperative throughout the flight.

Due to oversaturation, relative humidity values occasionally spike above 100%. Corrections to dewpoint sensor number 2 were made from 131950Z-132022Z, 140213Z-140243Z, 141454Z-141523Z, and 141610Z-141640Z. A correction was also made to total temperature number 1 from 141454Z-141523Z.

Dewpoint sensor number one displayed erroneous spikes during the following times: 141500Z-142130Z.

SPECIAL NOTE!!! Vertical ground, vertical air and vertical speeds, computed using Dave Jorgensen's vertical wind algorithm should be used for vertical wind analysis.

	Takeoff 1032Z	Land 1904Z
Aircraft Static Pressure	1016.5 mb	1014.8 mb
Corrected Tower Pressure	1016.9 mb	1014.9 mb

Flight Director:

Martin Mayeaux (813) 828-3310 ext. 3086

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Flt ID: 080912I	From: Kmcf	To: Kmcf
Flt. No: 08-048	Blk In: 1910 z	Time On: 1904 z
ETD: 0800 z	Blk Out: 1019 z	Time Off: 1032 z
ETE: 9 + 30	Blk Time: 8 + 51 (8.9) Hrs	Flt Time: 8 + 32 (8.5) Hrs
Sponsoring Org: NCEP/NHC/emc	Program: Tail Doppler Radar	Purpose: Ike

AOC Flight Crew

Aircraft Commander: Choy, B	Data System: Lynch, T
Co-Pilot: Elhardt, A / Taggart, B	AVAPS: Smith, J
Navigator: Bishop, J / Kidder, R	System Eng:
Flight Eng: Floyd, D / Klippel, J	AA: Naehar, D
Flight Director: Mayeaux, M	AA:
Avionics: San Souci, D	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Black, M	Sci	HRD
Doist, N	Sci	HRD
Dunham, J	Sci	HRD
Jaimes, B	Sci	UMASS
Baldi, C	Sci	Prosening
Sarris, Kristen	Obs	Commerce Committee Staff
Taylor, S	Obs	AOC medical

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)		<u>Recco Times</u>	<u>Fix #</u> <u>Fix Time</u>
Storm Name:	27.1N 92.1W 290/10		1308 z
Mission ID: NOAA3 3109A IKE	Teal 71 3/6/9 z Teal 70 12/5/18 Departing BIX 0930z	} 10000 ft	1424 z
Penetration number and time	Unofficial Positions via XChat 50-60nm RMW		1541 z
20 BTS externally Loaded 1142 2655 9005 954-23	2600s of smoke Low Level Run over Bay		1639 z

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Flight ID: 080912I		Time Off: 1032 Z		Time On: Z	
A/C: Takeoff		Wx Station: Takeoff		A/C: Land	
Wx Station: Land					
Pressure	1016.6 mb	3003 mb	1014.8 mb	29.98 mb	
ATIS	Time	Observation			
Takeoff	0959Z	09007KT 105m BKN011 26/25 A3003			
Land	1755Z	13008KT 105m BKN050 33/29 A3002			
	Number	Data Disposition / Date / Quality			
Flight Level Tapes					
Radar Tapes					
Cloud Physics Tapes / CDs					
Video Tapes					
Dropsondes	17	Good: Bad: 0 6WHC 11 HRO			
AXBT	20	4 ASD			
AXCP					
AXCTD					

Remarks:

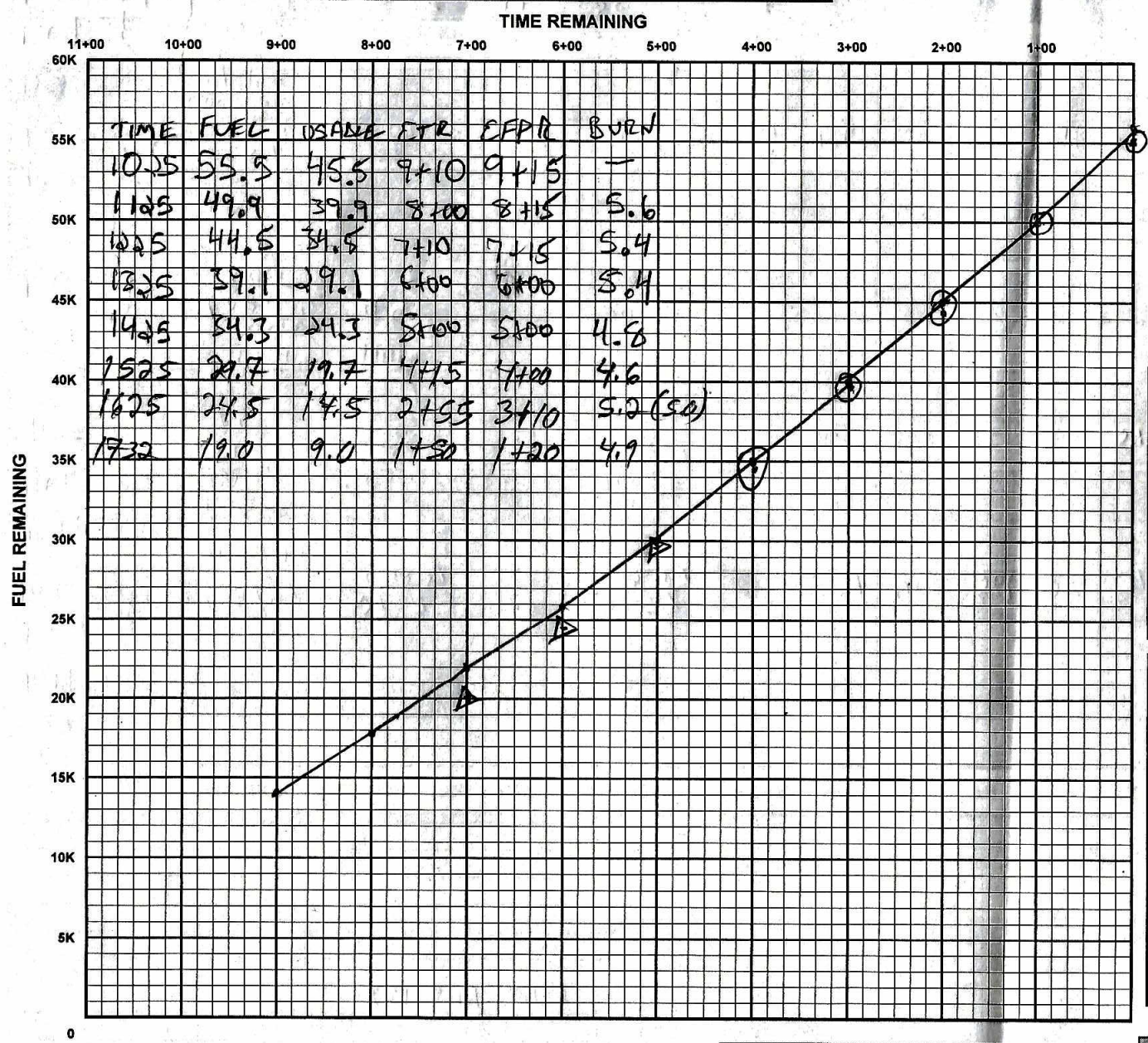
Flight delayed 2.5 hours due to broken APU door

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1800' MOSA Towers Southern Lewis

13K

RANGE CONTROL GRAPH



DISTANCE REMAINING

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	9+15
ENROUTE FUEL (6K-5K-4-5K RULE)	46
RESERVE AT DESTINATION	10
REQUIRED RAMP	56
ACTUAL RAMP FUEL	55.5

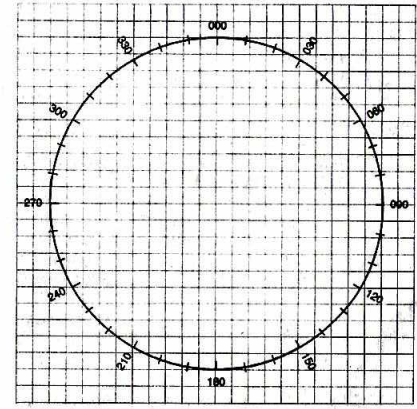
TACTICAL (OFFSTA TO DESTINATION)		
	4 ENG	3 ENG
DISTANCE (OFFSTA TO DEST)		
ENROUTE TIME (OFFSTA TO DEST)		
BURN RATE (LBS/HR)	4500	5500
ENROUTE FUEL REQUIRED		
RESERVE AT DESTINATION		
FUEL AT OFFSTA		

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

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



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
1049	218	12K			+5	269	272

MISSION PREFLIGHT LOG							NAVIGATOR		AIRCRAFT COMMANDER		FLIGHT DIRECTOR		SCHEDULED / ACTUAL TAKEOFF Z		DATE OF TAKEOFF			
DESTINATION KMCF			MISSION				KIDDER		CHOY		MAYEAUX		0800' 1032z		12 SEP 2008			
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 (0-9)		

Turn Pt	Type	Fix/Point	Latitude	Longitude	Elev	ASad	Cate Bank	Altitude	Temp	MH
	DTD	Description			MM	Bank	Time Adjust	Wind	FF	MC
1	ST	KMCF/A	N 27 50.96	14FT			0	14M	-90	045
	*M	MACDILL AFB	W082 31.27	4 SW			0.0		0	045
3			N 29 06.00	unk	270T	0		8000M	-10	275
	*M		W092 06.00	1.6E		0.0			0	275
5			N 27 06.00	unk	245T	0		8000M	-10	043
	*M		W089 51.00	0.4E		0.0			0	043
7			N 25 28.00	unk	245T	0		8000M	-10	148
	*M		W093 22.00	2.7E		0.0			0	148
9			N 28 17.00	unk	245T	0		8000M	-10	265
	*M		W093 25.00	2.5E		0.0			0	265
11		MCF/T	N 27 51.67	14FT	270T	0		13000M	-110	072
	*M	MACDILL	W082 30.81	4 SW		0.0			0	072

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
3	01+11+17	320.3	0
	*M 01:54:57	517.3	9500
5	00+41+46	170.5	0
	*M 03:35:20	927.1	9500
7	00+26+42	109.0	0
	*M 05:00:50	1276.2	9500
9	00+37+44	154.1	0
	*M 06:36:50	1668.3	9500
11	01+41+54	458.5	0
	*M 09:07:40	2326.6	9500

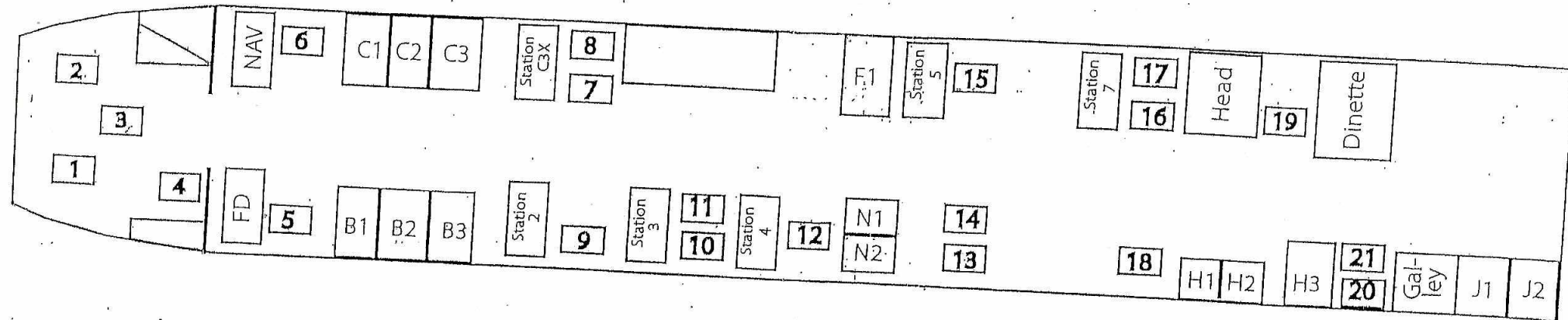
Flight ID : 0809121

Launcher S/N: _____

26.23 9200 27.01 9237 27.02 9221

NOAA AIRCRAFT OPERATIONS CENTER

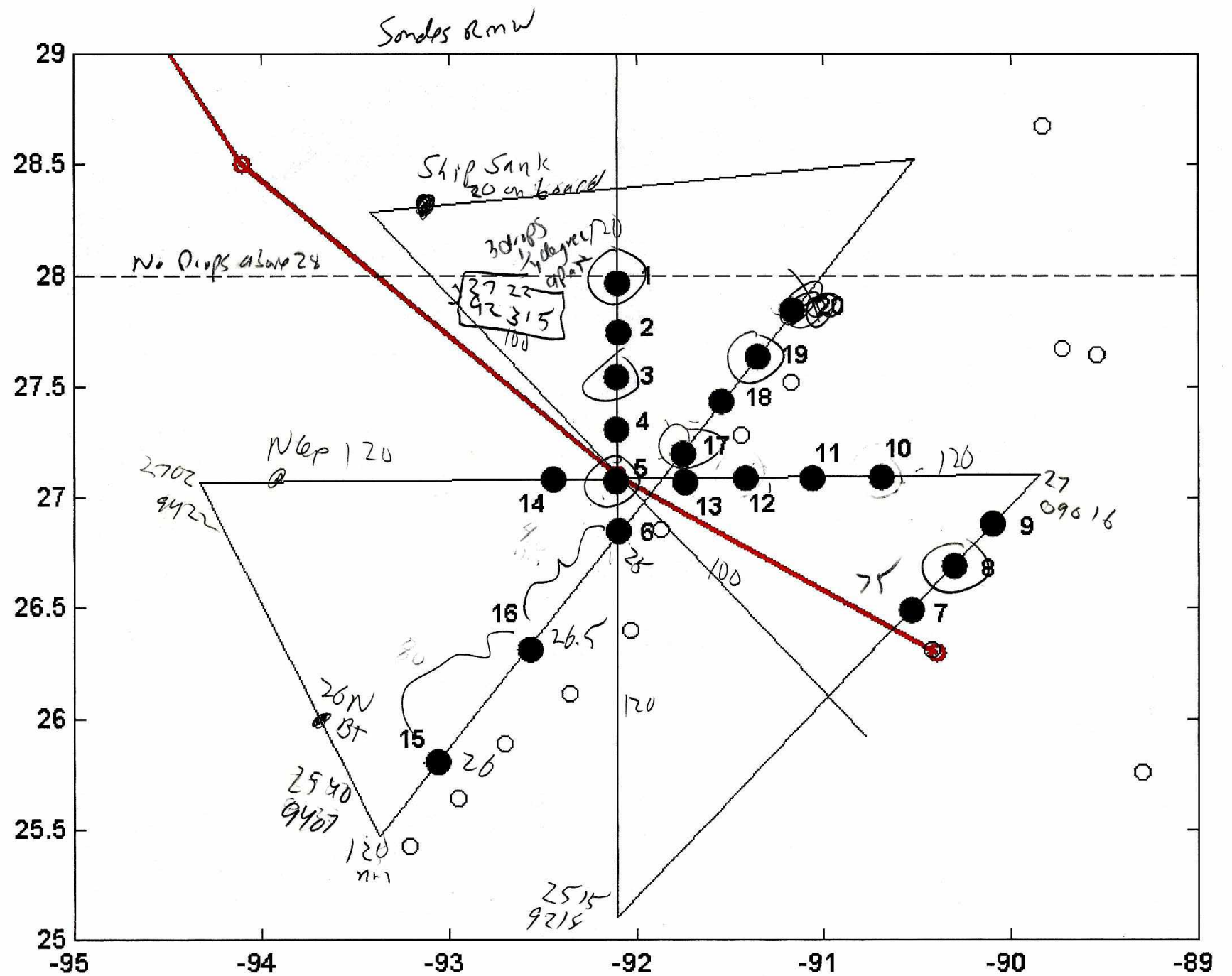
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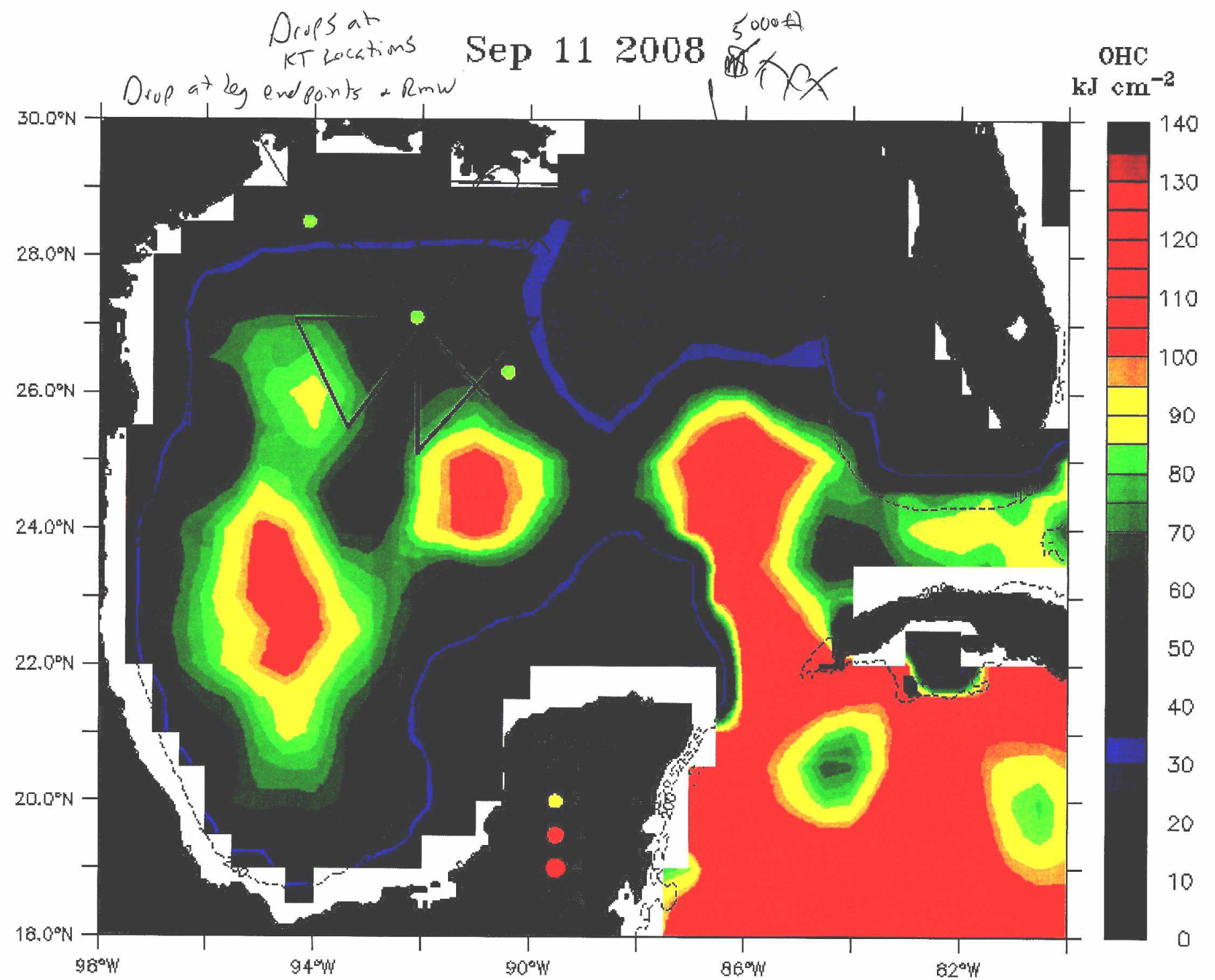


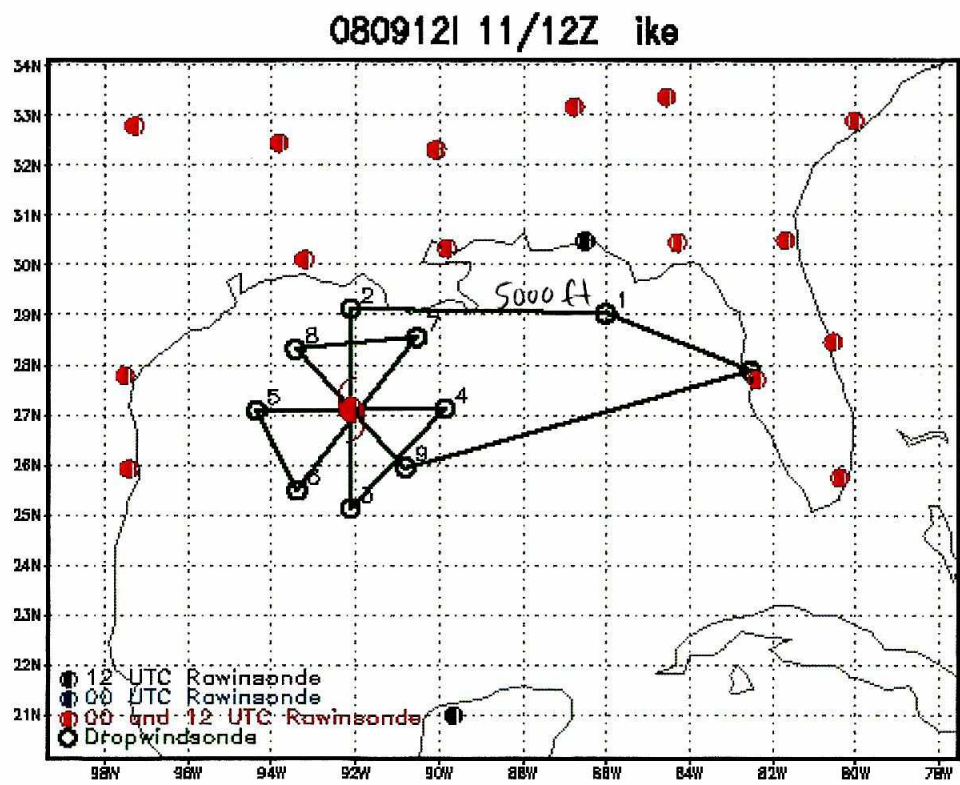
1. Choy, B
PILOT
2. Taggart, B
COPILOT
3. Klippel, J
FLIGHT ENGINEER
4. Sarris, K
STATION 1
5. Mayeaux, m
FLIGHT DIRECTOR
6. Bishop, J
NAVIGATOR
7. Dunton, J
STATION C3X

8. Lynch, T
STATION C3X
9. James, B
STATION 2
10. Black, m
STATION 3
11. Dorsten
STATION 3
12. Naehar, D
STATION 4
13. _____
PROJECT SEAT
14. Kidder, R
PROJECT SEAT

15. Smith, J
STATION 5
16. Floyd, O
STATION 7
17. Baldi, C
STATION 7
18. San Souci, O
STATION 8
19. Ebbhardt, A
DINETTE
20. Taylor, S
GALLEY
21. _____
GALLEY







GADS COLA/IBES

2008-08-11-23:17