

NOAA WP-3D N43RF

Hurricane Ike TDR

Flight ID: 080831I

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: 075451Z. End Time: 151650Z.

Data/time gaps the following times:

083111Z-3120Z, 084421Z-4430Z, 102021Z-2040Z, 102631Z-2640Z, 104421Z-4430Z,
110121Z-0130Z, 110440Z-0446Z, 112201Z-2210Z, 120800Z-0804Z, 123841Z-3900Z,
124721Z-4730Z, 132141Z-2150Z, 134431Z-4450Z, 142111Z-2130Z.

These gaps can result in erroneous vertical winds around the gap periods.

King Liquid Water inop.

Processed data file: 080831I_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

1505Z

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

Flt ID: 080831E	From: KMCF	To: KMCF
Flt No: —	Blk In: 1515 Z	Time On: 1508 Z
ETD: 08Z	Blk Out: 0757 Z	Time Off: 0808 Z
ETE: 8+	Blk Time: 7:18 (7.3) Hrs	Flt Time: 7:00 (7.0) Hrs
Sponsoring Org: OHC	Program: TDA	Purpose: A. Gustav

AOC Flight Crew

Aircraft Commander: Nelson	Data System: Lynch
Co-Pilot: Newman, Elhardt	AVAPS: Smith
Navigator: Rieder, Gallagher	System Eng: Naeher
Flight Eng: Floyd, Klippel	A A:
Flight Director: Parrish	A A:
Avionics: Sans Souci	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Uhlhorn	P. I.	ITRD
Klimavicz	Obs	NOAA CIO
Zhang, J.	Obs	ITRD
Marks	Obs	ITRD
Able	BD3	ITRD
Leighton	Radar	ITRD

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

Storm Name: Gustav

MAF 27 51.0 82 29.6

Mission ID: 2007A

NOTES:

Recco Times

Fix # Fix Time

Fix 1 0953Z 2418N 8506W 958 mb

Fix 2 1108Z 2431N 8516W 959.9 mb

Fix 3 1222Z 2446N 8529W 967.1 mb

Fix 4 1348Z 2502N 8545W 962 mb

(See reverse for additional remarks)

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Flight ID: 080831I

Time Off: 0808 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

Good: Bad:

AXBT

AXCP

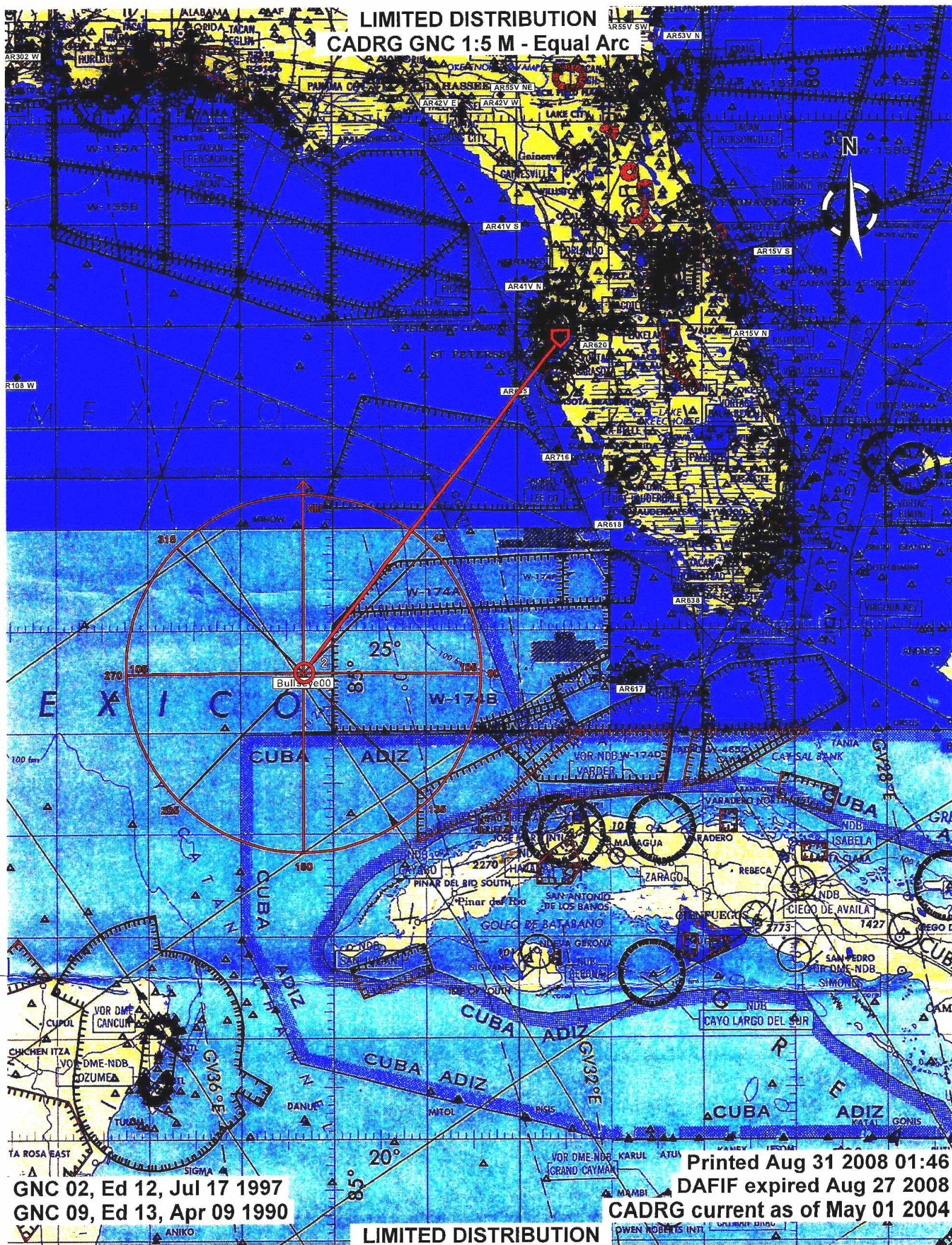
AXCTD

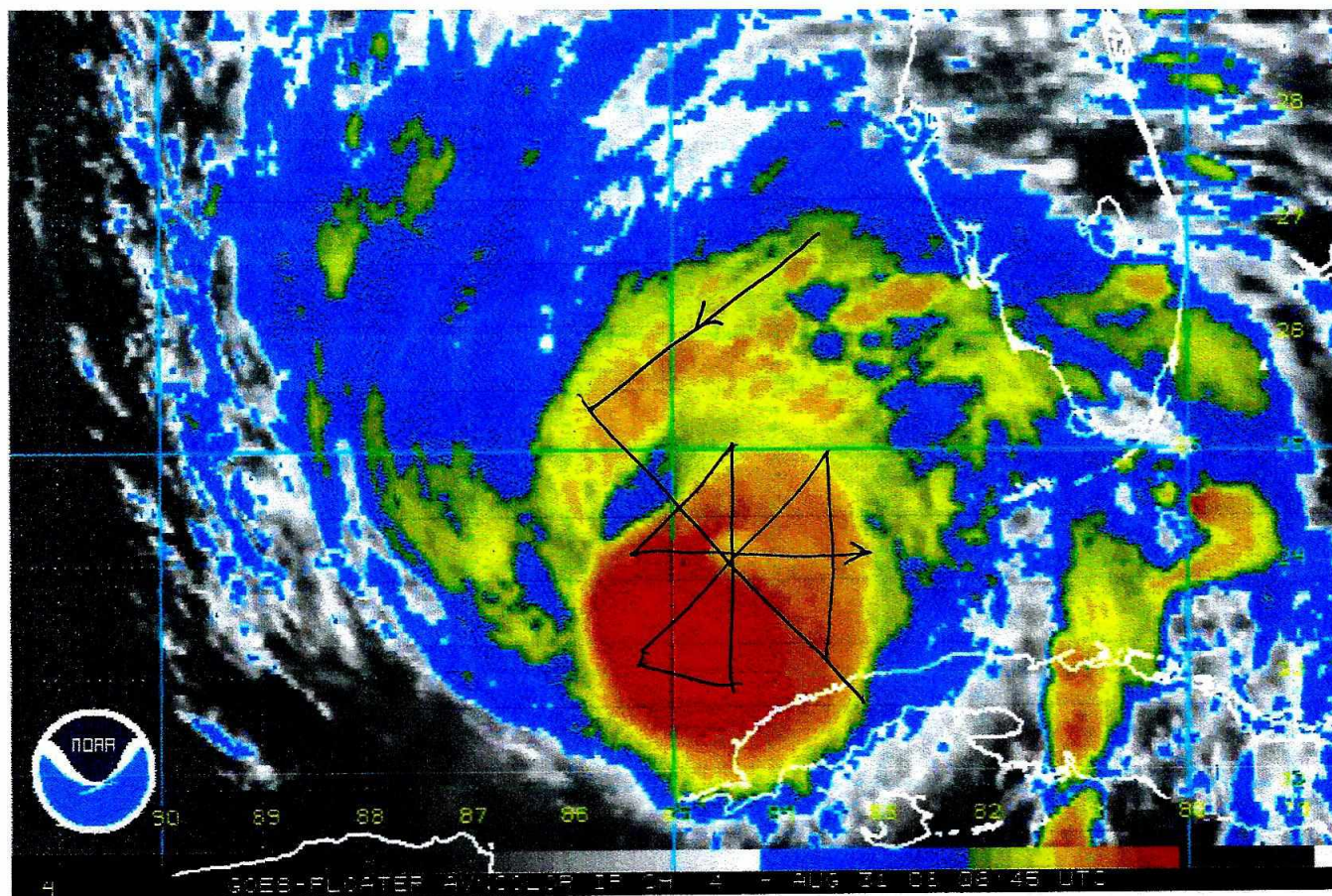
Remarks:

TAKE OFF WEATHER: 070/14/kt

LANDING WEATHER: 1K 1437Z 08019627 28/25 29.83

LIMITED DISTRIBUTION
CADRG GNC 1:5 M - Equal Arc





ETA

094 914

MISSION LOG

PAGE ____ OF ____

POSITION REPORT

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 243.0 VHF/VOICE 121.5 MF/VOICE 2182 KHZ HF/CW 8364 KHZ MF/CW 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 _____

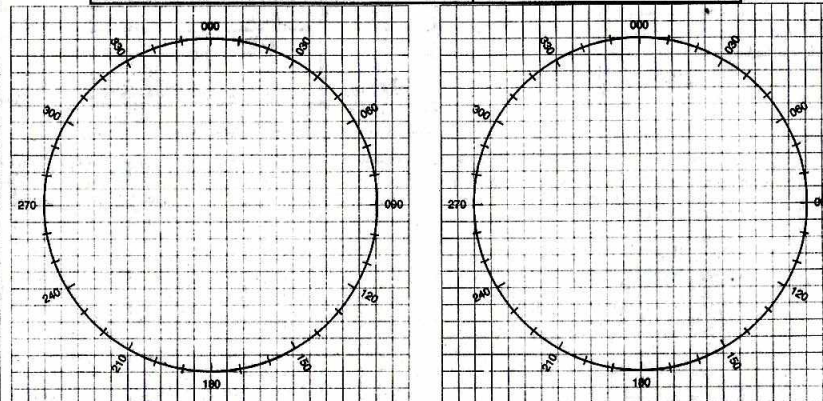
- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD

- NATURE OF EMERGENCY _____

- ASSISTANCE DESIRED _____

- PILOT INTENTIONS _____

- WE HAVE _____ ENDURANCE REMAINING



CLEARANCES			
FREQ	ALT	HDG	OTHER
			0 080 1600 120
			135.5 2667
			86W 128.77
			HE 6586 5520
			LMCE
			631 244 2492
			135.7 132.9 132.3
			135.77 Houston
			135.1 Houston 124.83-
			29.82 02101

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
0751	ENB START																				
0756	TAXI	RUN 04																			
0807	T/O																				
0811	Δ	090/07	27.50.1	0	27.50.1	0	2451	SW	239	0	245	234	121	26	410	330	1				
0825	SAK✓																				
0837	DR0BS	814.50W																			
0830	C	MIAMI																			
0900	Δ	26.33	26.33	+1	26.33	0	243	DW	241	32	244	303	074	37	131	261	1				
0939	C	Relay NY RADIO	2504		085.59																
0948	Δ	24.39	24.39	+1	24.39	0	244	DW	120	80	130	237	086	60	60	203	4				
0952 ⁴⁵	Δ	24.18.6	24.18.6		8506.7																
1045	Δ	25.37	25.37	+1	25.37	0	243	DW	210	102	220	251	131	54	132	255	4				
1108	Δ	24.30.8	24.30.8		8517.5																
1124	C	HAU																			
1136	C	HAUANA																			
1148	Δ	22.59	22.59	0	22.58	0	104	DW	103	5R	097	297	270	58	6	206					

J8

255

23 15

8642

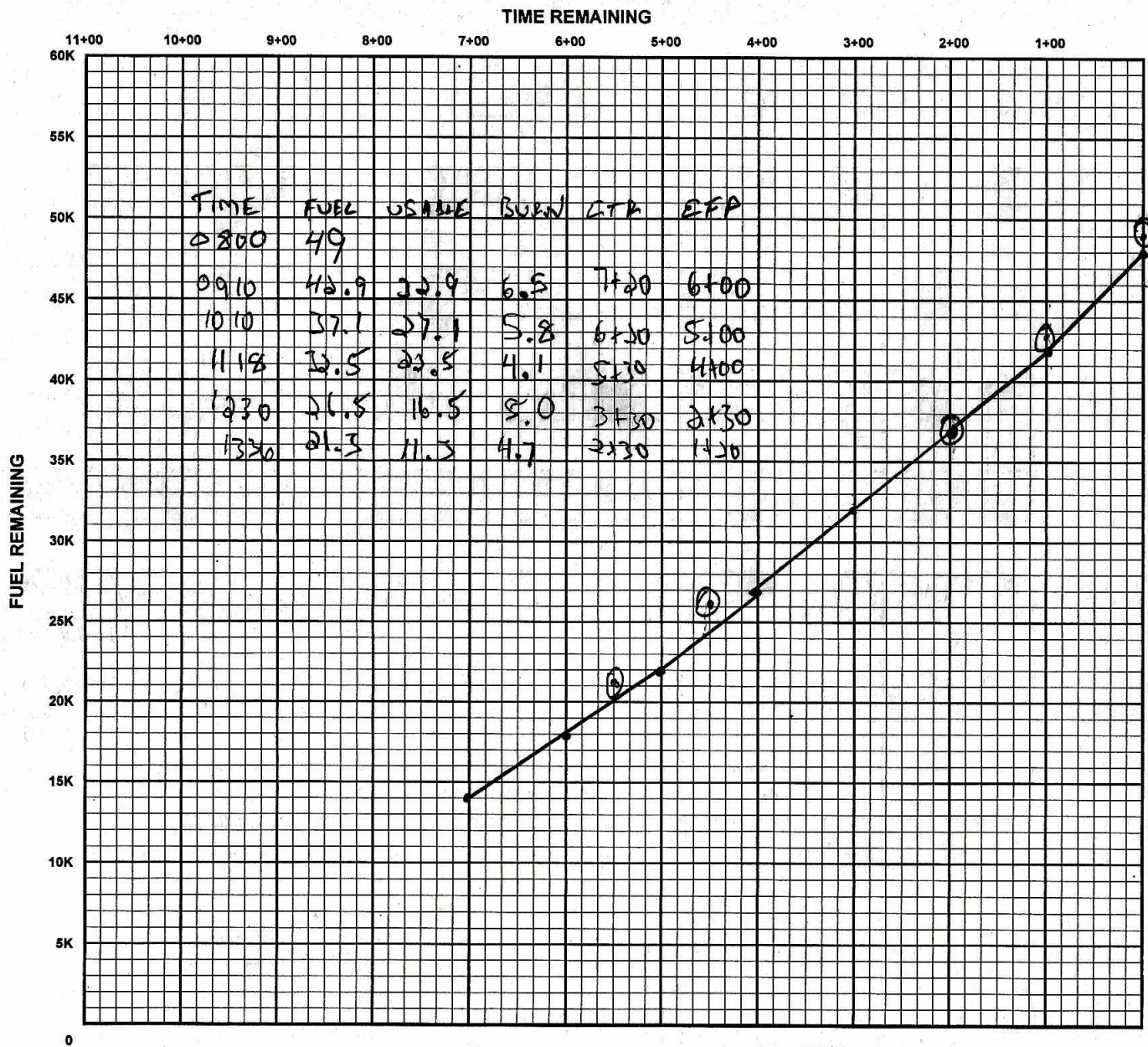
17.2

BLONDE BLONDE 1

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234² 8429 6332

RANGE CONTROL GRAPH



ENROUTE FUEL	
ENROUTE TIME	7100
ENROUTE FUEL (6K 5K 4 5K RULE)	38
RESERVE AT DESTINATION	10
REQUIRED RAMP	48
ACTUAL RAMP FUEL	49

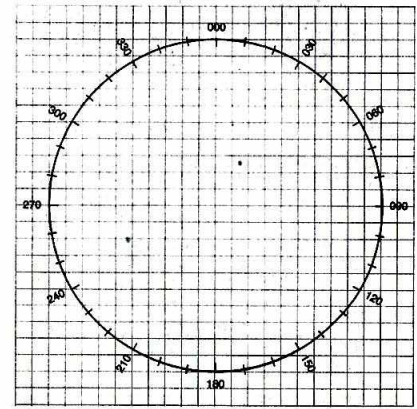
CEX - TRUE BEARING METHOD			
COMPASS TYPE	INS1	INS2	WET
MCH (READING)			
MTH (SEXTANT)			
CE			
- VAR			
DEV			

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

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		

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

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		



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

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
0806	223	6			+4	273	274