



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

AOCWF1

Flt ID: 040913H	From: KMCF	To: KMCF
Flt No: 04-043	Blk In: 2212	ATA: 2203
ETD: 1630Z	Blk Out: 1612	ATD: 1625
ETE: 6	Blk Time: 6:00 (6.0)	Flt Time: 5:38 (5.6)
Sponsor Org: NESDIS	Program: Ocean Winds	Purpose: Iwan Yucatan Channel

AOC Personnel

AC: Kennedy	Sys Eng: McMillan
CP: Salah / Chou	Data Sys: Reek
Nav: Callaghan	Radar:
FE: Bast / <del>Hilde</del>	GPS/BT:
FD: Parrish	Cld Phys:
Avionics: Rogers	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
Chang, P.	PI	
Brock, S.	Co-Pi	
Kerr, B.	SFMA	
Contreras, C.	↓	
Leighton, P.	Radar	NAD
Evans, Don	Secretary	DOC
Achin, Rich	Visitor	OMAO
FLOYD, WILLIAM A	VISITOR	DOC
JULATON, JAY JAY	VISITOR	DOC

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)

IP 22 21W 85 01W      2057N 84 41W 913mb 81°/163 kts 1820Z  
 21 12 84 48W      1855Z 2100N 8439W 913mb 1630/157kt  
 1355Z 8° 10N, 0      1939 2102W 8443W 912m 251°/137kt  
 090/11      70.1/23.6      31/22      31/-33      2042 2111W 8448W 913mb 27°/128kt  
 7      87/10      090/8      1014.8  
 2.5K 54      111013.6 ft  
 29/23      29.98 (1015.2)

4 penetrations  
H.D.

1 100  
2053  
84 41

20 45  
84 50  
17302

222

Flight ID: 040913H H. IVAN OCEAN WINDS

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Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T <sub>a</sub>	T <sub>d</sub>	Press. Alt	Geo. Alt	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
161645	2750.7	8230.0												
162715	2753	8224	98	100	105	74.2	28.4	11.3	749	797	1015.2	920	65	↑
165930	2545	8244	200	195	103	32	-7.1	-0.3	4564	4818	1019.8	572	-	
1718	24 26	83 01	216	<del>216</del> 129	41	-8.7	-1.2	4584	4815	1026	571			
175230	2232	8451	222	207	103	70	13.0	11.0	2399	2419	1000	756		
1758	2220	8500	170	154	92	70	14.1	11.0						IP taboulat
1809	Drop NW of eye													
181630														
1821	2055	8440									913			§
182920	2048	8438	Drop S eye											
1836	2021	8433	~	~	248	83	14.8	14.6	2622	2468	975	735	75	S of eye
1846	2100	8400	~	~	171	101	14.6	-	2599	2425	974			
190848	2033	8530	Drop											
1915	2012								18552	2100N	8439W	912MIB	§	
192530														
192607	2009	8436	Drop S of storm - hur force											
193930	2102	8443									912			§
194320	Drop 1 N eye													
1956	2154	8512	224	213	74	92	13.9	13.8	2525	2423	984	745	65.7	
2000	2138	8529	46	~	41	86	14.8	13.6	2531	2432	983	742	76.8	
2014	2109	8446					21	17			913			§
202530	2125	8443	Drop 2											
2035	2202	8443	1	80	26	108	104	12.8	-	2512	2402	985	745	
2059	2344	8437	24	34	139	50	-4.6	~	5189	5432	1017.7	527.0	67.4	
212630	2546	8355	16	23	117	34	-3.0	-5.4	5185	5460	1006.3	527	68.4	
2157	2738	8241	33	36	103	14	20.7	-1.3	1066	1103	1012.1	893	38.2	↓ to land

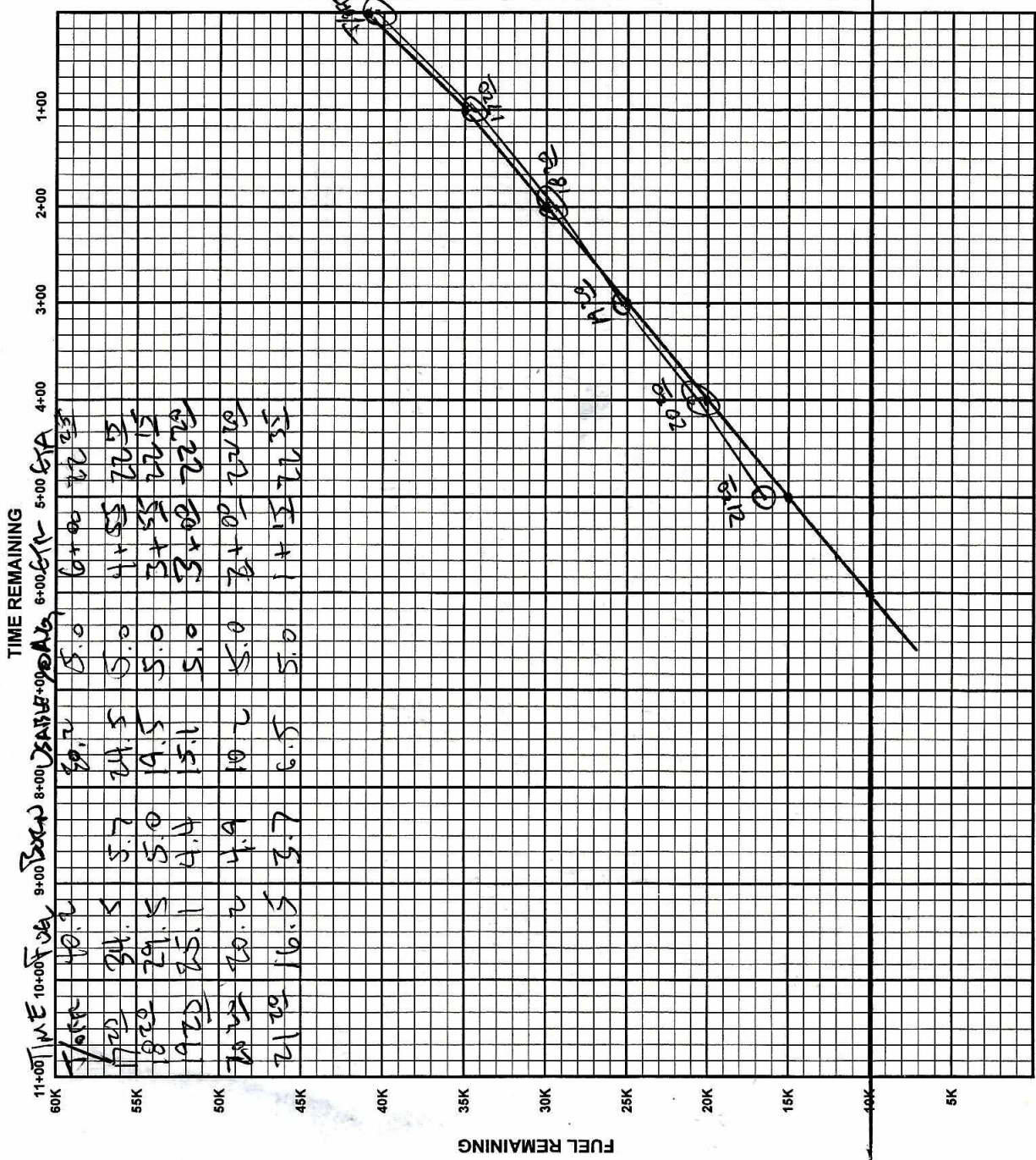
11  
10  
10

173 05

10.52

28  
-10  
22  
-18

RANGE CONTROL GRAPH



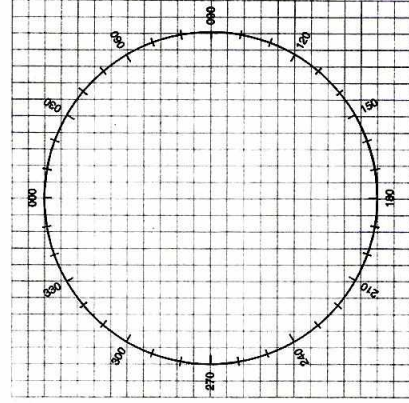
ENROUTE FUEL	
ENROUTE TIME	6:00
ENROUTE FUEL (6% 5K 4.5K RULE)	31.0
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	41.0
ACTUAL RAMP FUEL	40.2

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

POINT OF SAFE RETURN	
ETP DISTANCE (TO DEPARTURE)	
ENROUTE TIME (TO DEPARTURE)	
BURN RATE (LBS/HR)	4500
FUEL REQUIRED	5500
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	



WINDSPEED	WIND FACTOR	
	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	T/F FACTOR					
	200	250	300	350	400	450
10,000	1.0	1.0	.99	.99	.99	.99
20,000	.99	.98	.97	.97	.97	.97
30,000	.97	.96	.95	.95	.94	.94
40,000	.96	.94	.92	.92	.90	.90

TRUE AIRSPEED CROSS-CHECK							
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS	ITAS
17:01	212	15000	1.01	812	5	282	247
	212		1.01	812	0	265	266

DISTANCE REMAINING

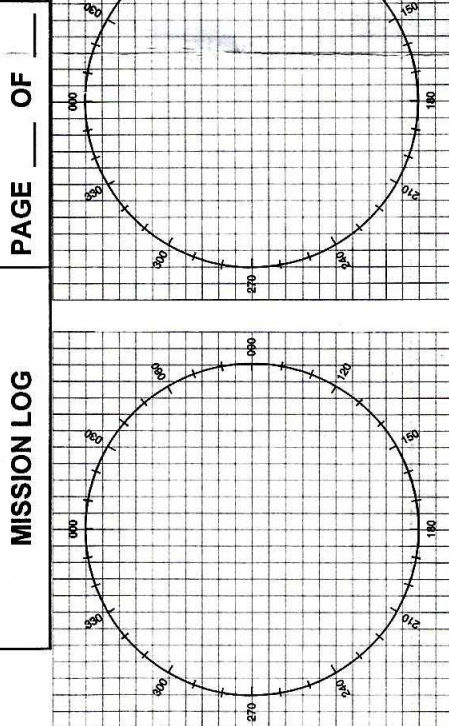
ETP = .5(TOTAL DISTANCE x OUTBOUND WIND FACTOR)



135.1

842

CLEARANCES		
FREQ	ALT	HDG
119.9	1600	1080
		KNR 41600 @ 2117



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 121.5 2182 KHZ 8364 KHZ 500 KHZ  
 MIF/CW 243.0  
 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

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR	TH	DR	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
15:30	X	26-59.9 082-29.7	26-59.5 082-29.7	-0.4	26-59.7 082-29.6	+0.2	190	4W	180	55	181	260	050	20	1500	255	KNR	171	+08	1718	15# 2 FLY
17:30	A	23-30.7 083-54.3	23-29.9 083-54.8	+0.8	23-30.4 083-54.9	+0.3	215	3W	210	100	200	250	115	40	1500	255	R	88	+18	1718	
18:30	A	21-03.9 084-03.2	21-02.4 084-04.3	-1.5	21-04.9 084-03.4	-1.7	234	2W	232	245	265	240	158	115	800	232	546	37	+9	1831	
19:30	A	20-28.2 084-37.2	20-25.9 084-37.5	+2.3	20-26.6 084-37.1	+1.1	331	7W	329	267	354	241	245	91	800	232	648	16	+4	1934	
20:30	A	22-55.8 084-51.9	22-53.9 084-51.7	+1.9	22-58.0 084-45.1	+2.7	015	3W	012	221	360	275	115	61	FLY	232	NIM	96	+21	2051	
22:03	KNR	27-51.0 082-29.6	27-46.3 082-28.4	+4.7	27-50.8 082-29.0	+1.8															FLY => ST 28 = 8
22:23	KNR																				BUL = 6.0

6

