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

ACIEWFT

Flt ID: 02I217I	From: KMCF	To: KMCF
Flt No: 03-15	Blk In: 2128	ATA: 2120 (2080 1936 1LH)
ETD: 1930Z	Blk Out: 1926Z	ATD: 1936Z
ETE: 2.0	Blk Time: 2.0	Flt Time: 1.7
Sponsor Org: NRL	Program: SAR	Purpose: TEST FLT

AOC Personnel

AC:	KENUL	Sys Eng:	BROGAN
CP:	SILAH	Data Sys:	TONG
Nav:	BRAKOB / ADLER	Radar:	SMITH
FE:	CORRY	GPS/BT:	LYNCH
FD:	FLAHERTY / SHEPHERD	Cld Phys:	
Avionics:			

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
JUNEK	PI	NRL - UMASS

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

195323 RADAR ACT IN STANDBY
157
195544 BACK ON
195722 — DWPTR 3 BALANCE
195832
200040 DWPTR 1 BALANCE

202320 DWPTR 3 OFF
202738 " ON
203115 " BAL

J. W OFF FOR FLIGHT

DEWPOINT 3 FUBAR - 3-4° HIGHER THAN 1-2

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AOC WP-2

Flt ID:	Time Off: 1936 z	Time On: 2120

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure		A3010	1017.9	A3007

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes		
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes		

Video

	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks 3010

Flight ID: 02I217I

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U.S. Dept. of Commerce/NOAA/Aircraft Operations Center Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T_a	T_d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
1936	/	/	/	/	220	04	220	04			1018.4			TAKE OFF
1944	2743	8216	227	227	122	7	12	7	1175	1216	1014.9	881	81	
1952	2726	8224	145	145	129	12	12	7	1185	1239	1016.5	878	65	POD ON
200540	2647	8217	162	160	111	12.2	14.1	8.2	561	607	1017.8	947.6	52.9	ST LEG 2
201112	2631	8212	203	202	135	11.8	14.3	9.0	553	601	1017.9	948.4	57.5	END LEG 1
201414	2633	8211	342	346	128	11.5	14.5	10.0	552	599	1017.8	948.6	52.1	ST LEG 2
201916	2649	8216	320	322	106	9.9	14.3	8.9	547	597	1018	949.2	59.3	END LEG 2
202558	2647	8220	115	116	122	10.1	14.5	5.9*	541	590	1018.3	950.0	54.4	ST LEG 3
203240	2636	8207												END LEG 3
203512	2639	8209	293	294	103	8.9	14.9	11.1	534	580	1017.7			ST LEG 4
203915	2644	8223	295	295	124	12.3	14.6	10.1	533	580	1017.9	950.8	55.2	END LEG 4
204430	2648	8218	164	163	130	13.9	12.5	7.3	891	945	1017.9	910	58.8	START LEG 5
205013	2632	8212	164	162	137	16.2	12.2	7.1	886	939	1018.1	911.3	52.7	3000 FT
														END LEG 5
205350	2634	8211	342	345	127	16.5	12.1	8.5	883	938	1018.2	911	56.8	START LEG 6
205852	2651	8218	344	347	119	14.9	12.5	7.1	881	934	1018.2	911.9	59.6	END LEG 6
2120											1017.8			LANDING

* DWPT 1 DATA

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION	MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
KMCF	SAR FLIGHT #3	LT BRAKOB	CDR KENUL	SHEPHERD	1430	17 DEC 02

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
KMCF 1	27-51.0 / 82-29.7																	
MURDO 2	27-19.1 / 82-19.8																	
0 3	27-00N / 82-22W																	
1 4	26-48.3 / 82-18.2																	
2 5	26-32.5 / 82-13.3																	
X 6	26-24N / 82-07.4W																	
3 7	26-33.0 / 82-11.0																	
4 8	26-48.9 / 82-18.9																	
BAGS 9	27-08.1 / 82-50.5																	

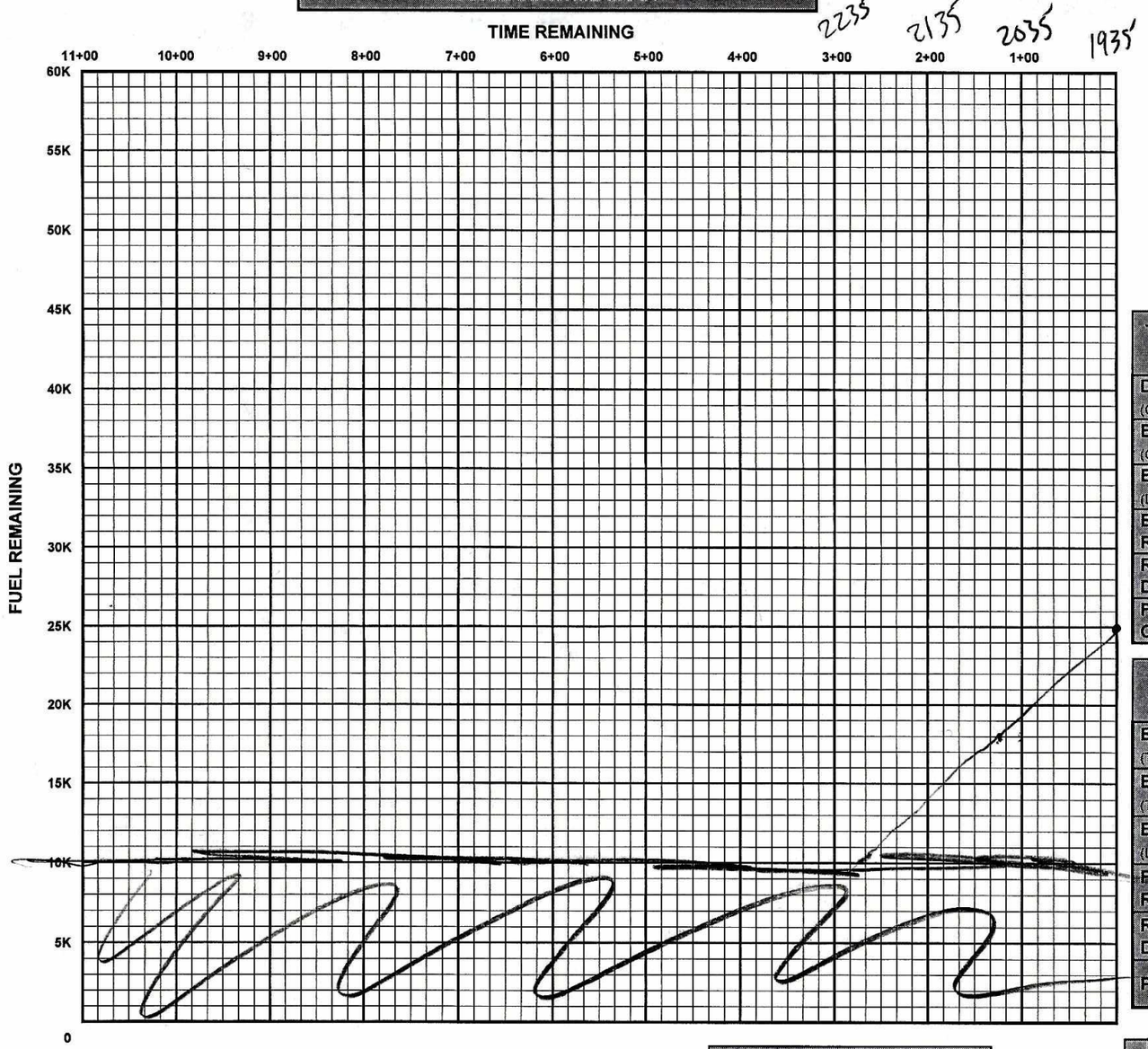
INS PERFORMANCE	INS 1	INS 2
BEGIN ALIGN TIME	1838	1838
ALIGN STATUS (0-5)	5	4
END NAV TIME	2121	2121
START NAV TIME	1915	1915
DELTA T	2+06	2+06

TERMINAL ERRORS	INS 1	INS 2
DELTA LAT	+1.5	+.1
DELTA LON	-.2	0
RGS	1	0
RADIAL ERROR	2	0.

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	
ENROUTE FUEL (6K, 5K,4.5K RULE)	
RESERVE AT DESTINATION	
REQUIRED RAMP	
ACTUAL RAMP FUEL	

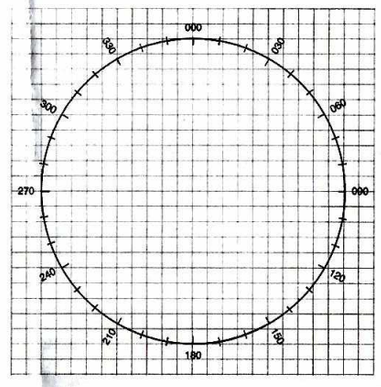
TACTICAL (OFFSTA TO DESTINATION)	4 ENG	3 ENG
DISTANCE (OFFSTA TO DEST)		
ENROUTE TIME (OFFSTA TO DEST)		
BURN RATE (LBS/HR)	4500	5500
ENROUTE FUEL REQUIRED		
RESERVE AT DESTINATION		
FUEL AT OFFSTA		

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	INS1	INS2	WET
COMPASS TYPE			
MCH (READING)			
- MTH (SEXTANT)			
CE			
- VAR			
DEV			

CEX - ERB METHOD	INS1	INS2	WET
COMPASS TYPE			
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	



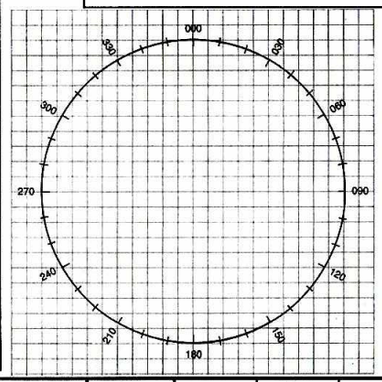
"F" FACTOR	PRESS ALT	200	250	300	350
	10,000	1.0	1.0	.99	.99
	20,000	.99	.98	.97	.97
	30,000	.97	.96	.95	.94
	40,000	.96	.94	.92	.90

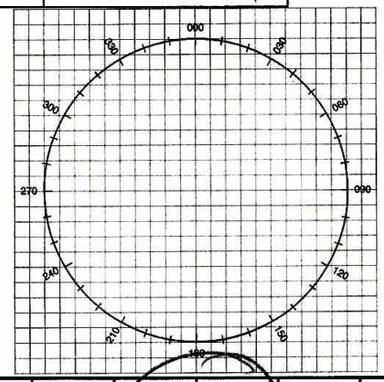
TRUE AIRSPEED CROSS-CHECK							
TIME	IAS	PRESS ALT	"F" FACTOR	EAS	OAT	TAS	ITAS
1945	220	4K			+18	233	234

BILL RAW

CLEARANCES			
FREQ	ALT	HDG	OTHER
	4K	150	TRWY4 T/O RWY4 → MACDILL

MISSION LOG PAGE 1 OF 1





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 _____, 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 13 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
1922	ENG																				
1926	BLK																				
1926	TAXI																				
1936	T/O																				
1938	XV									2L	76	212	110	14	2K	217					
1941		27-53.6 82-16.2	27-53.6 82-16.2	0 0	27-53.5 82-16.2	+.1 0				0	147	233	155	14	4K	239					085/13 KNOT
2015			RUN #1																		
2046		26-40.9 82-15.7	26-39.9 82-15.7	+1.0 0	26-40.7 82-15.7	+.2 0				1R	164	179	150	24	3K	198					
2120	LAND	27-51.5 82-30.5	27-50.0 82-30.7	+1.5 -.2	27-51.4 82-30.5	+.1 0															