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

AOCWF1

Flt ID: 021219I	From: KMCF	To: KMCF
Flt No: 03 —	Blk In: 2030	ATA: 2024
ETD: 1930	Blk Out: 1917	ATD: 1925
ETE: 1+00	Blk Time: 1.2	Flt Time: 1.0
Sponsor Org: AOC	Program:	Purpose: INST. CHECK FLT

AOC Personnel

AC: KENULL, P	Sys Eng: LYNCH, T
CP: HALVERSON, H	Data Sys: TONG, R
Nav: BRAKOB, D / ADLER, J	Radar:
FE: FLOYD, D	GPS/BT:
FD: SHEPHERD, T	Cld Phys:
Avionics: SAN SOUCI, D	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation

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

RADAR REC ON 1932

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

AOCWF2

Flt ID:	Time Off:	Time On:
021219I	1925	2024

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	1016.6	30.04	1015.7	30.06

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	2	
Radar Tapes	1	
Cloud Physics Tapes	0	
Video Tapes	0	
AXBT		
AXCP		
AXCTD		
Dropsondes		

Video

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

Remarks

Flight ID: 021219I

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
193035	2740	8246	267	264	194	13.5	16.1	7.2	1178	1245	1016.7	879.6	82.1	4000 PA
194000	2734	8324	241	238	194	18.0	15.5	9.4	1204	1276	1016.3	876.4	83.2	4000' SEV ELE
200200	2734	8320	074	079	191	19.7	15.8	6.8	1198	1259	1016.1	877.0	85.3	RTB EVERYTHING GREAT.
201100	2743	8242	082	086	151	11.9	20.3	12.3	479	514	1015.2	957.2	52.3	1600 PA

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION	MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
KMCF	PRE SALLJEX FLT	LT BRAKOB	CDR KENUL	TOM SHEPHERD	1400	19DEC 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 82-29.6	2		3W			245											
PIE 240150	2	27-26.0 83-29.0	1		3W			065											
KMCF	3	27-51.0 82-29.6																	

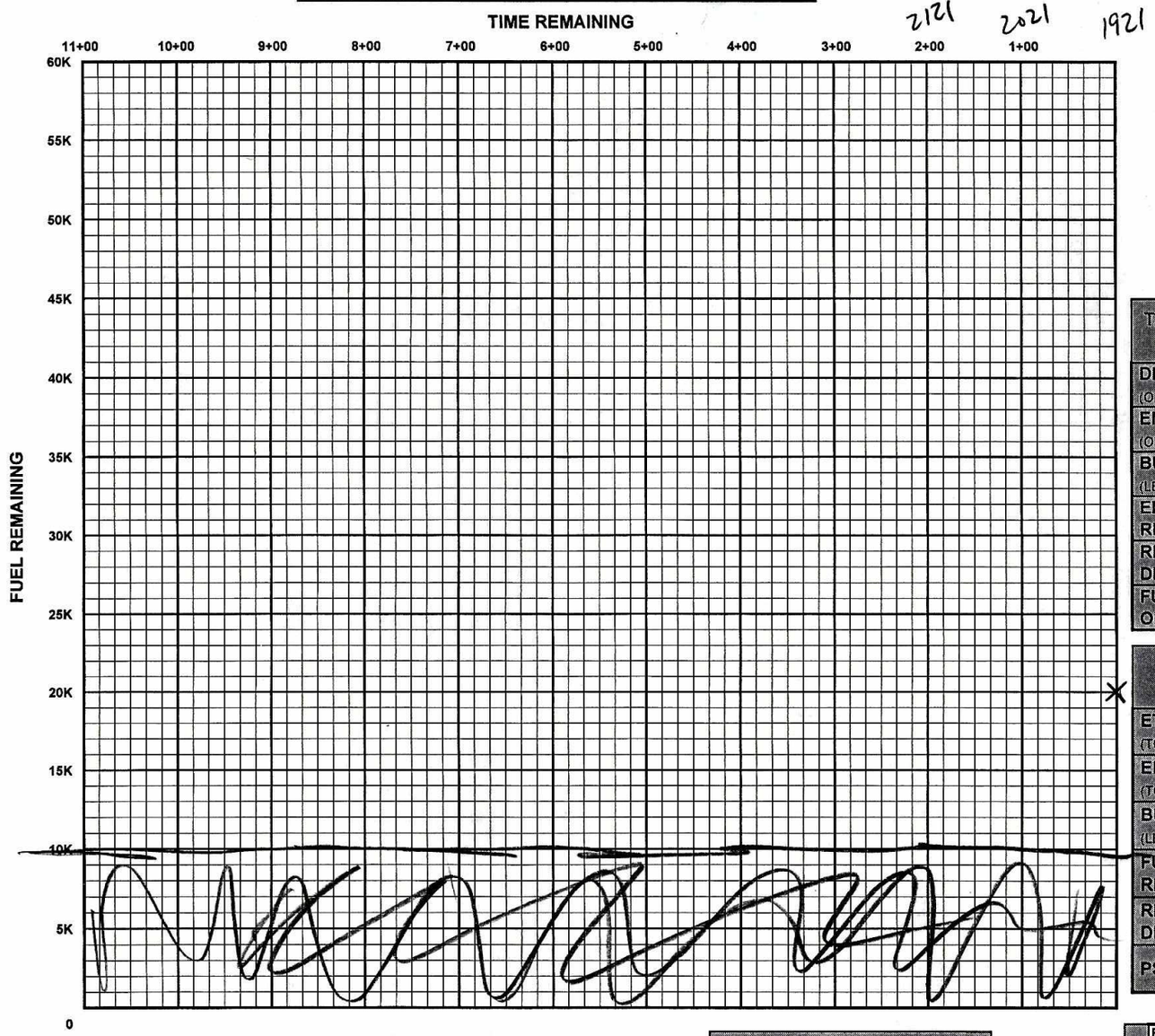
INS PERFORMANCE	INS 1	INS 2
BEGIN ALIGN TIME	1802	1802
ALIGN STATUS (0-5)	0	0
END NAV TIME	2025	2025
START NAV TIME	1854	1854
DELTA T	1+31	1+31

TERMINAL ERRORS	INS 1	INS 2
DELTA LAT	-.2	+.4
DELTA LON	+.3	-.3
RGS	0	1
RADIAL ERROR	0	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)

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

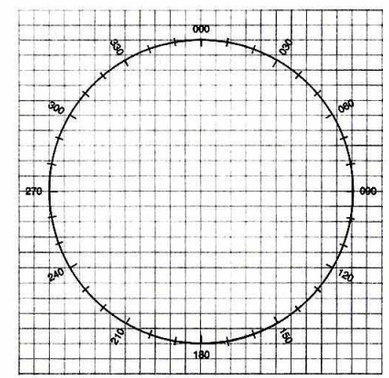
TACTICAL (OFFSTA TO DESTINATION)	4 ENG	3 ENG
DISTANCE (OFFSTA TO DEST)		
ENROUTE TIME (OFFSTA TO DEST)		
BURN RATE (LBS/HR)	4500	5500
ENROUTE FUEL REQUIRED		
RESERVE AT DESTINATION		
FUEL AT OFFSTA		

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			
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	



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

"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
1933	210	4.1K			+22	226	225

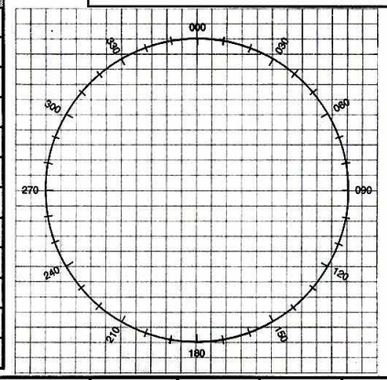
"W" +27 +14 3004

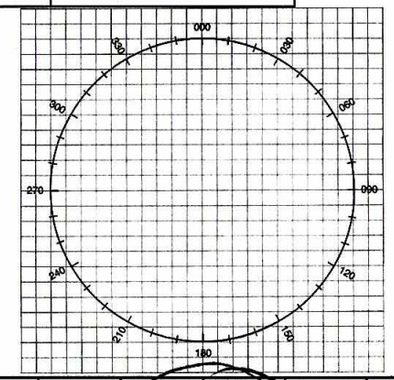
NOAA 43

CLEARANCES			
FREQ	ALT	HDG	OTHER
			T/O RWY 22 4674

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 43, NOAA 43, 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 9 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
1908 1716	ENG BLK																				
1916 1924	TAXI T/O																				
1932	XV									2L	256	216	224	19	4.1K	227					
1933	△	27-38.6 83-00.5	27-38.7 83-00.5	-.1 0	27-38.7 83-00.6	-.1 -.1				5L	266	210	213	23	4K	226					230/25
2005	6 △	27-37.7 83-05.4	27-37.8 83-05.1	-.1 +.3	27-37.3 83-05.4	+.4 0				4L	071	260	195	23	4K	241					
2024	LMNS	27-50.7 82-31.5	27-50.9 82-31.2	-.2 +.3	27-50.3 82-31.8	+.4 -.3															