



NOAA P-3 N43RF CBLAST 2004 FLIGHT #12

Flight ID: 1040915

Local Met. Data: Not copied at takeoff

Take off: 2257Z Land: 0707Z

The RA-232 was substituted for the RA-159 during take off and landing due to spiking (T.O. 225411-230134; Land 070532-070900).

The RA-159 had spikes that were removed and patched (042500-042505; 042803-042806).

The Johnson-Williams liquid water sensor was operative for the entire flight.

The differential attack pressure (APF) had spikes that were removed and patched (232817-233006). The differential slip pressure (BPF) had spikes that were removed and patched (2331-39-233356). The dynamic attack pressure (DAP) had spikes that were removed and patched (232820-233026). The dynamic slip pressure (DBP) had spikes that were removed and patched (233231-233351).

There were times during heavy precipitation events (e.g. eye wall penetrations) when the dew point exceeded ambient temperature yielding a RH of greater than 100%. This is probably due to a wet bulb effect on the total temperature probe and/or the dew pointer over heating while trying to remove excess moisture. In these instances, no corrections were attempted.

The aircraft INE positions were re-navigated with respect to GPS.

SPECIAL NOTE: Locations 80, 81, and 82 of record 5 in the standard data contain vertical ground speed, vertical air speed, and vertical wind speed computed using Dr. Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Take off	Land
Aircraft Static Pressure	1011.1 mb	1011.3 mb
Corrected Tower Pressure	1011.9 mb	1012.9 mb

Flight Director:

Tom Shepherd 813-828-3310 x3053

U.S. Dept. of Cor	nmerce / NMAO / NOAA / Aircr	off Operations Contain
Fit ID: 040915I	From:	To:
Fit. No: 04-066	Bik In: 07/6 z	Time On: 0707z
ETD: 2300 Z	Blk Out: 2243 z	Time Off: 2.2572
ETE: 9 + 00	Blk Time: 8 + 33 8, 5 Hrs	Flt Time: 8 + 10 8.2 Hrs
Sponsoring Org: WOAA / WHC	Program: Hurr, 2004	Purpose: H. IVAN
	AOC Flight Crew	
Aircraft Commander: TEBEEST, N	Data System:	VNCH. T
Co-Pilot: STRONG, TIN	The second second second second	SM, TH, J
Navigator: SIEGEL, PIB		
Flight Eng:	A A:	OPEY, B
Flight Director: SHEPHELD, 71/	+4 AA:	The second of the second secon
Avionics: Sans Souci, I	Crew Chief:	and the same of th
	Participating Scientists / Visit	ors
	The second secon	17
Name (Last, First)	Activity on Aircraft	Affiliation
Name (Last, First) GAMACHE, J	Activity on Aircraft	NO AA /HRD
GAMACHE, J		
CAMACHE, J/ Dodge, P/		
Dodge, P BLACK, M	PI (
CAMACHE, J/ Dodge, P BLACK, M WALSH, E	PI (SRA	NOAA/HRD
CAMMACHE, J/ Dodge, P BLACK, M WALSH, E Stafford, F. Col.	PT (SRA Obs	
GAMACHE, J/ Dodge, P BLACK, M WALSH, E SHAFFORD, F. Col. ROBERTS, NED	PT (SRA Obs	TAMPA CH 10 - CBC
GAMACHE, J/ Dodge, P BLACK, M WALSH, E SHAFFORD, F. Col. ROBERTS, NED	PT (SRA Obs	TAMPA CH 10 - CBC
GAMACHE, J/ Dodge, P BLACK, M WALSH, E SHAFFORD, F. Col. ROBERTS, NED HARRIGAN, ROBERT	PI (SRA Obs MEDIA	TAMPA CH 10 - CBC
GAMACHE, J/ Dodge, P BLACK, M WALSH, E SHAFFORD, F. Col. ROBERTS, NED HARRIGAN, ROBERT	PT SRA OBS MEDIA I To Times, Fix Times) Record	MOAA/HRD TAMPA CH 10 - CBC SARASOFO - ABC
GAMACHE, J Dodge, P BLACK, M WALSH, E SHAFFORD, F. Col. ROBERTS, NED HARRIGAN, ROBERT HARRIGAN, ROBERT	PI SRA Obs MEDIA I To Times, Fix Times) Recci	MOAA MRD TAMPA CH 10 - CBC SARASOFA - ABC OTIMES FIX# FIX TIME 10014- 102 2-0130
GAMACHE, J Dodge, P BLACK, M WALSH, E SHAFFORD, F. Col. ROBERTS, NED HARRIGAN, ROBERT HARRIGAN, ROBERT REMARKS (Storm Name, Mission ID, Reco	SRA OBS MEDIA O Times, Fix Times) Record O O	TAMPA CHIO-CBC SARASOFA - ABC OTimes Fix# Fix Time 10014-
GAMACHE, J Dodge, P BLACK, M WALSH, E SHAFFORD, F. Col. ROBERTS, NED HARRIGAN, Robert Remarks (Storm Name, Mission ID, Reco	PI SRA OBS MEDIA I So Times, Fix Times) Record O O	NOAA/HRD TAMPA CH 10 - CBC SARASONO - ABC OTIMES FIX# FIXTIME 10014- 102 2-0130 305 3-0238-
GAMACHE, J Dodge, P BLACK, M WALSH, E SHAFFORD, F. Col. ROBERTS, NED HARRIGAN, ROBERT HARRIGAN, ROBERT REMARKS (Storm Name, Mission ID, Reco	SRA OBS MEDIA I So Times, Fix Times) Record O O O O	MOAA MRD TAMPA CH 10 - CBC SARASONO - ABC OTIMES FIX# FIX TIME 1032 1-0014- 102 2-0130 305 3-0238-

US	Dept. of Co	mmerce /	/ NMAO / NOAA / Aii	rcraft Operations Cer	nter
Flight ID: 640	0915I	Time Off	f: 2257	Time On: 07	07
	A/C - Tak	eoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	101		29.88	1011,3	29,91
	Number		Data Di	sposition / Date / Quality	
Flight Level Tapes	2				
Radar Tapes	3	,			
Cloud Physics Tapes / CI	Os		*	on the distribution of the second section of the sec	
Video Tapes	4				
Dropsondes	31	Good:	Bad:		
200000					
AXBT	Ø				
AXCP					
AXCTD					

Remarks:

Total Sonder 8/30/04 -> 9/15/04 275 215% bas

Hurricane / CBLAST '04 Flight Performance Log N43RF

Mission LUAM - SFMR+ Fix FIT D 40915 I

SED Crew Lynch, Sans Sonci, Smith

Pre-Flight Z1:00 Take-Off ZZ:56

Landing

07:06

	rie-riight 21.00 la	Ke-OII	00.00	Landing_	01.00
	System	Pre-Flight	Mark Market Inselle	M	PostuFlight
	GPS FM:	TORO	(S)	9	LAT LON GS RE
Ŋ	INE #1 Time On: 210 Aligned to :			The Res	-41 H34 4 5
A V	INE #2 Time On: 2) 10 Aligned to :	088	1 1 1	~^.	-9.7 45.9 2 11
"	Diff GPS	100)			111011211
	MARS Data Start Stop	Ready?	HRD?		#DATs? 5 Given To: D
_	MARS 23:08 00:37		Y/N	- AND	" Divid 2 Divert 10: 2
R A	MARS Data // Tape Status 9 (2) 2/5 10 1/4 T		LFRee TARec	EOFs	
D	MARS (U8) (18) 01:47/	10605			
A R	MARS LU9 Gean				
K	RADAR RIT SN Tail 2.02 102LF 102		Mod Switches	ON	Mod Switches OFF)
	Nose	820		300	Power OF
	FSSP Ref VDC: Covers OFF	NI		3-3	Covers ON
P	Cloud Mono Covers OFF				Covers ON-
M	CIP Covers OFF				Covers ON-
S		Ready?	#DATS Errors D		Given To:
-	DAT Clean?	V		Y / N	
-	Cal High Cal Low	~		152° C	Cal High Cal Low
T E	Temp #1 30,5 -30-4				30.6 -30.2
М	Temp #2	TL			Power OFF
Р	Temp #3	IN	1 7 1		Power QEE
_	Dewpoint (#3 #3 (TDL)	The			Power OFF
P R	Attack / Slip Angle (AD (AD (BD) DEP		3		Power OF5
E	Differential OF FOR PORTON	12			Power OFF
S	Absolute PS S2 CEPS	TL	9 112		Power OFF
F	Apn-159 SN: 66-024	alber erre	IN REASON TO THE THI	a	Power OFF
L	Apn-232 SN: 1761	TL		The second secon	
T L					Power OFF
v.	Liquid Water	12	28V WOW: ON?	1087	Power OFF
L	Radiometer COD SST	JS	28V WOW: ON?	-	Power OFF
	RAMS Data Stop	Ready?	Errors 8;	Errors 9:	#DATs? 2 Given To: 84
	CPU: A B) 22:41 7:17	TL	7		Power OFF
	RAMS Data / Tape Status		Slow Rec	Fast Rec	Disk Records: 3102
R	RAMS (198)	74			where the second
A	RAMS (U9)	TL			
M S	Flight Director Laptop	باح			Power OFF
	Network	NE		3	
	ASDL Mission #: 42 09 AName: IUAN		Freq: 30 Bloc		Power OFF
-	C.L. Printer Stop Stop PRATE: \0 22/34 07/7	Ready?	Paper Bin St		Given To: Shep
1222		40	0% 25% 50%	75% 100%	Power OF
	Exterior Walk Around Plugs Covers SATCOM W/S margat GlobalStar	25			Plugs Covers
					Power OFD
М	CONTRACTOR OF THE CONTRACTOR O	HN			# Launched :
- 2	AXBT External # Loaded : AVAPS # On Board : 55	- FN	28V WOW		# Launched :
A !		72			# Dropped: 3/
ŀ	Video Camaras Stant Stop VHS SVHS ZZ: 40 07/4	Ready?	Cameras (NO)		# Tapes ? Given To:
ŀ	FCU B-C-P-	TL			Lens Cap ?:
-	SFMR (B) (O)	TL			UPS OFF)
ŀ	HRD Work Station	<u> </u>			
U	NASA SRA		-		Accelerometers
S	ARL BAT Probe, SST & IRGA	NH			#1 (2 G): 820 S
	UW PDA	NA			#2 (2.5 G) : 46 8 7
	Scripps MASS, Laser Alt, IR Cam & Sono	Nu			#3 (3 G): 5967
	RSMAS Licor	TL			#4 (3.5 G): 289 マ

220

88.2

Please Note any Discrepencies

Item Z	ulu ime	Problem Description	Initials	Status
	Se :	Restored Lu 19 from CPU-4	K	
4	1,	All pressure lines need to be purged	Z	
5 23	·40	Survey Ston MACHO Q SPINE	TL	
		5.7.76.60.65		
	100 mg			
7V :	٠, ، ر			**************************************
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9.5	1			
	1			
			- 5	s_ /i
	4)	

D	ATE 9/15/64 SCH	HEDULED RX TIME 067	AIRCRAFT NUMBER	FLIGHT DIRECTOR
wx	MISSION IDENTIFIER	NOAA3 AZ		OB NUMBER 20
V	ORTEX DATA MESSAC	GE AL	OTA IVAN	28
А	16/0538	Z DATE and TIME of	FIX	
В	29 DEG SEMININ S	LATITUDE of FIX		
	87 DEG 53MIN (1) E	LONGITUDE of FIX		
C	700 MB 2604 M	MINIMUM HEIGHT	of STANDARD LEVEL	
D	NA KT	ESTIMATE of MAXIN	MUM SURFACE WIND OBSE	RVED
E	NA DEG ' NM	BEARING and RANG	GE FROM CENTER of MAXIN	NUM SURFACE WIND
F	220 DEG 115 KT	MAXIMUM FLIGHT	LEVEL WIND NEAR CENTER	
G	134 DEG 44 NM		E FROM CENTER OF MAXI	· · · · · · · · · · · · · · · · · · ·
Н	939E 943 MB	MINIMUM SEA LEVE OLATED FROM FLIG	L PRESSURE COMPUTED F HT LEVEL. IF EXTRAPOLAT	ROM DROPSONDE OR EXTRAP- ED. CLARIFY IN REMARKS
1,	19 C/3060 M		EVEL TEMP / PRESSURE AL	
J.	19 C/3058 M	MAXIMUM FLIGHT L	EVEL TEMP / PRESSURE AL	TITUDE INSIDE EYE
K	14 C/NAC	DEWPOINT TEMP / :	SEA SURFACE TEMP INSIDI	EYE
L	OPEN S	EYE CHARACTER: C	losed wall, poorly defined,	open SW, etc.
м	C(L)	E - Elliptical. Transmit or	ientation of the major axis in te	shape as: C - Circular; CO - Concentric; ns of degrees, i.e., 01-010 to 190; 17 -
IVI	290	EU9/15/5=Elliptical eye, r	meter in nautical miles. <i>Example</i> najor axis 090-270, length of ma ic eye, diameter inner eye 8 NM	es: C8= Circular eye 8 miles in diameter, ijor axis 15 NM, length of minor axis , outer eye 14 NM.
	.)	FIX DETERMINED BY	/ FIX LEVEL. FIX DETERMIN	ED BY: 1-Penetration: 2-Radar:
N	12345/7	indicate both surface	and flight level centers Of	ndicate surface center if visible; NLY when same): 0-Surface;
		1-1500 ft; 9-925mb; 8 NA-Other	-850mb; 7-700mb; 5-500m	b; 4-400mb; 3-300mb; 2-200mb;
0	. // / NM		URACY / METEOROLOGIÇA	AL ACCURACY
Р	REMARKS	9		
	. MAX FL WIND_	1/2 KT SE	QUAD 0527 Z	
	SLA	From Drops	QUAD <u>0527</u> z'	
			B	
	×			

	DA	9/15/04	SCHE	DULED RX TIME	AIRCRAFT NUMBER 1/43	FLIGHT C	DIRECTOR SHEPHERD
		MISSION IDENTIFIER	505	VOAA3 4200	9A IVAN		OB NUMBER 29
-		ORTEX DATA MES					
	A	16/04)7Z	DATE and TIME of I	FIX		
-	В	29 DEG 34 MIN	N S	LATITUDE of FIX			7
		87 DEG 58MIN	W E	LONGITUDE of FIX			
	C	700 MB 2583	M	MINIMUM HEIGHT	of STANDARD LEVEL		
	D	WA	KT	ESTIMATE of MAXIM	MUM SURFACE WIND OBS	ERVED	
	Ε	NA DEG	NM	BEARING and RANG	GE FROM CENTER of MAX	MUM SURI	FACE WIND
	F	157 DEG 116	KT	MAXIMUM FLIGHT	LEVEL WIND NEAR CENTE	R	
	G	65 DEG 43	NM	BEARING and RANG	SE FROM CENTER OF MAX	IMUM FLIG	GHT LEVEL WIND
	Н	936€ 939	МВ	MINIMUM SEA LEVE	EL PRESSURE COMPUTED HT LEVEL. IF EXTRAPOLA	FROM DRO	PSONDE OR EXTRAP-
	1	19 c 13057	M		EVEL TEMP / PRESSURE A		
	J.	20 C / 306/	М		EVEL TEMP / PRESSURE A		A STREET, STRE
	K	14 C/NA	Ċ		SEA SURFACE TEMP INSI		
		Poorly defin	vel		losed wall, poorly defined		etc.
		2		EYE SHAPE/ORIENTA	TION/DIAMETER: Code ey	e shape as: C	- Circular; CO - Concentric:
٨	1	C50	7	E - Elliptical. Transmit or 170 to 350. Transmit dia E09/15/5=Elliptical eye, n	ientation of the major axis in t meter in nautical miles. <i>Examp</i> najor axis 090-270, length of n ic eye, diameter inner eye 8 Ni	ens of degre ples: C8= Circ naior axis 15 I	es, i.e., 01-010 to 190; 17 - ular eye 8 miles in diameter.
		2	/	FIX DETERMINED BY	FIX LEVEL. FIX DETERMI	NED BY: 1-	Penetration; 2-Radar;
V		12345/	7	indicate both surface	-Temperature. FIX LEVEL and flight level centers C	NLY when	same): 0-Surface:
		120101	1	1-1500 ft; 9-925mb; 8- NA-Other	-850mb; 7-700mb; 5-500r	nb;4-400m	nb; 3-300mb; 2-200mb;
0	8	. ///		50-00 co. 5000 mile	URACY / METEOROLOGIC	AL ACCUR	ACY
Р		REMARKS		4			
		MAX FI WI	ND /	122 KT SE	OHAD \$\D\(\lambda\) >2		
		SIP		POUR TIEMPSAN	QUAD 00/0 z	w	
			/- N	was proposed			
					,		

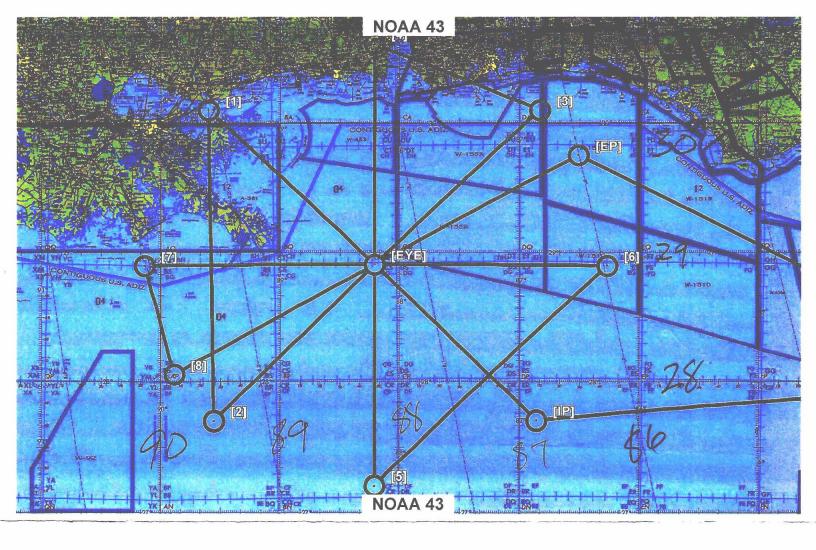
	TE /				
DA	9/15/04 SC	HEDULED RX TIME 10 3	AIRCRAFT NUMBER N43	FLIGHT	DIRECTOR
wx	MISSION IDENTIFIER		1045		DEPHERD
		NOAA3 4	209A		OB NUMBER
V	DRTEX DATA MESSA	GE			
Α	16/0238	Z DATE and TIME of	FIX	9	
В	29 DEG 15 MIND	S LATITUDE of FIX			^
	88 DEG OSMIN W	E LONGITUDE of FIX			
C	700 MB Z548M	MINIMUM HEIGHT	of STANDARD LEVEL	8	
D	NAK	ESTIMATE of MAXII	MUM SURFACE WIND OBS	ERVED	
Е	NADEG NI	M BEARING and RANG	GE FROM CENTER of MAX	MUM SUR	FACE WIND
F	88 DEG 99 KT	MAXIMUM FLIGHT	LEVEL WIND NEAR CENTE	R	
G	003 DEG 20 NA	BEARING and RANG	SE FROM CENTER OF MAX	IMUM FLIC	GHT LEVEL WIND
Н	933E 936 M	MINIMUM SEA LEVI	EL PRESSURE COMPUTED HT LEVEL. IF EXTRAPOLA	FROM DRO	PSONDE OR EXTRAP-
1.	14 C / 3065M	B and the second second	EVEL TEMP / PRESSURE A		
J.	21 C /3066M		LEVEL TEMP / PRESSURE A		Section 1997
K	13 C/ NAC	DEWPOINT TEMP /	SEA SURFACE TEMP INSI	DE EYE	
L	DPEN SW		losed wall, poorly defined		
м	C40	E - Elliptical. Transmit of 170 to 350. Transmit dia E09/15/5=Elliptical eye, i	TION/DIAMETER: Code ey rientation of the major axis in the major axis in the major axis in the major axis of the major axis 090-270, length of notice eye, diameter inner eye 8 Nice eye, diameter eye 9 Nice eye eye 9 Nice eye, diameter eye 9 Nice eye	ens of degre bles: C8= Circ naior axis 15	es, i.e., 01-010 to 190; 17 - rular eye 8 miles in diameter. NM. length of minor axis
N	12345/7	FIX DETERMINED BY 3-Wind; 4-Pressure; 5 indicate both surface	/ FIX LEVEL. FIX DETERMI -Temperature. FIX LEVEL e and flight level centers C -850mb; 7-700mb; 5-500r	NED BY: 1- (Indicate so ONLY when	Penetration; 2-Radar; urface center if visible; same): 0-Surface:
	// NM	STATES AND THE STATE OF THE STA	URACY / METEOROLOGIC	AL ACCUR	ACY
	REMARKS				
	MAX FL WIND	122 KT SE	QUAD 000 Z		
	SLP 1	FROM DROPSOM	de	a s	
		,	·		

#2

	DATE / SC	CHEDULED RX TIME	AIRCRAFT NUMBER	FLIGHT DIRECTOR	_
	9/15/04		N43	SHOPHER	D
W.	X MISSION IDENTIFIER	NOAA3 4209A	1.10.1	OB NUMBER	
	ORTEX DATA MESSA		a IVAN	//	
1	1610130	Z DATE and TIME of	FIX		
	29 DEGAZMINN			. ,	,
В	8 8 DEG 6 6 MIN @			*	
C			of STANDARD LEVEL	· · · · · · · · · · · · · · · · · · ·	
D			MUM SURFACE WIND OBS	ERVED	
E	NA DEG N		GE FROM CENTER of MAXI	- reaction in the second secon	
F	294 DEG 100 KT	MAXIMUM FLIGHT	LEVEL WIND NEAR CENTE	R	
G		M BEARING and RANG	SE FROM CENTER OF MAX	IMUM FLIGHT LEVEL WIN	D .
Н	933 M	MINIMUM SEA LEVE	L PRESSURE COMPUTED	FROM DROPSONDE OR EX	XTRAP-
T	22 C / 2997 M		<u>iht Level, if extrapola</u> Level temp / pressure a	5.00 (Feb. 1991) - 10.00 (<u>5. </u>
J.	22 C/3014 M	THE SALVION I EIGHT E	LEVEL TEMP / PRESSURE A		
K	13 C / NAC		SEA SURFACE TEMP INSID		
L	DPEN SU		losed wall, poorly defined		
	5,000	EYE SHAPE/ORIENTA	TION/DIAMETER: Code eye	shape as: C - Circular; CO - Co	oncentric;
M	C40	E - Elliptical. Transmit or	rientation of the major axis in t meter in nautical miles. <i>Examp</i>	ens of degrees i.e. 01-010 to 1	90-17-
	CI^{-}	E09/15/5=Elliptical eye, i	major axis 090-270, length of m ric eye, diameter inner eye 8 NA	ajor axis 15 NM, length of min	or axis
	v.	FIX DETERMINED BY	/ FIX LEVEL. FIX DETERMI	NED BY: 1-Penetration: 2-	Radar:
N	12345/7	3-Wind; 4-Pressure; 5	-Temperature. FIX LEVEL e and flight level centers C	Indicate surface center if	visible
	12013/1	1-1500 ft; 9-925mb; 8 NA-Other	-850mb; 7-700mb; 5-500r	nb; 4-400mb; 3-300mb; 2-	200mb;
0) / / NM		URACY / METEOROLOGIÇ	AL ACCURACY	
Р	REMARKS			, in reconney	-
		/22 KT SE	01110 0010 =		
	. MAATE WIND	TEE NI JU	QUAD O O O	8	
			il.		
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						<i>W</i> /
D	ATE: GILL	SCHE	DULED RX TIME	AIRCRAFT NUMBER	FLIGHT C	IRECTOR
	9/15/04		007	NY3		SHEPHERD
lwx	MISSION IDENTIFIER	N	DAA3 4209	A IVAN		OB NUMBER 5
V	ORTEX DATA MESS			11 2 1/110		
А	1610014) Z	DATE and TIME of	FIX		,
В	28 DEG S3MIN	S) s	LATITUDE of FIX			
	88 DEG 11 MIN	Ø E	LONGITUDE of FIX			
C	700 MB 2520	M	MINIMUM HEIGHT	of STANDARD LEVEL		0
D	NA	KT	ESTIMATE of MAXII	MUM SURFACE WIND OF	BSERVED	
E	MADEG	NM	BEARING and RANG	GE FROM CENTER of MA	XIMUM SURI	ACE WIND
F	192 DEG 122	KT	MAXIMUM FLIGHT	LEVEL WIND NEAR CEN	TER	
G	110 DEG 21	NM	BEARING and RANG	SE FROM CENTER OF MA	AXIMUM FLIC	HT LEVEL WIND
Н	931	МВ		EL PRESSURE COMPUTE GHT LEVEL. IF EXTRAPOI		
	20 C 13051	М		EVEL TEMP / PRESSURE		
J.	22 (13052	М	MAXIMUM FLIGHT I	LEVEL TEMP / PRESSURE	ALTITUDE IN	ISIDE EYE
K	13 C/ NA	c	DEWPOINT TEMP /	SEA SURFACE TEMP INS	SIDE EYE	
L	OPEN NW	-55		losed wall, poorly defin		
M	C 40		E - Elliptical. Transmit o 170 to 350. Transmit dia E09/15/5=Elliptical eye,	ATION/DIAMETER: Code rientation of the major axis in meter in nautical miles. Examajor axis 090-270, length or ic eye, diameter inner eye 8	n tens of degre mples: C8= Circ of major axis 15	es, i.e., 01-010 to 190; 17 - rular eye 8 miles in diameter. NM, length of minor axis
N	12345/7		3-Wind; 4-Pressure; 5 indicate both surface	/ FIX LEVEL. FIX DETERI -Temperature. FIX LEVE e and flight level center: 3-850mb; 7-700mb; 5-50	L (Indicate so s ONLY when	urface center if visible; same): 0-Surface;
0)// N	IM	NAVIGATION FIX ACC	URACY / METEOROLOG	SIÇAL ACCUR	ACY
Р	REMARKS		2	5.		
	MAY EL MAIN	VD.	122 KT SE	QUAD 00/02	×	
ĺ	4.D	\U	TEE NI SE	_QUAD	on (Gg)	В
	JCP	F	ROM DRUPSO	NDE	8	
				(2)		



70002 28 15 8816 2755 28 40 205/286 88 10 MISSION LOG PAGE ___ OF **EMERGENCY MESSAGE** POSITION REPORT CLEARANCES TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON HDG FREQ ALT OTHER ANY OF THE FOLLOWING EMERGENCY FREQUENCIES: CAF 4190 11600 14 +10 119/65 6063 UHF/VOICE VHF/VOICE MF/VOICE HF/CW MF/CW 1. POSITION 121.5 2182 KHZ 8364 KHZ 500 KHZ 2. TIME MAYDAY, MAYDAY, MAYDAY THIS IS NOAA _____, NOAA 3. ALTITUDE - POSITION __ E/W AT - HEADING _____ TRUE/MAG 4. NEXT POSITION - AT _____ KTS TRUE/INDICATED
- FLIGHT LEVEL OR ALTITUDE ____ - WE ARE A P-3 AIRCRAFT WITH 9 SOULS ON BOARD 5. ETA - NATURE OF EMERGENCY - ASSISTANCE DESIRED 6. NEXT POSITION - PILOT INTENTIONS - WE HAVE ENDURANCE REMAINING

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	мн	VAR +E==>	TH	DR +R==>	TRK	GS	WD	ws	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
2237	START										1						520	A	A Total		
2743 2757	310K													and the second							
2259	$\times \vee$	27 (13,2 82 34,0	27 43,2 82 34.1	1	3234,2	+.1	271	UW	267	8R	275	247	177	35	700	275	PUDDE	63	+19	2318	085/9
2345		27 54,3 86 14,4	27 55.0	-17. -14	2755.1	786	300	201	302	12R	314	326	189	73	100	294	OYE				The second second
0045	0	28 58,5 39 28,0	28 59.6 89 27.5	7.1	29 00.4	1.9	187	E	129	4	185	315	347	65	(00)	752	(2)	- i	a salasii		
0145		29 us 5 87 19,9	29 49,4	-19 +12	29 51.6 87 20.0	-3.1 1	070	12	009	214	045	156	193	1(0	(00)	2113	(3)				
0230	\triangle	29 43,4 88 05,0	29 45,8 88 04,4	72.4	29 48.8 88 03.9	157	155	14	154	16R	10	228	094	77	(00)	752	EVE		New Company in		
0330	Δ	29-07.4	29-09.9	1775	29-13-5	+210	020	200	018	8L	010	348	185	100	100	245					
0570	Δ	28-53.9 89-12.6	28-56.6 89-11.9	-2.7	29-01,4 89-11,3	-7.5 +1.3	256	O	356	ISL	241	224	320	60	100	246			person discount		
0520	2	28 58.0	29 02.1	+1.7	79 07.Z 86 48.7	+3,9	302	10	30	19R	320	275	208	89	100	243	5/K				The second secon
0620	4	28 43,2 85 57,5	28 46.9	-3,7 +3,3	28 5 2.3 8552,3	-9.1 +5.2	124	2W	122	151	107	291	208	75.	120	267	kmcf		Special acting to		
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15	NOAA FORM	1 56-49	MI	SSION F	PREFLIC	LIGHT LOG NAVIGATOR AIRCRAFT COMMANDER FLIGHT DIRECTOR SCHEDULED/ACTUAL TAKEOFF Z DATE OF TAKEOFF SPANOB/SIEGEL/TEBERST SHEPHERD 2300/2757 155EPO4							pa 199										
i.	(2-95)		DESTINATION KMC F		MISSION	V#6		BRAK	OB/SI	Ebel	TEB	EEST		SHE	pheri		2300	1225	7	155EP04			
Ĭ	WP	LAT	/ LON	RTE	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	ws	ALT	TAS	LEG / TOT DIST	LEG / TOT	PROP ETA	ETA	ATA	REMARKS	Ver		1
KMF	1	N27 4 W82	51,7 30,8	300	275	2W	273	0	273	280	ال	\vee									INS PERFO	and the state of the state of	CE INS 2
RUDOF			55.2		268	5	266	* C *	266	280			in and		112.77	10 A	1			PARTY STATE OF THE	BEGIN ALIGN		
IP	3		39,D 49,0	70	316	0	316	I	316	280											TIME 2	17	2117
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		1000	200		"		P. F														REMARKS		
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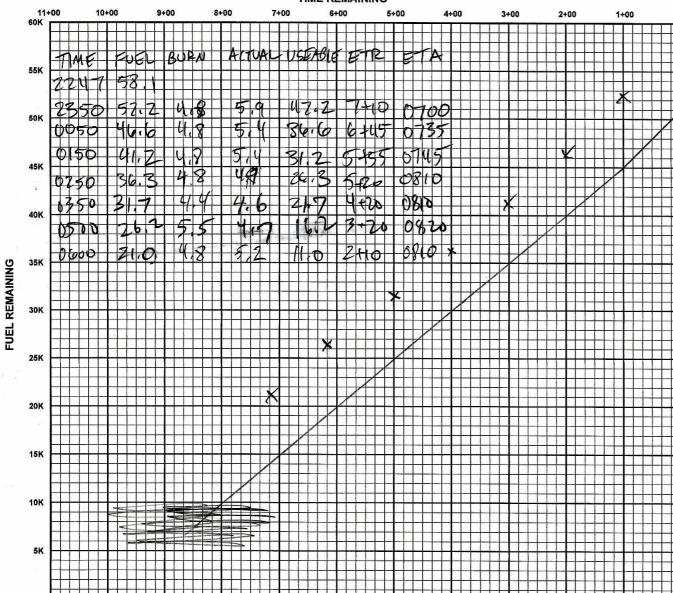
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
AIRCRAFT OPERATIONS CENTER

and the state of

FIX TYPES
(G) - GPS (I) - INS (R) - RADIO (V) - VISUAL (C) - CELESTIAL (D) - DR PAGE ___ OF __ MISSION LOG NEXT PT POSITION INS 1 POSITION KERR INS 2 POSITION KERR MH TIME TH GS WD TRK WS ALT TAS DIST TIME **ETA** REMARKS +R==> 28 53, 4 88 11, 0 29 03.6 88 06, 8 810 29 15.0 008 29 55.1 012

RANGE CONTROL GRAPH

TIME REMAINING



ENROUTE F	UEL
ENROUTE TIME	8100
ENROUTE FUEL (6K, 5K, 4.5K RULE)	41.0
RESERVE AT DESTINATION	10.0
REQUIRED RAMP	51.0
ACTUAL RAMP FUEL	58,(

	4 ENG	3 ENG
DISTANCE		
(OFFSTA TO DEST)	140	
ENROUTE TIME	-	
(OFFSTA TO DEST)		
BURN RATE	4500	5500
(LBS/HR)	4500	5500
ENROUTE FUEL		
REQUIRED		
RESERVE AT		
DESTINATION		
FUEL AT		
OFFSTA		

	4 ENG	3 ENG
ETP DISTANCE (TO DEPARTURE)		
ENROUTE TIME (TO DEPARTURE)		
BURN RATE (LBS/HR)	4500	5500
FUEL REQUIRED		12
RESERVE AT DEPARTURE		
PSR FUEL	ш	

CEX - TRUE BEARING METHOD								
COMPASS TYPE	INS1	INS2	WET					
MCH (READING)	1							
- MTH(SEXTANT)								
CE								
- VAR			-					
DEV	N.							

ted.	35						
CEX - ERB METHOD							
COMPASS TYPE	INS1	INS2	WET				
MERB (DIAL 000)							
+ ZN							
= MTH		-1					
MCH (READING)	1						
CE							
- VAR	3						
= DEV							

1	GHA	
+	CORR	
	GHA	
	LONG+W -E	
1	EXACT LHA	
	LAT	
	BODY	
	DEC	
7	HC/D	
1	CORR	
1	нс	
7	Z	
]	ZN	
	E-1	

CEX SIGHT

	# #		000		+			+		
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300 X		111						1	OEL	
10/			1		+			17	0	+
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#	++	- 11 -	1		H	H	+	-	1	+
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	100	*	1	4	4	4				
	# 1	+++	180		-	1		+	H	+

DISTANCE REMAINING	DISTANCE	REMAINING
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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									
IME	IAS	PRESS ALT	"#" FACTOR	EAS	OAT	TAS	ITAS		
			1		-				
		- 3							