



NOAA P-3 N43RF CBLAST TEST FLIGHT #2



Flight ID: I030821

Sensor or system

INE

Accelerometer

Temperature Probe

Dew Point Probe

Altitude (for vertical wind)

Static Pressure

Dynamic Pressure

Time Source

Constants File

Number or Name

1

1

1

2 (EdgeTech)

Radar Altitude 159

Rosemount Fuselage

Rosemount Fuselage

Micro 99

CO3033.CON

Notes:

There were no time/data gaps during this flight.

Radar Altimeter 159 was fixed with respect to RA232. during the following times: 1808Z - 1812Z, 1901Z - 1903Z , 1931Z - 1933Z and 2027Z - 2029Z.

The aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.
It is recommended that these values be used for vertical wind analysis.

	Takeoff	Landing
Aircraft Static Pressure	1017.7 mb	1015.5 mb
Corrected Tower Pressure	1017.5 mb	1015.6 mb

Flight Director:

A. Barry Damiano (813) 828-3310 ext. 3073

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AOCWF-1

Flt ID: ID30821	From: KMCF	To: KMCF
Flt No: 03-66	Blk In: 2252z	ATA: 2241z
ETD: 1700z	Blk Out: 1654z	ATD: 1703z
ETE:	Blk Time: 5:58 (6.0)	Flt Time: 5:38 (5.6)
Sponsor Org: HRD	Program: CBLAST	Purpose: CBLAST CALIBRATION BAT PROBE

AOC Personnel

AC: KENNEDY	Sys Eng: SMITH
CP: SILAH / STRONG	Data Sys: DELL LYNCH
Nav: BRAKOB	Radar:
FE: FLOYD	GPS/BT: TONG
FD: DAMIANO	Cld Phys:
Avionics: SANS SOUCI	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
BLACK, M	PI	HRD
ROGERS, R	ASST PI	↓
UHLHORN, E	SFMR	
FR FRENCH, J	BAT	
LASWELL, J	LASERALT, INFARED CAMERA	SCRIPPS
WASH WASH	SRA	NOAA/NASA
DRENNAN, W.	LILOR	UMann RSMAS
FARRELL, C.	PMS / CIP Probe	NOAA/ETL

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

600, 400, 200 L pattern

2500, 1200, 900, 600, 400, 200 upwind/downwind

 BUY 26°00' 85°55'
 IP 26°35' 85°16'
 END 25°24' 86°34'
1017.3
152

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AOCWF2

Flt ID: D030821 Time Off: 1703Z Time On: 2241Z

A/C (Take Off) Wx Station (Take Off) A/C (Land) Wx Station (Land)

Pressure ~~1018.0~~ 1017.7 30.06 / ~~1017.5~~ 1015.5 30.00 / 1015.9

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	<u>2</u>	
Radar Tapes	<u>1</u>	
Cloud Physics Tapes		
Video Tapes	<u>2</u>	
AXBT	<u>4</u>	
AXCP		
AXCTD		
Dropsondes	<u>2</u>	

Video

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

Remarks

Swapped out DWI prior to T/O

Same time
as 42LF ~~DB2~~ 42 LF
15-20

LF 195101

ETA 2230

Flight ID: I030821

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Form 413-50

[illegible]

~~200~~ 40 NE
1200 FT N/S

1030821

Flight ID:

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Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _s	T _a	Press. Alt	Geo. Alt	Sfc Press.	Press. Sfc	Dyn. Press	Start Leg	Remarks
200300	27 11	85 30	120	120	316	4	26.4	20.9	90	113	1015.4	1002.5	72.8	CLD	ABV
200720	27 03	85 14			end		400 ft	leg (SE)							
200920	27 06	85 13		300	262	6			start leg (NW)		1015.0	1002.6		400 ft	
201450	27 16	85 32		300	74	4			end leg (NW)					400 ft	
201555	27 15	85 36		210	43	5			start leg (SW)					400 ft	
202115	26 58	85 47			56	1			end leg (SW)					400 ft	
202300	26 57	85 43		30	261	1			start leg (NE)					400 ft	
202800	27 13	85 33		30	105	3			end leg (NE)					400 ft	
203100	27 15	85 36		120	108	4			start leg (SE)					200 ft	
203615	27 05	85 17							end leg (SE)					200 ft	
203920	27 09	85 17		300	99	10			start leg (NW)					200 ft	
204435	27 19	85 36		300	105	10			end leg (NW)					200 ft	
204620	27 16	85 42		215	97	10			start leg (SW)					200 ft	
205125	27 00	85 52		211	96	7			end leg (SW)					200 ft	
205325	26 58	85 49		30	152	5			start leg (NE)					200 ft	
205700	27 15	85 37		30	128	5			end leg (NE)					200 ft	
211000	27 43	85 05	0	1	208	6			start					1200 ft	leg
211520	28 03	85 05	0	1	198	6			end					1014.2	
211700	28 03	85 08	173	176	265	7			start					900 ft	1014.2
212215	27 43	85 05	173	175	249	5			end					900 ft	1014.1
212610	27 43	85 06	347	346	253	8			start					600 ft	1014.3
213135	28 03	85 11	347	345	270	7			end					600 ft	
213400	28 04	85 14	158	161	286	8			start					400 ft	1014.6
213850	27 43	85 05	158	161	276	6			end					400 ft	1014.2
214330	27 43	85 04	334	335	275	3			start					200 ft	1014.7
214840	28 01	85 14	334	335	232	4			end					200 ft	1014.5
220500	27 36	84 24	76	79	204	8	11.2	56.1	2694	2848	1013.9	728.8	74.3	RTW	CLD
221900	27 47	83 18	79	83	189	12	10.3	6.1	2738	2900	1014.8	724.8	76.4	IN	CLD

NOAA • AOC • SED
N43RE AVAPS DROP LOG

Project : ~~Ocean Winds '03~~ HURRICANE

Mission : C-BLAST PREP *2

Flight ID : 030821 I

Take Off : 1703

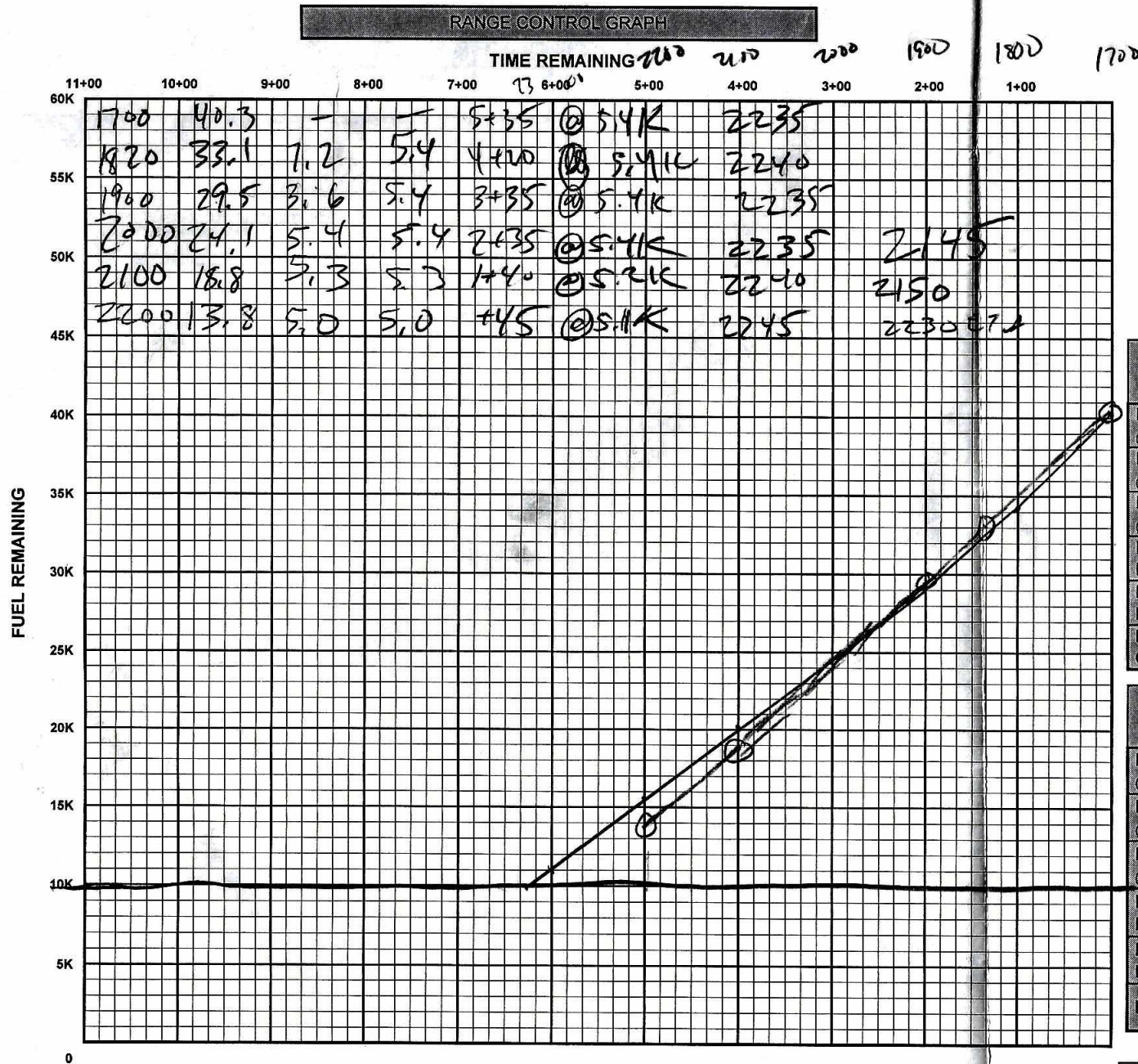
Landing : _____

[illegible]

Mission: CBLLAST PREP^{*} 2 Flight ID: 0308217

Take Off : 1703 Landing : _____

[illegible]



ENROUTE FUEL	
ENROUTE TIME	5+00
ENROUTE FUEL (6K, 5K, 4.5K RULE)	25K
RESERVE AT DESTINATION	10K
REQUIRED RAMP	35K
ACTUAL RAMP FUEL	40.3

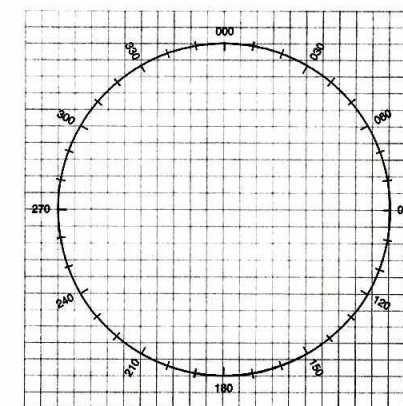
CEX - TRUE BEARING METHOD			
COMPASS TYPE	INS1	INS2	WET
MCH (READING)			
- MTH (SEXTANT)			
CE			
- VAR			
DEV			

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



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

T-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
1719	248	8K	X	X	+18	247	244

MISSION PREFLIGHT LOG		NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
DESTINATION KMIC	MISSION CBLIST cm flt #2	LT BRAKOS	CDR LENNEDY	DAMIAND	1700	21 AUG 03

[illegible]

INS PERFORMANCE		
	INS 1	INS 2
BEGIN ALIGN TIME	1500	1500
ALIGN STATUS (0-5)	0	0
END NAV TIME	2245	2245
START NAV TIME	1635	1635
DELTA T	6+10	6+10

TERMINAL ERRORS		
	INS 1	INS 2
DELTA LAT	0	-1.0
DELTA LON	-1.3	-2.8
RGS	2	3
RADIAL ERROR	0	3.

[illegible]

850 283 5270

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 43 43
THIS IS NOAA _____, NOAA _____, NOAA _____

- POSITION _____ N / S
_____ E / W AT _____ Z

- HEADING _____ TRUE/MAG

- AT _____ KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE _____

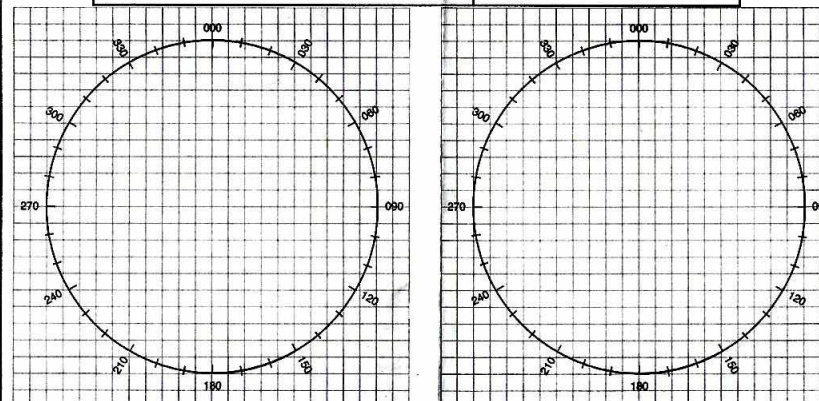
- WE ARE A P-3 AIRCRAFT WITH 18 SOULS ON BOARD

- NATURE OF EMERGENCY _____

- ASSISTANCE DESIRED _____

- PILOT INTENTIONS _____

- WE HAVE _____ ENDURANCE REMAINING

[illegible]

SONM N of IP

27-20	85-47	27-15	364.2
		85-37	

71-30 85-22

CAMA Data great 6 p.m. ✓