NOAA P-3 N43RF
CBLAST TEST FLIGHT #1

Flight ID: I030819

Sensor or system	Number or Name
INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	2 (EdgeTech)
Altitude (for vertical wind)	Radar Altitude 159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO3033.CON

Notes:

There were no time/data gaps during this flight.

Radar Altimeter 159 was fixed with respect to the RA 232 during the following times: 160452Z - 160514Z, 175254Z - 180300Z and 181031Z -181153Z.

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	1020.0 mb	1018.3 mb
Corrected Tower Pressure	1020.0 mb	1018.8 mb
Flight Director:	A. Barry Damiano	(813) 828-3310 ext. 3073

~~PETR~~ PHX

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AOCWF1

Flt ID: I030819	From: KMCF	To: KMCF
Flt No: 03 – 65	Blk In: 2034Z	ATA: 2024Z
ETD: 1500Z	Blk Out: 1500Z	ATD: 1509Z
ETE:	Blk Time: 5:34 (5.6)	Flt Time: 5:15 (5.3)
Sponsor Org: HRD	Program: CBLAST	Purpose: BAT CALIB AND CBLAST COORD. PATTERN

AOC Personnel

AC: TENNESEN	Sys Eng: SMITH
CP: HALVERSON / TEBEEST	Data Sys: LYNCH
Nav: ADLER	Radar:
FE: FLOYD	GPS/BT: JONG
FD: DAMIDANO	Cld Phys:
Avionics: SANS SOUCI	

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
MIKE BLACK	PI	HRD
JEFF FRENCH	BAT	NOAA
UHLHORN, E	SFMR	HRD
ROGERS, R	ASST. PI	HRD
[redacted]	[redacted]	[redacted]
WALSH, E.	SRA	NOAA/NASA
LASWELL, J	Laser RA, IFARED CAMERA	SCRIPPS
	Get time lock	42 track expand/downrad

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

50

~~40~~ n of buoy 42003 coord — 43 at 2500 FT (5K) — Ck 12+16 for XBT

Start drops 30 nm from buoy

1st BT drop — 10 minute delay at buoy then east bound

2+3 simulate — ① BT — call out buoys

4 sonde — ② SONDE

5 BT — ③ Sim — 30 second spacing

④ Sim

⑤ BT

26 50'
85 55'

go 10 NM S of buoy

2540 8515

BUOY 26°00 85°55'

2500
1200
900
600
400
200
120 (2 minutes)

20 NM

BT FIRST – sonde on combo

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AOCWF2

Flt ID: I030819	Time Off: 1509Z	Time On: 2024Z

	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
Pressure	1020.0	30.13 (1020.3)	1018.3	30.10 - 30.12

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

Video

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

Remarks NO KLW

1741Z Lose Alt 18 kft

Bad DWL 1525Z

Both radar have low reflectivity

Both P3 lose same time

Flight ID: I030819

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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
151600	2738	8251	264	266	275	3	12.0	5.5	2381	2568	1020.9	758.2	85.4	CIR ABV
153000	2733	8356	267	267	252	5	11.5	6.6	2549	2739	1019.5	742.3	80.8	near CB
155000	2705	8528	238	240	336	3	11.5	4.7	2543	2732	1019.0	742.8	89.8	ABV SCT CLD
160600	2648	8556	180	183	286	8	18.1	15.7	1396	1522	1019.4	858.4	76.7	INBOUND CLR
161044	2629	8556												BT/ ~~Sonde~~
161128	2626	8556												DROP
161158	2625	8556												DROP
161230	2623	8556									1019.6			DROP Real
161320	2620	8556												BT
161808	2600	8555									1019.2			ABEAM BUOY
163620	2543	8554												DT REAL
163650	2541	8554			2544						1019.2			Sonde REAL
163720	2538	8554												—
163750	2537	8554												—
163720	2535	8555												—
														BT
170130	2547	8452	319	320	135	3		2500 ft			1019.4			start leg
170705	2605	8508												end leg
170830	2605	8502		140				1200 ft				Along		start leg
171145	2548	8450						1200 ft						end leg
171625	2547	8455		318				900 ft			1018.8			start leg
172130	2602	8509		320				900 ft						end leg
172340	2559	8512		141	34	3		600 ft			1018.8			start leg
172845	2543	8458		140	55	11		600 ft						end leg
173100	2541	8503		320				400 ft						start leg
173610	2556	8517		320				400 ft			1018.7	with		end leg
173900	2555	8512		140				200 ft			1019.4			start leg
174415	2540	8458		140				200 ft			1019.3			end leg
								CROSS TRACK						
175640	2547	8506		42				2500 ft			1020.9			start leg
180215	2608	8447		40	233	4		2500 ft						end leg
180500	2608	8453		220	51	4		1200 ft			1018.4			start leg
181950	2552	8508		220	23	3		1200 ft			1018.1			end leg
181200	2551	8503		40	106	1		900 ft						start leg
181700	2607	8448		40	73	1		900 ft						end leg

Flight ID: I030819 CROSSWIND

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
181900	2608	8454	220		58	6	600 ft				1018.4			start leg
182350	2553	8507	220		67	6	600 ft				1018.2			end leg
182550	2551	8503	40		98	3	400 ft				1018.3			start leg
183050	2607	8448	40		53	3	400 ft				1018.3			end leg
183320	2607	8454	220		43	6	200 ft				1018.6			start leg
183815	2551	8508	220		66	4	200 ft							
190400	2708	8419	69	69	264	7	12.9	10.1	2238	2407	1019.6	771.8	99.9	CBs around
192250		~~HH~~						Yaws		slow				
193225														
193570		~~HH~~						Yaw fast						
194200		slow - speed up - slow												
194550														
194715		284		BOX						Pitch				
194915		284												
										200820				
195010		15								201050				
195210		15												
195310		105												
195510		105												
195625		195												
195825		195												
								160						
200010		Right Circle				20								
200245														
200310		left Circle					160							
200600														

NOAA • AOC • SED

N43RF AVAPS DROP LOG

Project : ~~Ocean Winds '03~~ Mission : C-BLAST PREP Flight ID : 030819 I

Take Off : 1508 Z Landing : 2024 Z

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Comments	Good ?
1	023535 366	1	0	1612		RT		✓
		2	0			RT		✓
		3	0			RT		✓
		4	0			RT		✓
2	023535 159	1	+2	1806		RT		✓
		2	-1			RT		✓
		3	0			RT		✓
		4	0			RT		✓

INT 264°M

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION	MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
KMCF	CBLAST CAL	ADLER	TENNESEN	DAMIANO	1500 / 1508	19AUG03

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
9	KMCF																	
1	CIGAR																	
2	IP																	
3	MINNOW 26 02.8 085 59.0																	
4	DROPS 26 30 085 55																	
5																		
6																		
7																		
8	BUOY EYE 26 00.5 085 54.8																	
						TIME	FUEL	FF	CAC PF	ENPV'R								
						1505	36.5	/	/									

16 SOB

INS PERFORMANCE

	INS 1	INS 2
BEGIN ALIGN TIME	1215	1215
ALIGN STATUS (0-5)	4	4
END NAV TIME	2024	2024
START NAV TIME	1480	1480
DELTA T	5+34	5+34

TERMINAL ERRORS

	INS 1	INS 2
DELTA LAT	-6.1	-.3
DELTA LON	+2.1	-1.3
RGS	4	2
RADIAL ERROR	6	1.

REMARKS 0036Z
RRR

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
AIRCRAFT OPERATIONS CENTER

320

161833 Joam to Boug

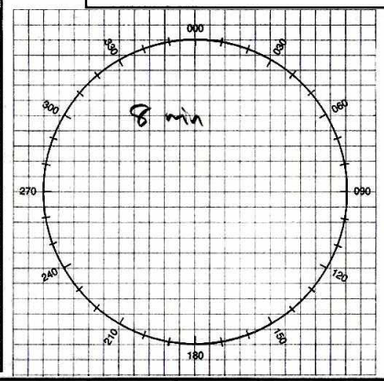
06

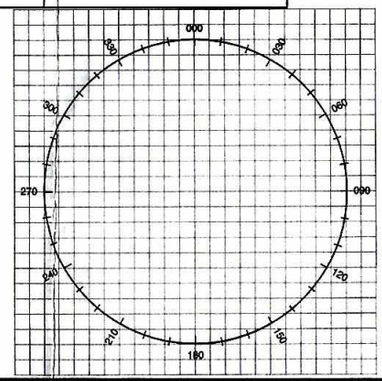
MISSION LOG

PAGE ___ OF ___

CLEARANCES

FREQ	ALT	HDG	OTHER





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 _____ 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
1457 1500	ENG TAXI																				
1500 1508	BLOCK T/O																				
1510	X✓	27 47.4 082 32.3	27 47.2 082 32.3	+.2 +0	27 47.2 082 32.3	+.2 +0				L	186	210	200	15	8K	220	CIGAR			1541	194/5 ✓ 47
1552	△	27 00.8 085 39.4	27 00.8 085 39.7	+0 -.3	27 00.2 085 39.9	+.6 -.5				2L	238	270	005	10	8K	260					
1650	△	25 19.5 085 30.6	25 20.6 085 29.8	-1.1 +.8	25 19.3 085 30.4	+.2 +.2				1L	055	240	L/✓		5K	246					
1757	△	25 50.8 085 02.8	25 53.2 085 01.6	-2.4 +1.2	25 50.8 085 03.0	+0 -.2				1L	041	244	L/✓		25K	242					
1851	△	26 33.5 085 01.5	26 36.6 085 01.5	-3.1 +0	26 33.4 085 02.9	+.1 -1.4				0	015	245	L/✓		3K	238					
1945	▷	27 51.4 083 27.5	27 55.8 083 25.3	-4.4 -2.2	27 51.5 083 28.0	-.1 -.5				L	177	256	335	10	3K	253					
2024	△	LAND KMCF																			
		27 51.0 082 29.6	27 51.1 082 27.7	-.1 +2.1	27 51.3 082 30.9	-.3 -1.3															

41
16 57

16
25
41