

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

Flt ID: 040628I	From: kmcf	To: kmcf
Flt. No: 04-036	Blk In: 2134 z	Time On: 2124 z
ETD: 1300 z	Blk Out: 1648 z	Time Off: 1656 z
ETE: 5 <del>X</del> +00	Blk Time: 4+46 (4.8) Hrs	Flt Time: 4 + 28 (4.5) Hrs
Sponsoring Org: HRD	Program: CBLAST	Purpose: Instrument Calibration

**AOC Flight Crew**

Aircraft Commander: Strong, Silah	Data System: Lynch, T
Co-Pilot: Sitah, Choy	AVAPS: Tong, R
Navigator: Adler, Strong	System Eng:
Flight Eng: Floyd, Kippel	A A:
Flight Director: Mayeaux, Damiano	A A:
Avionics:	Crew Chief:

**Participating Scientists / Visitors**

Name (Last, First)	Activity on Aircraft	Affiliation
Rogers, R	PI	HRD
Wilhoorn, E	Sci	<del>HRD</del> HRD
Gamache, J	Obs	HRD
French, J	Sci	HRD
Lasswell, J	Sci	HRD
Walsh, E	Sci	HRD
Litchendorf, J	Sci	HRD
Eriebe, C	DBS	ONR
Hvergo, J	OBS	ONR

**Remarks (Storm Name, Mission ID, Recco Times, Fix Times)**

Storm Name: \_\_\_\_\_ Recco Times: \_\_\_\_\_ Fix # \_\_\_\_\_ Fix Time \_\_\_\_\_

Mission ID: \_\_\_\_\_

Penetration number and time \_\_\_\_\_

Inc 2 Replaced <sup>Prior to</sup> ~~for~~ mission

Balance Dewpt #) 172200 Radar Down - 174118 -  
 RA off 172857z

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Flight ID: **040628I**      Time Off: **1656**      Z      Time On: **2124**      Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	<b>1021.5</b> mb	<b>3020</b> <del>1021.5</del> mb	<b>1016.4</b> mb	<b>3012</b> <del>1019</del> mb

ATIS	Time	Observation
Takeoff	<b>1555Z</b>	<b>10006KT 75m FEW035 BKN110 29/24 A3020</b>
Land	<b>1955Z</b>	<b>02005KT 75m FEW035 30/21 A3012</b>

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes	<b>1</b>	Good: /    Bad:
<i>Sonabuoys</i>	<b>2</b>	
AXBT	<b>4</b>	
AXCP		
AXCTD		

**Remarks:**  
**1455Z 09009KT 27/23 PA-267 P65m A3020 CIR**  
**1555Z 10006KT 75m FEW035 BKN110 29/24 A3020 -267PA**



# NOAA P-3 N43RF CBLAST- CALIBRATION FLIGHT FLIGHT 1



## Flight ID: 040628I

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	2 (Edgetech)
Altitude (for vertical wind)	Radar Altimeter 159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage 1281
Time Source	Micro 99
Constants File	CO3042.CON

### Notes:

There was one time/data gap during this flight due to a data system crash between 174611Z-175150Z.

The King Liquid Water Sensor was inoperative during the entire flight.

RA-232 was substituted for RA-159 from 165301Z-165728Z and from 212420Z-212700Z.

Otherwise, All other instruments worked optimally during the flight.

The aircraft INE positions were re-navigated 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.

	<b>Takeoff</b>	<b>Landing</b>
Aircraft Static Pressure	1021.5 mb	1016.4 mb
Corrected Tower Pressure	1022.6 mb	1020.0 mb

Flight Director: Marty Mayeaux (813) 828-3310 ext. 3086

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Form 413-50

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T <sub>a</sub>	T <sub>d</sub>	Press. Alt	Geo. Alt	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
165857	2749	8729	34	35	121	4.8	26.1	19.5	281	371	1022.1	981.1	76.9	Takeoff
170100	2753	8730	210	208	135	5	26.3	16.0	286	372	1021.5	991.9	58.7	Start over Runway
170205	2750	8732												End over Runway
175610	2536	8534	271	271	101	11.5	21.7	16.7	845	955	1021.0	916.0	80.2	
183211	2559	8554	330	334	113	13.3	23.5	18.5	630	724	1020.2	939.8	64.9	4 Drop Suite 2400
183740	2617	8605												End 2400 ft leg
184005	2616	8605	150	150	120	9.3	22.9	21.3	630	724	1020.2	939.8	65.0	Begin Return 2400 ft
184608	2559	8553												End Return 2400 ft
185000	2601	8555	330	352	107	11.3	26.1	23.3	282	358	1019.9	979.9	63.0	Begin 1200 ft leg
185515	2617	8605												End 1200 ft leg
185749	2616	8605	150	150	108	9.6	26.2	22.3	273	356	1020.2	980.3	69.0	Begin 1700 ft leg
190348	2554	8554												End 1700 ft leg
190653	2606	8554	331	334	101	9.7	26.9	24.1	194	267	1020.0	990.1	69.5	Begin 900 ft leg out
191207	2617	8605												End 900 ft leg out
191455	2616	8605	151	150	97	10.6	27.1	22.6	194	265	1020.0	990.2	65.1	Begin 900 ft leg in
192105	2558	8554												End 900 ft leg in
192402	2559	8554	312	319	100	12.9	27.9	23.9	109	174	1019.9	1000.2	68.6	Begin 600 ft leg out
192934	2613	8616												End 600 ft leg out
193234	2614	8609	136	135	107	10.9	28.0	23.2	110	174	1019.7	1000.2	65.6	Begin 600 ft leg in
193854	2559	8553												End 600 ft leg in
194222	2556	8542	91	94	114	11.1	22.3	17.6	786	885	1019.6	922.2	68.1	Begin Pitch maneuver
194751	2556	8521												End Pitch maneuver
194856	2556	8519	80	79	119	11.0	22.6	18.7	809	911	1019.7	919.5	65.3	Begin Yaws
195128														Begin Yaws Again
200157	2554	8429	108	109										End Yaw maneuver
200251	2550	8416	108	109	111	7.9	22.5	17.5	815	910	1019.2	919.2	55.2	Begin Speed maneuver
201430														End Speed maneuver
201930	2554	8433	314	318										Start Circle Right
201655														End Circle Right
201710	2555	8435												Start Circle Left
201930														End Circle Left
202045	2557	8436	104	106	110	11.5	22.4	17.5	810	909	1019.4	919.4	63.7	Start leg 1 into wind
202325	2554	8430	195	195										Start leg 2
202605	2547	8431	285	285										Start leg 3
202850	2551	8442	015	015										Start leg 4
203050	2557	8441												End leg 4
204153	2634	8413	035	037	103	9.5	15.5	4.0	2027	2186	1019.0	790.8	87.7	Drop

Mission Just Test Flight

Fit ID 040628I

SED Crew Lynch, Tong

Pre-Flight 14:00 Take-Off 16:56 Landing 21:24

System		Pre-Flight		In-Flight			Post-Flight			
NAV	GPS	FM: 1		OS			LAT	Lon	GS	RE
	INE #1	Time On: 1350Z	Aligned to: 0	OS			-3.5	+1.6	2	4
	INE #2	Time On: 1350Z	Aligned to: 0	OS			-3.1	+1.8	2	4
	Diff GPS			TL						
RADAR	MARS Data	Start	Stop	Ready?	HRD?		# DATs ? 2 Given To: J Down.			
	MARS	17:17	17:35	TL	Y/N	(2)				
	MARS Data / Tape Status	17:53	21:07		LPRec	TARec	EOFs			
	MARS	Clean	TL	TL						
	MARS (LU9)	Clean	TL	TL						
	RADAR R/T SN	Tail 202102LF	10Z	TL	Mod Switches	ON		Mod Switches OFF		
PMS	Nose			OS			Power	OFF		
	FSSP Ref VDC:	Covers	OFF	NI			Covers	ON		
	Cloud Mono	Covers	OFF				Covers	ON		
	CIP	Covers	OFF				Covers	ON		
	SEA Data DAT	Start	Stop	Ready?	#DATS	Errors	Disk Write	Given To: -		
DAT	Clean?					Y / N	-			
TEMP		Cal High	Cal Low				Cal High	Cal Low		
	Temp #1	30.0	-30.5	TL			30.7	-30.2		
	Temp #2			TL			Power	OFF		
	Temp #3			NI	(3)		Power	OFF		
	Dewpoint	#1 #2 #3 (TDL)		TL			Power	OFF		
PRES	Attack / Slip Angle	AP DP RP DBP		TL			Power	OFF		
	Differential	P01 P02 P03 P04		TL			Power	OFF		
	Absolute	P01 P02 P03		TL			Power	OFF		
FLTLVL	Apr-159 SN:	SN-1		TL			Power	OFF		
	Apr-232 SN:	1699		TL			Power	OFF		
	Liquid Water	J&W	1kg			28V WOW: ON ?	Power	OFF		
	Radiometer	CO2 SST		TL		28V WOW: ON ?	Power	OFF		
RAMS	RAMS Data	Start	Stop	Ready?	Errors 8:	Errors 9:	# DATs ? 4 Given To: MM			
	CPU: (A) B	16:45	17:40	TL			Power	OFF		
	RAMS Data / Tape Status	17:52	21:35		Slow Rec	Fast Rec	Disk Records: 1342			
	RAMS (LU8)	Clean	TL	TL						
	RAMS (LU9)	Clean	TL	TL						
	Flight Director Laptop			TL			Power	OFF		
	Network			NI						
	ASDL Mission #:	6XXXX	Name: TEST	TL	Freq: 30	Block: 10	Power	OFF		
	C.I. Printer	Start	Stop	Ready?	Paper Bin Stores		Given To: MM			
	PRATE:	10	16:45	TL	0%	25%	50%	75%	100%	Power
MISC	Exterior Walk Around	(Plugs)	(Covers)	RT			Plugs	Covers		
	SATCOM	W/S Inmarsat	GlobalStar	OS			Power	OFF		
	AXBT Internal	# Loaded:					# Launched:			
	AXBT External	# Loaded:	8	OS	28V WOW		# Launched:	8		
	AVAPS	# On Board:	4	SAS			# Dropped:	1		
	Video Cameras	Start	Stop	Ready?	Cameras	Mode	# Tapes ? 2 Given To: -			
	VHS SVHS				N L R D	2 / 12	Lens Cap ?:			
USER	FCU	-A-B-C-		TD			UPS	OFF		
	SFMR	HRD	AOC				Accelerometers			
	NASA SRA						#1 (2 G):	8208		
	ARL BAT Probe, SST & IRGA						#2 (2.5 G):	16687		
	UW PDA						#3 (3 G):	5967		
Scripps MASS, Laser Alt, IR Cam & Sono						#4 (3.5 G):	2892			
RSMAS Licor			TL							

17:46  
17:52













