		U.S. Dep't.	of Commer	ce / NMAO /	NOAA / Aircraft O	Ingrations Co		
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FLT#:	11-067		Blk In:	013			6121	
ETD:		Z	Blk Out:	1, 00	<del></del>	Lnd Time:	1160	
ETE:	V-1000		Total Blk		HRS	T/O Time:	1632 z	
Sponsorin	ig Org: N	HC	Program	11 -	- 101 - 100	Total Flt:		
			n rogium	AOC Flig		Purpose:	DORA	
Aircraft Co	ommander:	NFL L	LALVE	,	A.129	DE	is ka	-
Co-Pilot:		N .	ERNS	,	Data System: Avaps:	BE RICH	1200 140 De	-
Navigator:	1.000000	DERI	<u> </u>			·	1100	
Flight Eng:		RBY / KI	10857		System Enginee	r:		
Flt Director	~ ~ ~		ARRI		AA:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
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PARRISH PENNY #1500 1 PENNY

FLT ID:	T/O Time:	Z	Lnd Time:	Z
Name (Last, First)	Activity on Ai	rcraft	Affilia	tion
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Remarks:				
Remarks.				



## N43RF ERROR SUMMARY EPAC HURRICANE DORA MISSION



### Flight ID: 20110722I1

Sensor or system	Number or Name				
INE (for wind derivation)	INE1				
Accelerometer	ACCI1				
Temperature Probe	TT1				
Dew Point Probe	TDM2				
Static Pressure	PSF				
Dynamic Pressure	PQF1				
Vert. Wind	ALTI1				
Constants File	/acdata/adc/43_11v3.adc				
Project Directory	/acdata/2011/MET/20110722I1				

### Notes:

There were two data gaps: 163741Z -163816Z and, 220851Z -220903Z.

From 220424Z – 220850Z, many measured parameters erroneously "flat-lined," thus resulting in erroneous derived parameters where the erroneous measured parameters were used. The parameters that erroneously flat-lined follows.

AXBT1	AXBT2	AXBT3	KLWC
LICXXX*	PCAB	PDAF	PDAR
PDSF	PDSR	PQAF	PQF1
PQF2	PQR	PQSF	POW
PRT5_DOWN	PRT5 SIDE	PSF	PSW
PTR	SC_TCG1	TDM1	TDM2
TDM3	TDMBAL	TT1	TT2

<sup>\*</sup>All parameters that start with "LIC" are included in the table above.

During the flight there were instances where dewpoint temperature values exceeded derived ambient temperature values resulting in humidity values above 100%. These situations occurred during heavy precipitation events. All other instruments worked optimally during the flight.

There were nineteen (19) GPS dropsondes deployed...18 good 1 bad. There were sixteen (16) AXBTs deployed... 14 good 2 bad.

SPECIAL NOTE!!! The variable names dpj\_wgs, dpj\_was and dpj\_wz in the netCDF file represent vertical ground speeds, vertical air speeds and vertical wind speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

## Takeoff(1652Z) Landing(0131Z)

Aircraft Static Pressure

1011.4mb

1009.9 mb

**Corrected Tower Pressure** 

1010.9mb.

1009.5mb

Flight Director:

Ian Sears

(813) 828-3310 ext. 3039

# NOAA • AOC • SED N43RF AXBT DROP LOG

Project: H	lurricane 😸	Mission:	EGST PAC	Flight ID:	ZEC 101165
Operators :	chey K	Chards	DORA		2) t. Pi
		5		<b>3</b> 9	
Take Off:			Landing:		

Drop#	Drop Time	Channel	Tube	. Lot	Comments	Good
1 ·	1912	12.	IA	029	24°C	V
2.	1936		1B		24°C + DROPS RAPID	yu
3	2008	67	10			NO
4	2020		free fa	دل	25.7°C	1
5	2041	-	ID!!		25%	1
6	2047	=	16		25.7°C 25°C 26°C 26°C 24°C 24°C	V
- <del>[</del> 3	2059	2	) F.		26.4°C	1
3	2116		2A	· derode	24 =	V
	2133		28		25°C	V
10	2143		2C	N. Controller	2436	1
$\mathcal{U}$	453		57)	Supplied and the second	24°6 24.5°c	V
12	2207		2E	and the fact that	2/°c	V
12	22/7		3A	4	2/°c 2/°c 24.5°c 25.°c	V
14	5551		3 B	) The second sec	25.°C	/
15	2254		30	The state of the s		NO
16	23.67		30			
17						
18					*	
19		W		V		
		237				
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		3.4				
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			200	el		
April 1		*				
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## NOAA • AOC • SED

N43RF AVAPS DROP LOG

	MASKEN	VAPO DROP LL	JG	
Project: Ocean Winds 2011	Mission: Dof A	FLIGHT 1	Flight ID: 20/10722I	
Take Off:	Landing:	Flt Dir :	SEARS/PARKISH	

<u>П</u>	In Carl Age			<del>r</del> -	Ti			
Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	103845 222	. 1	6	1912	wro	PRX	- 3-	1
2	102125176	7	+.3	1934		1		1
3	103825250	3	4,4	2008				1
. 4	102125074	4	+3	2020		FF 6	P 4	V
5	103825 220		+,7	2025		25 25		-
6	103955017	ک	+.6	2031				V
7	103845200	3	7.5	2040	-			
8	103855008	4	+.6	2047	1			
. 9	103855200	<u>j</u>	+.4	2059				
> 10	102515 063	1	0	2116	TMR		Fost Yall	
11	103 855 047	<u>₹</u>	7.6	2133				
12	102 125042		1.8	2143				/
13	294735142	4	7	2153				V
14	102 115272	2.	+.6	220/	Λ		***	
15	102 125 016	2	1.2	2366		1		V
16	102 125 046	3	0	2217		, ,		/
17	102 115 281	4	t.5	2527	-	*		
18	102 115 258	/	1.5	2254			Veck, Lots of Noise	
19	102125037	2	+9	2307	-	4	,	1
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21		•						
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000 WTPZ44 KNHC 221431 TCDEP4

HURRICANE DORA DISCUSSION NUMBER 17 NWS NATIONAL HURRICANE CENTER MIAMI FL 800 AM PDT FRI JUL 22 2011

EP042011

DORA CONTINUES TO WEAKEN. WHILE CONVECTION HAS REDEVELOPED NEAR THE CENTER...THE SATELLITE SIGNATURE IS NOT VERY IMPRESSIVE WITH ALMOST OF THE CONVECTION IN THE SOUTHEASTERN PORTION OF THE CYCLONE. SATELLITE INTENSITY ESTIMATES ARE 77-82 KT FROM SUBJECTIVE AND OBJECTIVE DVORAK TECHNIQUES...THOUGH THE DATA T-NUMBERS ARE QUITE A BIT LOWER. THE WIND SPEED IS REDUCED TO 75 KT FOR THIS ADVISORY. A NOAA RESEARCH AIRCRAFT IS SCHEDULED TO CONDUCT A RESEARCH MISSION INTO DORA LATER TODAY TO OBTAIN A BETTER WIND ESTIMATE.

WATER VAPOR IMAGES SHOW THAT UPPER-LEVEL NORTHEASTERLY WINDS ARE CONTINUING TO CAUSE SHEAR ON DORA. ALTHOUGH GLOBAL MODELS DO WEAKEN THIS FLOW SOMEWHAT DURING THE NEXT DAY OR TWO...DORA WILL BE MOVING OVER COOLER SSTS AND PROBABLY WILL NOT GET A CHANCE TO TAKE ADVANTAGE OF THE DECREASED SHEAR. THE NHC INTENSITY FORECAST WILL SPLIT THE DIFFERENCE BETWEEN THE STATISTICAL AND DYNAMICAL MODELS...CALLING FOR STEADY WEAKENING...SIMILAR TO THE PREVIOUS ADVISORY. DORA WILL BE OVER SSTS NEAR 21C IN ABOUT 48 HOURS... LIKELY CAUSING ANY ORGANIZED CONVECTION TO DISAPPEAR AND FOR THE SYSTEM TO TRANSITION INTO A REMNANT LOW BY THAT TIME.

THE CYCLONE CONTINUES MOVING NORTHWESTWARD AT 8 KT ALONG THE SOUTHWESTERN FLANK OF A DEEP-LAYERED RIDGE. WHILE THERE IS AN OCCASIONAL MODEL OUTLIER TAKING DORA CLOSER TO BAJA...THE MAJORITY OF THE GUIDANCE SHOW A NORTHWESTWARD TRACK FOR THE NEXT SEVERAL SEVERALS. THE LATEST NHC FORECAST IS BASICALLY AN UPDATE OF THE PREVIOUS ADVISORY AND IS JUST TO THE LEFT OF THE MODEL CONSENSUS.

ALTHOUGH THE PROBABILITY OF TROPICAL STORM FORCE WINDS FOR SOUTHERN BAJA CALIFORNIA IS DECREASING...IT IS PRUDENT TO LEAVE THE TROPICAL STORM WARNING UP FOR NOW UNTIL WE ARE MORE CONFIDENT OF THESE WINDS STAYING OFFSHORE.

FORECAST POSITIONS AND MAX WINDS

22/1500Z 19.3N 109.4W 75 KT 85 MPH 12H 23/0000Z 20.0N 110.2W 60 KT 70 MPH 23/1200Z 21.0N 111.3W 24H 45 KT 50 MPH 24/0000Z 22.0N 112.5W 35 KT 40 MPH 36H 48H 24/1200Z 23.1N 113.9W 30 KT 35 MPH...POST-TROP/REMNT LOW 25/1200Z 25.0N 116.5W 30 MPH...POST-TROP/REMNT LOW 72H 25 KT 96H 26/1200Z 26.5N 118.0W 20 KT 25 MPH...POST-TROP/REMNT LOW 27/1200Z...DISSIPATED

105.

\$\$ FORECASTER BLAKE

Quick Navigation Links:

	DATE SCHE		DULED RX TIME	AIRCRAFT NUMBER	FLIGHT D	DIRECTOR				
W	WX MISSION IDENTIFIER				<u>, , , , , , , , , , , , , , , , , , , </u>	<del>-</del>	OB NUMBER			
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	3	19 DEG 49MIN	N S	LATITUDE of FIX						
	-	OF DEG 48IN	WE	LONGITUDE of FIX		)	127			
		850 MB 1335	M	MINIMUM HEIGHT	of STANDARD LEVEL	(*)				
		55	KT ·	ESTIMATE of MAXIM	MUM SURFACE WIND OBS	ERVED				
E		353 DEG 18	NM	BEARING and RANG	GE FROM CENTER of MAX	IMUM SUR	FACE WIND .			
F		(00 DEG 69	KT	MAXIMUM FLIGHT	LEVEL WIND NEAR CENTE	R				
C	3	358 DEG 29	NM	BEARING and RANG	BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND					
H	1	788	МВ	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAP- OLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.						
1		13 C/144	74	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE						
<u>ل</u> ــــا		20 C/163	3M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE						
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M		MA		E - Elliptical. Transmit o 170 to 350. Transmit dia E09/15/5=Elliptical eye,	ATION/DIAMETER: Code existing the code existing and the major axis in ameter in nautical miles. Examples axis 090-270, length of the code, diameter inner eye 8 Notes and the code.	tens of degre plès: C8= Cir najor axis 15	ees, i.e., 01-010 to 190; 17 - cular eye 8 miles in diameter NM, length of minor axis			
·N		1345	3	FIX DETERMINED BY / FIX LEVEL. FIX DETERMINED BY: 1-Penetration; 2-Radar; 3-Wind; 4-Pressure; 5-Temperature. FIX LEVEL (Indicate surface center if visible; indicate both surface and flight level centers ONLY when same): 0-Surface; 1-1500 ft; 9-925mb; 8-850mb; 7-700mb; 5-500mb; 4-400mb; 3-300mb; 2-200mb; NA-Other						
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