NOAA P-3 N43RF
Hurricane Research
TS ISIDORE LANDFALL
IN LOUISIANA

Flight ID: I020925

Sensor or system	Number or Name
INE	1
Accelerometer	1
Temperature Probe	1
Dew Point Probe	3 (Buck Research)
Altitude (for vertical wind)	Radar Altitude (RA-159)
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO3022.CON

Notes:

There were no time/data gaps.

The radar altimeter 159, RA159, had numerous spikes during the following time frames: 0039Z - 0041Z, 0153Z - 0155Z, 0219Z - 0221Z, 0301Z - 0303Z, 0305Z - 0307Z, 0311Z - 0313Z, 0329Z - 0331Z, 0402Z - 0404Z, 0414Z - 0416Z, 0432Z - 0434Z, 0515Z - 0517Z, 0519Z - 0521Z, 0615Z - 0617Z, 0622Z - 0625Z and 0646Z - 0656Z. These spikes were removed and patched over using the RA232 (radar altimeter 232) and pressure altitude as references.

The King liquid water probe was not operating for the entire mission.

There were several occurrences during the flight where dewpoint temperature exceeded ambient temperature from heavy precipitation events.

All other instruments worked optimally during the flight.

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	1008.6 mb	1008.0 mb
Corrected Tower Pressure	1008.8 mb	1008.0 mb
Flight Director:	A. Barry Damiano	(813) 828-3310 ext. 3073

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

AOCWF1

Flt ID: 020925I	From: KMCF	To: KMCF
Flt No.: 02 - 37	Blk In: 0817Z	ATA: 0800Z
ETD: 2230Z	Blk Out: 2216Z	ATD: 2230Z
ETE:	Blk Time: 10:01 (10.0)	Flt Time: 9:30 (9.5)
Sponsor Org: NHC	Program: HURR. RECCO	Purpose: TS ISIDORE LANDFALL

AOC Personnel

AC: KENUL ✓	Sys Eng: SMITH ✓
CP: HALVERSON / SDAH ✓	Data Sys: LYNCH ✓
Nav: NEWMAN	Radar:
FE: CURRY / FLOYD ✓	GPS/BT: TONG
Avionics: SANS SOUCI ✓	Cld Phys:
FD: DAMIANO ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
DODGE, P. ✓	HAPS	HRD
CIONE, J. ✓	AXBT	↓
GAMACHE, J. ✓	RADAR	↓
UHLHORN, E ✓	SFMR	↓
WALSH, E ✓	SAR	NASA
BECKMAN, DAN ✓	MEDIA	NBC
NOLAN, DAVE ✓	OBS	HRD / RSMAS

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

6 0005Z
2739
9015
984 mb from sonde

6 0312
2819
9048
987 mb from drop

Baldwin 0651Z

00Z Forecast
27.9 90.3
latest 27.3 90.5

~~00Z~~ 0614Z 6
Center was inland
29 03 9035

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AOCWF2

Flt ID:	Time Off:	Time On:
D020925	2230Z	0800Z

	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)
Pressure	1008.6	29.80 / 1008.8	1008.0	29.78 / 1008.0

	Number	Data Disposition/Date/Quality
Slow/Fast Flt Lvl Tapes	2	
Radar Tapes	2	
Cloud Physics Tapes		
Video Tapes		
AXBT	12	
AXCP		
AXCTD		
Dropsondes	18	8 with no winds; 1 no launch detect

Video

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

Remarks

9883 last sonde

Flight ID: I C20925

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center — Form

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T_a	T_d	Press. Alt.	Geo. Alt.	Sfc Press.	Press. Sfc	Dyn. Press	Remarks
225100	2742	8349	267	261	169	37	4.3	-7.1	4518	4530	1003.8	594.6	58.8	CLM
231700	2739	8614	267	257	169	51	0.4	2.9	4468	4637	994.3	590.1	79.1	RW
232500	2736	8656	269	261	169	49	4.8	2.5	4460	4617	992.2	590.3	84.9	BTM OLD
234329	2732	8831	265	258	175	41	13.1	11.7	3021	3030	989.2	699.3	76.3	BT 16
235700	2730	8939	273	270	182	16	13.4	12.3	3019	3012	987.0	699.4	94.2	BTM OLD
000600	2739	9015												EYE/SONDE
002951	2737	9212	158	157	4	25	12.1	10.3	3015	3042	992.9	699.6	79.0	BT 12
004903	2628	9126	41	37	335	26	13.4	10.0	3015	3034	990.8	699.2	79.9	BT 16
011324	2754	9021												EYE/BT
014644	2914	8812	44	61	157	48	11.6	11.6	3029	3065	993.7	698.4	73.9	SONDE/BT 16
020818	3004	8703	272	264	133	65	10.4	9.6	2973	3048	1000.8	704.9	73.1	SONDE
022914	3004	8739	271	260	137	70	10.8	11.9	2999	3053	997.8	702.6	73.9	SONDE
025823	3005	8768	272	264	137	65	11.3	12.2	2997	3055	996.6	701.5	74.4	SONDE
032220	3005	8819	271	265	137	57	11.0	13.6	2990	3040	995.2	701.2	72.2	SONDE
035053	3001	8902	199	190	136	46	12.6	12.7	2023	3053	992.8	696.2	74.4	SONDE
042633	2854	8928	230	226	109	19	15.0	13.4	3041	3037	987.3	697.3	80.9	NO SONDE/BT
045047	2848	8938	232	227	115	18	15.0	14.0	3048	3027	986.3	697.3	79.3	SONDE
050745	2826	9038												SONDE
053122	2819	9048												EYE
060221	2604	8957	33	29	250	32	14.2	9.4	3035	3070	990.7	697.8	64.4	SONDE/BT
063348	2609	8953	31	29	241	31	14.3	9.7	3035	3066	990.5	698.0	64.0	SONDE
064400	2851	8759	33	41	171	52	14.1	6.5	3037	3069	991.5	697.8	78.3	DMIC
070500	3010	8709	267	256	152	59	11.6	11.9	3038	3097	996.4	697.7	68.6	SONDE
073054	3010	8739			153	62	12.3	11.9	3015	3061		699.7		SONDE
075352	3008	8752			152	64	12.4	12.8	3015	3057	993.3	698.5	76.9	SONDE
081834	3008	8819			153	53								SONDE NO
085635	3006	8900			145	45					990.1			SONDE NO
093800	2557	9058			0	21	13.6	12.3	3105	3098	995.9	691.8		SONDE
100900	2838	8748	101	110	176	37	.1	-4.5	5229	5476	994.7	523.9	77.7	[redacted]

FLIGHT LOG	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
ISLAND ONE	Neumann	Kenul	Diamond	2230 / 2229	25 Sep 02

	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARKS

INS PERFORMANCE	INS 1	INS 2
BEGIN ALIGN TIME	1630	1630
ALIGN STATUS (0-5)	0	0
END NAV TIME	0400	0400
START NAV TIME	1830	1830
DELTA T	10	10

TERMINAL ERRORS	INS 1	INS 2
DELTA LAT	-3	+3
DELTA LON	+1	-3
RGS	3	3
RADIAL ERROR	4	4

REMARKS

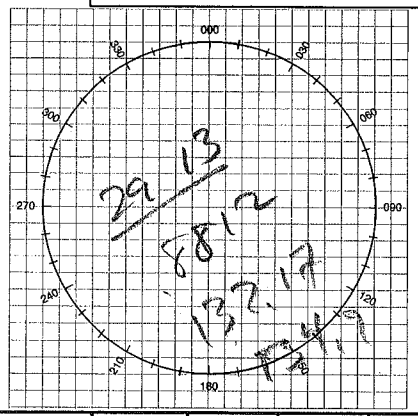
325/16 2548 ·9122 Burrage 2916.2 8

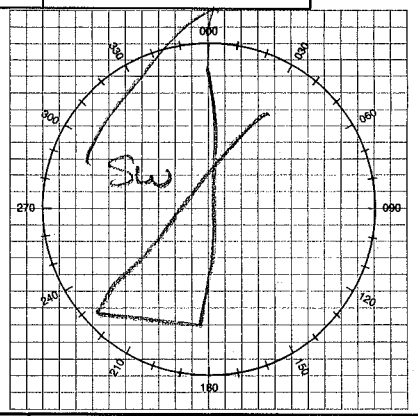
MISSION LOG

PAGE ___ OF ___

CLEARANCES

FREQ	ALT	HDG	OTHER
			D AF
291.2			KORO 1600
			120 +10
			119.9 3657
			124.77 Inn Gr 133.9





POSITION REPORT

1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION

TRANSMI
FREQUEN
ANY OF T

UHF/VO
243.0

MAYDA
THIS IS

- POSITI
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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	DIS
2216																		
2229																		
2254	△	2741.8 8409.2	2741.7 8409.3	+.1 -.1	2741.8 8409.3	0 -.1	270	4E	266	TR	273	299	169	44	14.5	292		
2318	△	2730.4 8853.0	2730.3 8853.1	+.1 -.1	2730.2 8853.2	+.2 -.2			265		271	270	175	35	10K	267		
0005	340	27	39 2	90	15.4	Less than			2	KNOTS		WINDS			989 MB			
0049	△	2628.7 9126.1	2628.4 9126.5	+.3 -.4	2627.9 9126.6	+.8 -.5			037		040	258	320	21	10K			
0113			2754.0		90 21.3			CONTR		Fix			340/15					
0151	△	2927.2 8755.9	2927.7 8755.7	-.5 +.2	2926.3 8755.9	+.9 0			075		061	258	158	56	10K	255		
0255	△	2826.7 9010.7	2828.2 9010.0		2826.3 9010.6				273		224	258	102	7	10K	257		
0307	335	28 25.6		90	37.8													
0311	335	28	19.4	090	47.9			325/16			KNOTS		CASE/SPD					
0405	△	2613.3 8950.2	2616.0 8949.3	-2.7 +.9	2613.1 8950.1	+.2 -.5			029		032	271	240	30	10K	246		
0521	△	3006.6 8836.1	3009.6 8835.3		3006.1 8837.0				260		271	282	155	37	10K	265		
0744		2803.6 8256.8	2806.7 8255.2		2801.2 8258.8													
0800																		
0812																		