



NOAA P-3 N42RF Ocean Winds 2002 Tropical Wave



Flight ID: H020916

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
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	CO2023.CON

Take off: 1555Z

Land: 2259Z

Notes:

The Radar Altimeter (RA-159) was replaced by the RA-232 during take off and landing due to spiking (155201 - 160030 Take off and 225230 - 230200 Landing).

All other instruments worked optimally during the flight; however, there were multiple times when the dewpoint temperature exceeded ambient temperature resulting in an RH >100%. These times were during heavy rain events (as noted by the Johnson-Williams Liquid Water sensor) and were likely due to a wet-bulb effect on the total temperature sensor. No corrections were made during these events.

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	1013.0 mb	1012.2 mb
Corrected Tower Pressure	1014.9 mb	1013.9 mb

Flight Director: Tom Shepherd
Phone #: (813) 828-3310 ext. 3053

Flt ID: 020916H	From: T15X	To: T15X
Flt No: 02-	Blk In: 2304	ATA: 2259
ETD: 1600Z	Blk Out: 1546	ATD: 1555
ETE: 7+00	Blk Time: 7.3	Flt Time: 7.1
Sponsor Org: NOAA/NESDIS	Program: OCEAN WINDS	Purpose: TROP WAVE

AC: TAGGART, B ✓	Sys Eng: DELGADO, J ✓
CP: TEBEEST, R ✓ / SILAH, M ✓	Data Sys: MC MILLAN, S ✓
Nav: NEWMAN, C ✓	Radar:
FE: WADE, S ✓ / Curry, J ✓	GPS/BT: PEER, B ✓
FD: SHEPHERD, T ✓	Cld Phys:
Avionics: ROGERS, M ✓	MECH: MITCHELL, R ✓

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG, P ✓	PI	NOAA/NESDIS
CARSWELL, J	Co-PI	UMASS
ESTEBAN, D ✓	SFMR/CSAT	↓
MAVOR, T ✓	OBS	NESDIS
LANDSEA, C ✓	HAPS/RADAR	NOAA/HRD

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

2264
1546

718

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

Flt ID: 020916H	Time Off: 1555	Time On: 2259
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Pressure	A/C (Take Off)	Wx Station (Take Off)	A/C (Land)	Wx Station (Land)
	1013.0	29.97	1012.2	29.94

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes	2	
Radar Tapes	1	
Cloud Physics Tapes	CD	
Video Tapes	4	
AXBT	6	
AXCP		
AXCTD		
Dropsondes	7	5 HRD / 2 NESPIS

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

Remarks

Flight ID: 020916H

Takeoff: 1555

Land: 2259

TT # 1

TD # 3

INE # 2

AZI # 2

Altimeter 159

Replace RA159 w/ RA 232

Take off 155201 - 160030 ✓

Landing 225230 - 230200 ✓

Renav (OVER)

1)	162400	0.1	0.2	17 15.2	66 39.6
	170000	0.3	0.1	17 10.0	69 14.8
	174100	-0.6	0.4	16 11.4	71 52.7
	183900	-0.7	0.1	16 10.8	73 19.0
5)	192000	-0.4	0.6	15 38.6	75 16.2
	200700	-1.7	0.6	16 23.6	72 36.4
	205200	-1.3	0.9	16 52.7	69 49.9
	212400	-0.7	0.9	16 57.0	67 43.8
	221400	-2.0	1.3	17 19.6	67 11.4
10)	230200	-3.8	1.9	17 42.0	64 47.7

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N42RF AVAPS DropSonde Log

N42RF Project: _____ Flight ID 020916H

Mission: _____ Flight #: _____ System Status: _____

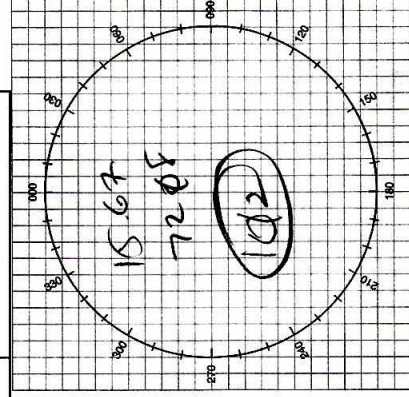
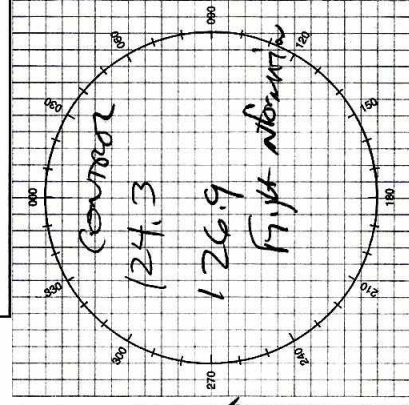
Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	GOOD ☒
1	003 148 180	1	1704	+1.2	25	MER		☒
2	003 825 243	2	1756	-1.2	30			
3	003 825 241	3	1757	-1.8	27			
4	003 825 247	4	1815	+1.1	49			
5	003 825 261	1	2125	-1.8	21			
6	003 825 022	2	2131	-1.2	50			
7	020 215 342	3	2159	+1.2	63			
8	003 825 231	4		+1.4				
9								
10								
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CLEARANCES

FREQ	ALT	HDG	OTHER
			C AF 11011
			LO SC
	SC VH		L VH SC

MISSION LOG

PAGE OF



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

- HEADING _____ TRUE/MAG _____

- AT _____ KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE -

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD
- NATURE OF EMERGENCY _____

- NATURE OF EMERGENCY
- ASSISTANCE DESIRED

- PILOT INTENTIONS

- WE HAVE _____ ENDURANCE REMAINING _____

[illegible]