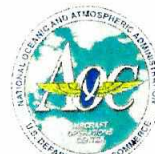




NOAA P-3 N42RF SFMR Calibration Flight



Flight ID: 060628H

Sensor or system

INE
Accelerometer
Temperature Probe
Dew Point Probe
Altitude (for vertical wind)
Static Pressure
Dynamic Pressure
Time Source
Constants File

Number or Name

2
2
1
2 (Edgetech)
Radar Altimeter 159
Rosemount Fuselage
Rosemount Fuselage 1281
Micro 99
Not Applicable
C02062.Con

Notes:

There were several time/data gaps during this flight which occurred from 124957Z-125046Z, 151200Z-151202Z, 150906Z-150909Z, and 151902Z-151912Z.

Data from radar altimeter 159 was replaced with data from radar altimeter 232 from 120108Z-120337Z. Also, Radar Altimeter 232 was inoperative from 135500Z-145609Z.

Differences between dewpoint sensor one and two exceeded 4 degrees throughout much of the flight.

There was no altitude data from Inertial 1 and 2 throughout the entire flight.

Static pressure from the wingtip and fuselage differed by 4 mb throughout much of the flight..

The King liquid water sensor (KLWC), differential attack pressure from the nose radome (PDAR), differential slip pressure from the nose radome (PDSR), dynamic pressure measured from the center port of the nose radome (PQR), total pressure measured at the nose radome (PTR), total and ambient temperature from sensor 3 (TA3,TT3), and dewpoint sensor 3 (TDM3, TD3), were all inoperative throughout the entire flight.

	Takeoff	Landing
Aircraft Static Pressure	1019.1 mb	1018.8 mb
Corrected Tower Pressure	1019.6 mb	1020.9 mb

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

8283115

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

Flt ID: 06062817	From: Kmcf	To: Kmcf
Flt. No: 06-054	Blk In: 1642 Z	Time On: 1634 Z
ETD: 1200 Z	Blk Out: 1150 Z	Time Off: 1201 Z
ETE: 4 + 30	Blk Time: 4 + 52 (4.9) Hrs	Flt Time: 4 + 33 (4.6) Hrs
Sponsoring Org: AOC	Program: SfmR Calibration	Purpose: Calibrate

AOC Flight Crew

Aircraft Commander: Choy	Data System: Mcmillan
Co-Pilot: Cirimonte	AVAPS: Defes Gabe
Navigator: Gallagher	System Eng:
Flight Eng: Kippel	A A:
Flight Director: Mayeaux	A A:
Avionics: Olney	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
Hill, J	Obs	AOC
Goldstein, A	PI	AOC
Black, P	Obs	HRD
Hergert, Randall	Obs	AOC
Hong, Chelsi	Obs	AOC
Lambert, N	Obs	AOC

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

Storm Name: WxxxA Train 42003 5000ft AXBT Free fall Soot 2 at a time

Mission ID: 20k-20 miles Center end pts of 5k-1.5k

Penetration number and time RA232 Secured at 1355Z

started tapes after rolling

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

Flight ID: 060628H		Time Off: 1201 Z		Time On: 1634 Z	
A/C - Takeoff		Wx Station - Takeoff		A/C - Land	
A/C - Land		Wx Station - Land			
Pressure	1019.1 mb	30.11 mb	1618.8 mb	3015 mb	
ATIS	Time	Observation			
Takeoff	1055 Z	17006KT 3m SCT020 27/25 A3011			
Land	1455 Z	17005KT 15m SCT030 Bkn250 29/25 A3015			
	Number	Data Disposition / Date / Quality			
Flight Level Tapes					
Radar Tapes					
Cloud Physics Tapes / CDs					
Video Tapes					
Dropsondes		Good: Bad:			
AXBT					
AXCP					
AXCTD					

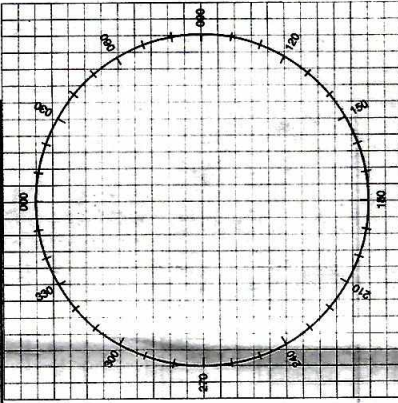
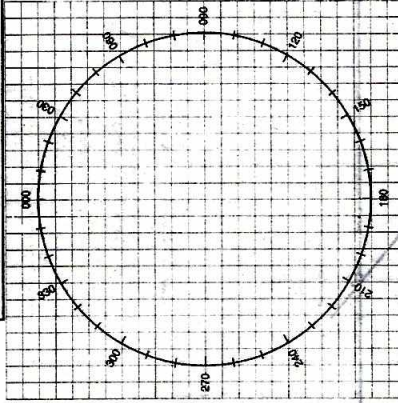
Remarks:

CLEARANCES

[illegible]

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

- NATURE OF EMERGENCY ASSISTANCE DESIRED

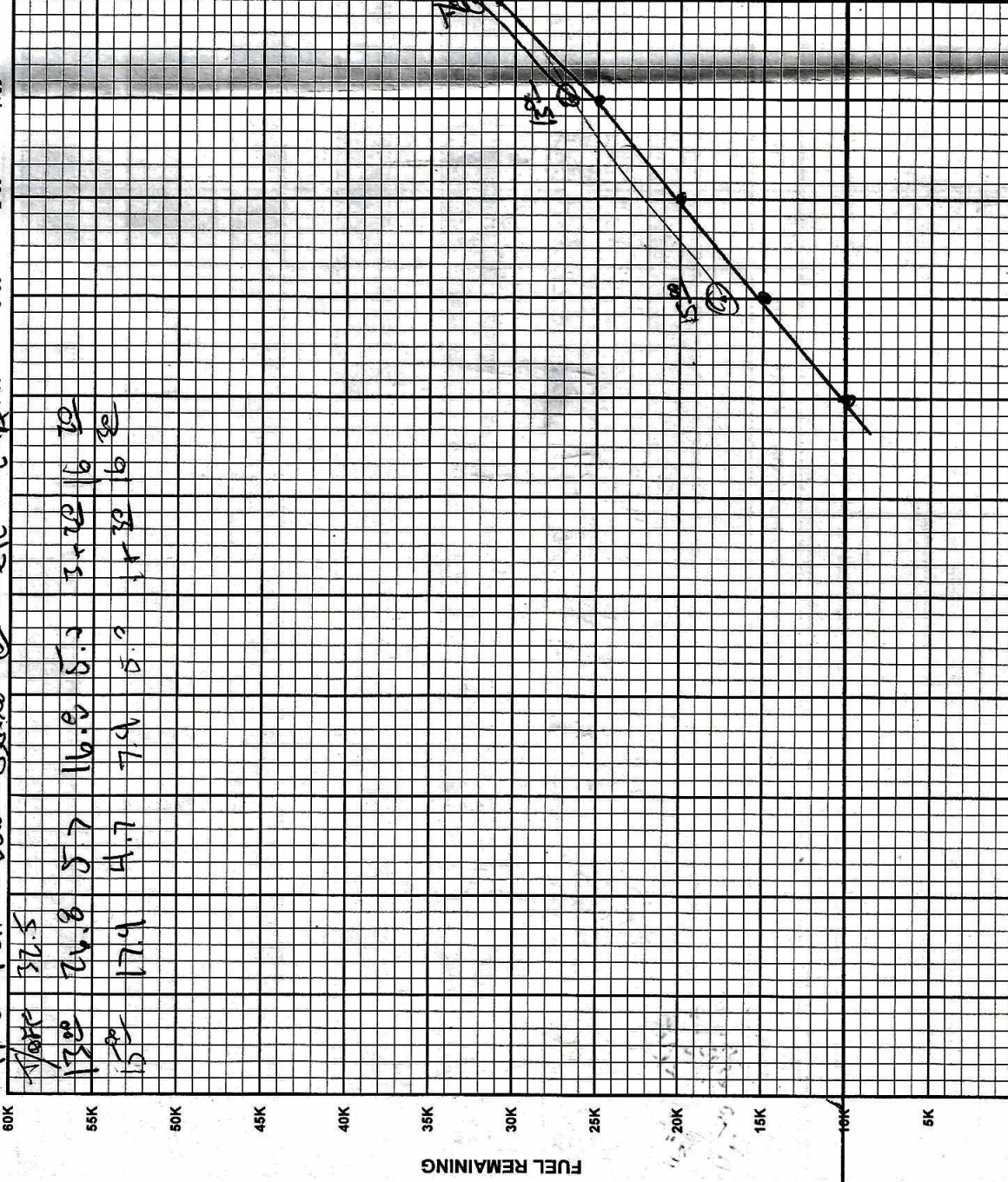
- ASSISTANCE DESIRÉE
- BUT INTENTIONS

- FLEET 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
11:30	CEST																				
11:35	CEST																				
11:40	CEST																				
12:00	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
12:05	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
12:10	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
12:15	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
12:20	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
12:25	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
12:30	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
12:35	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
12:40	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
12:45	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
12:50	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
12:55	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
13:00	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
13:05	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
13:10	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
13:15	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
13:20	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
13:25	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
13:30	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
13:35	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
13:40	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
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14:00	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
14:05	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
14:10	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
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16:25	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271	40	267	12	268	217	276	09	1000	216	200	25	402	1213	
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16:40	CEST	24-47.0 082-32.3	27-47.0 082-32.3	-	27-47.0 082-32.3	-	271														

RANGE CONTROL GRAPH

	TIME REMAINING
11:00F	9:00
11:00F	8:00
11:00F	7:00
11:00F	6:00
11:00F	5:00
11:00F	4:00



ENROUTE FUEL	4.00
ENROUTE TIME	21.0
ENROUTE FUEL (6K 5K 4SK RULE)	10.0
RESERVE AT DESTINATION	3.0
REQUIRED RAMP	36.5
ACTUAL RAMP FUEL	

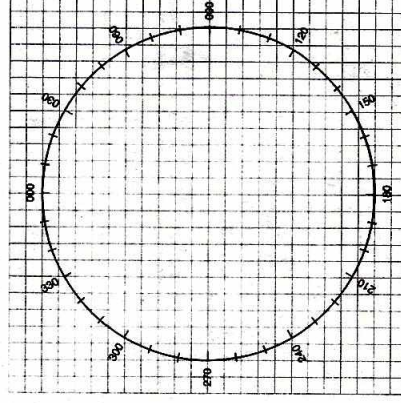
TACTICAL (OFFSTA TO DESTINATION)		
4 ENG	3 ENG	
DISTANCE (OFFSTA TO DEST)		
ENROUTE TIME (OFFSTA TO DEST)		
BURN RATE (LBS/HR)	4500	5500
ENROUTE FUEL REQUIRED		
RESERVE AT DESTINATION		
FUEL AT OFFSTA		

POINT OF SAFE RETURN		4 ENG	3 ENG
ETP DISTANCE (TO DEPARTURE)			
ENROUTE TIME (TO DEPARTURE)			
BURN RATE (LBS/HR)	4500	5500	
FUEL REQUIRED			
RESERVE AT DEPARTURE			
PSR FUEL			

CEX SIGHT	
GMT	
GHA	
CORR	
GHA	
LONG ^W	
-E	
EXACT LHA	
LAT	
BODY	
DEC	
HC/D	
CORR	
HC	
Z	
ZN	

CEX - TRUE BEARING METHOD			
COMPASS TYPE	INS1	INS2	WET
MCH (READING)			
- MITH (SEXTANT)			
CE			
-VAR			
DEV			

C6X - ERB METHOD				
COMPASS TYPE	INS1	INS2	WET	
MERB (DIAL 000)				
+ ZN				
= MTH				
MCH (READING)				
GE				
VAR				
= DEV				



WIND FACTOR		
WINDSPEED	HEADWIND	TAILWIND
10	1.03	.97
20	1.06	.94
30	1.10	.92
40	1.14	.89
50	1.18	.87
60	1.22	.85

DISTANCE REMAINING

ETP = .5(TOTAL DISTANCE x OUTBOUND WIND FACTOR)

PRESS ALT	F-FACTOR				
	200	250	300	350	
10,000	1.0	1.0	.99	.99	
20,000	.99	.98	.97	.97	
30,000	.97	.96	.95	.94	
40,000	.96	.94	.92	.90	

[illegible]

NOAA · AOC · SED
N42RF AVAPS DROP LOG

Project: SFMR TEST

Mission : _____

Flight ID : 060628 h

Take Off :

Landing :

Flt Dir :

Launcher S/N:

[illegible]

N42RF AXBT DropSonde Log

N42RF Project: SFMR TEST Flight ID: 060628h

Session: _____ Flight #: 01 System Status: OK

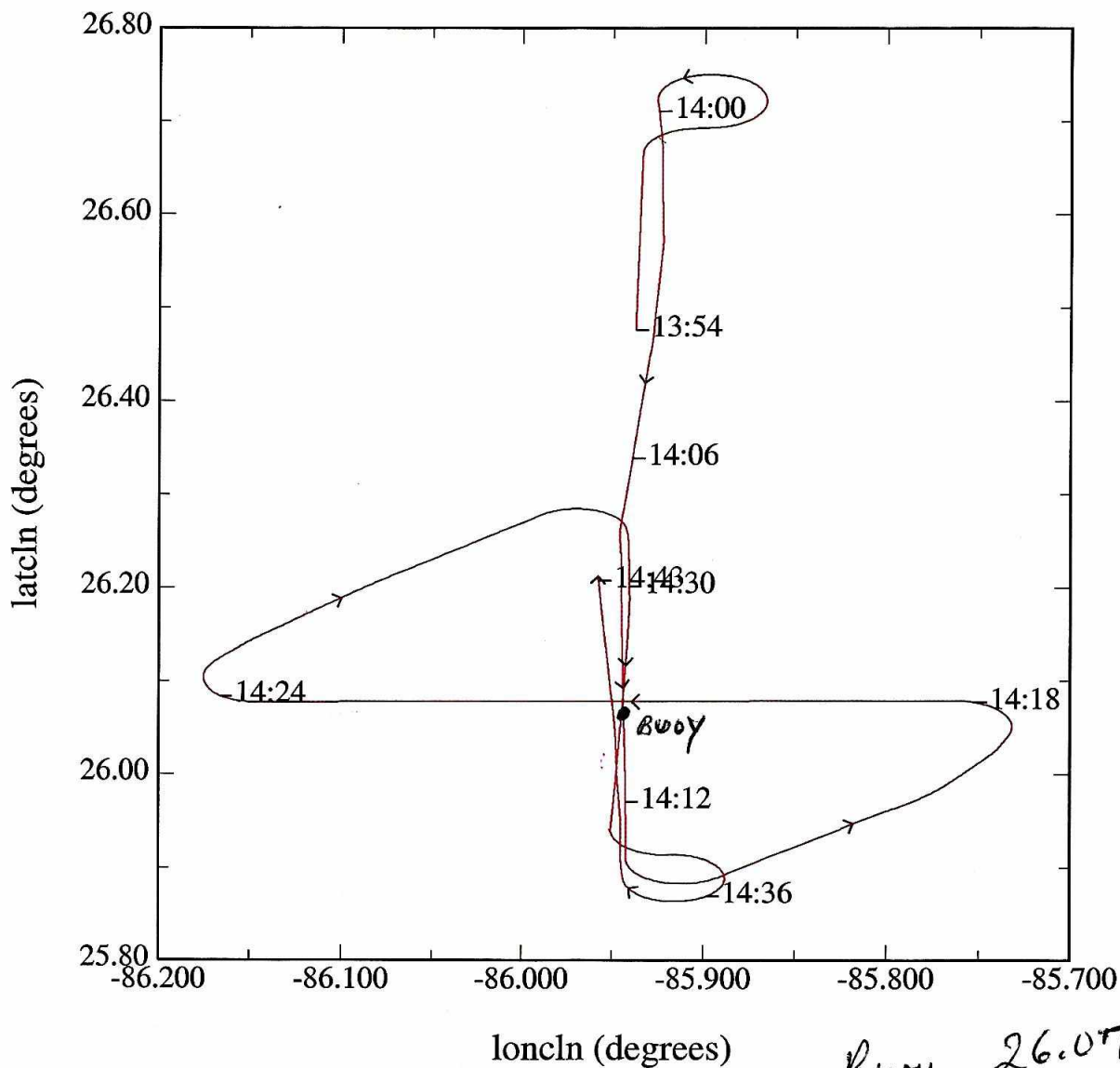
[illegible]

STM

SFMR Cal FLT N42RF

06/28/2006 UTC, 13:54:15-14:43:00

466m $\approx$ 1530 ft
 382m $\approx$ 1253 ft
 309m $\approx$ 1015 ft



Buoy 26.07
 85.94

	mean	sigma	min	max
latcln (degrees), 1 s/sec	26.20	0.25	25.86	26.75
loncln (degrees), 1 s/sec	-85.94	0.08	-86.18	-85.73