

U.S. Dept. of Commerce / NOAA Aircraft Operations Center		
Flt ID: 1006114	From: KMCK	To: KMCK
Flt No: 10-038	Blk In:	ATA: 2123
ETD:	Blk Out:	ATD: 1258
ETE:	Blk Time:	Flt Time:
Sponsor Org: DEEPWATER	Program: DEEPWATER	Purpose: DEEPWATER

AOC Personnel	
AC: SWEENEY	Sys Eng: QUILES
CP: HALVERSON / MARTIN	Data Sys: BOSKO
Nav: BRAKOB	Radar:
FE: BAST	GPS/BT: PAUL
FD: SEARS / PARRISH	Cid Phys: PEEK
Avionics: RICHARDS	

Participating Scientists / Visitors / AOC		
Name (Last, First)	Activity on Aircraft	Affiliation
SIM JONES	MEDIA	BRADENTON HER
MEYERS?	SCI	UM
SIHAY, N	SCI (PI)	UM

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

Processing required?: Yes

U.S. DOC / NMAO / NOAA / AOC

HD?:

hurricane penetrations

Flight ID: 10 0611 H

From:

KMCF

To:

KMCF

0

Flight No:

In HH MM

21 34

On_Hour

21 23

Task Codes

ETD:

Out HH MM

12 49

Off_Hour

12 58

ETE:

Block
time:

8.0
8.8

Flight Time

8.4

Sponsor

Program:

Purpose:

783
58
25
14
49
45

AOC FLIGHT CREW

Aircraft Commander: SWEENEY

Co-Pilot: HALVORSON

MARTIN

Navigator: BLAKOB

FE: BAST

FD: Sears Ian

PARRISH

Avionics: ~~BOSTO~~ PEEK

Data System: BOSTO

AVAPS: PAUL

System Engineer: QUILLES

AA 1: RICHARDS

AA 2:

Crew Chief:

Other AOC:

Participating Scientist / Visitor

guests

Jim Jones
SHAY
MEYERS

activity:

PRESS

affiliation 1:

BRADENTON HAROLD

Remarks

Mission ID:

Storm Name:



U.S. DOC / NMAO / NOAA / AOC

Flight ID: 10

On_Hour: Off_Hour:

A/C Takeoff press:

WX Station takeoff press:

A/C Land press:

WX Station Land Pres

Pressure

Data Source

Number

Data Disposition / Quality

Flight level
tapes:

Radar tapes:

cloud physics
tapes/cds:

video tapes:

Expendables

Charge To

good

bad

total

Sent
Messages

Remarks

15 CP's

53 BT's

7 ~~0~~ Sonds

6 good Sonds



N42RF ERROR SUMMARY

Deep Water Horizon 2010



Flight ID: 100611H

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	INE1
Accelerometer	ACC1
Temperature Probe	TT1
Dew Point Probe	TDM2 (EDGETECH)
Static Pressure	PSF
Dynamic Pressure	PQF1
Vert. Wind	ALTI1
Constants File	n42_hur10v1.adc
Project Directory	/acdata/2010/MET/100611H

Notes:

There were data gaps from 150807Z – 150814Z, 162502Z – 162506Z, 163315Z – 163317Z, 164232Z – 164257Z, 180157Z – 180253, 190755Z – 190805Z, 191000Z – 191004Z, 193256 – 193302Z, 200418Z – 200423Z, 204903Z – 204913Z, 205544Z – 205549Z, 214817Z – 214822Z, 225518Z – 225523Z, and 231154Z – 231157Z. Some parameters at the point data resumed needed correcting at 190806Z and 204914Z. The parameters ALTI1, GSUI1, LATI1, LONI1, HDGI1 were modified substituting values. The substitution equations follow:

For 190806Z:

$$ALTI1X = ALT2 - 5.8$$

$$GSUI1X = GSUI2 - 1$$

$$LATI1X = LATNVL$$

$$LONI1X = LONNVL$$

$$HDGI1X = HDGI2 + 0.8$$

For 204914Z:

ALTI1X = ALT2 + 15

GSUI1X = GSUI2 + 0.9

LATI1X=LATNVL

LONI1X=LONNVL

There were 8 total dropsondes deployed.

There were 28 total AXBTs deployed.

There were 27 total AXCPs deployed

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

SPECIAL NOTE!!! The variable names dpj_wgs, dpj_was, and dpj_wz in the netCDF file represent vertical ground, vertical air, 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.

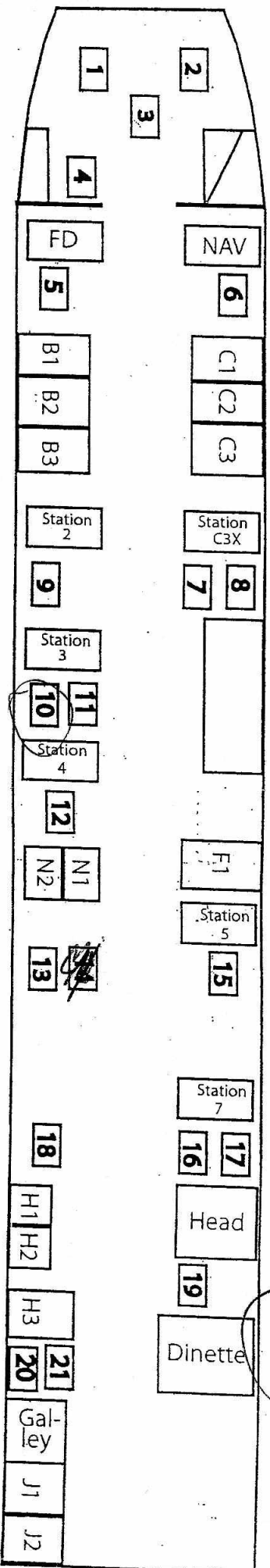
	Takeoff	Landing
	1456Z	2346Z
Aircraft Static Pressure	1015.5mb	1012.2mb
Corrected Tower Pressure	1016.0mb	1012.8mb

Flight Director: Jack Parrish/ Ian Sears (813) 828-3310 ext. 3077/3039

NOAA AIRCRAFT OPERATIONS CENTER

Flight ID 100611H

14



1. SUDENY PILOT
2. HARRISON COPILOT
3. BAST FLIGHT ENGINEER
4. SONES STATION 1
5. SEARS FLIGHT DIRECTOR
6. STAYNOR NAVIGATOR
7. MARLIN STATION C3X
8. ~~PAUL~~ STATION C3X
9. MEYERS STATION 2
10. PARRISH STATION 3
11. SONES STATION 3
12. ROSKO STATION 4
13. SHAY PROJECT SEAT
14. ~~PAUL~~ STATION 5
15. PAUL STATION 5
16. RICHARDS STATION 7
17. Q VICES STATION 7
18. PEEK STATION 8
19. PEEK DINETTE
20. PEEK GALLEY
21. PEEK GALLEY

AXBT/AXCP Contract Number
Landing Time

Takeoff Time

Storm

[illegible]

Playback Log

Flight Number

10061111

AXBT/AXCP Contract Number

Takeoff Time

Landing Time

Storm

Groundhog Day

Probe Seq. Number	AXCP AXBT AXCTD	Channel Number	Serial Number	Actual Drop Time	Actual Lat Deg Min	Actual Long Deg Min	SST	MLD	H20	H26	Comments
1	BT	12		1404							
2	CP/5000	12	09051024	1411							
3	BT	16		1418							
4	BT/CP	12/14	09051029	1426							
5	BT	12		1433							
6	BT/CP	12/16	09051012	1441							
7	BT	12		1449							
8	BT	12		1451							
9	BT	12		1503							
10	BT	12		1511							
11	CP	12	09051015	1517							
12	BT	16		1526							
13	BT/CP	12/14	09051024	1534							
14	BT	12		1542							
15	BT/CP	12/16	09051014	1550							
16	BT	12		1558							
17	CP	12	09051054	1608							
18	BT	16		1615							
19	BT	12		1620							
20	BT	12		1626							
21	BT/CP	12/14	09051024	1633							
22	BT	12		1641							
23	BT/CP	12/16	09051009	1649							
24	BT	12		16530							
25	BT/CP	12/14	09051036	1704							

Playback Log

Flight Number

1000114

AXBT/AXCP Contract Number

Takeoff Time

Landing Time

Storm

Groundhog Day

Probe Seq. Number	AXCP AXBT AXCTD	Channel Number	Serial Number	Actual Drop Time	Actual Lat. Deg Min	Actual Long Deg Min	SST	MLD	H20	H26	Comments
26	BT	12		1712							
27	BT/CP	12/16	09041016	1720							
28	BT	12		1728							
29	BT	12		1734							
30	BT	12		1742							
31	BT	12		1748							
32	BT/CP	12/14	08091033	1755							
33	BT	12		1803							
34	BT/CP	12/16	09041025	1810							
35	BT	12		1818							
36	BT/CP	12/14	08091040	1826							
37	BT	12		1834							
38	BT	12		1841							
39	BT			1852							
40	BT			1858							
41	BT			1905							
42	BT			1911							
43	BT/CP / sende			1919							
44	BT			1927							
45	BT			1933							
46	BT			1940							
47	BT			1947							
48	BT			1953							
49	BT			1958							
50	BT			2005							

Flight Number	100611A	AXBT/AXCP Contract Number
Takeoff Time		Landing Time

Takeoff Time

Storm

[illegible]

Project : Hurricane '08

Mission: Deonanda-Horn Flight ID: 1006114

Take Off: _____ Landing: _____ Flt Dir: 150015 Launcher S/N: _____

[illegible]

INTERNAL AXBT LOAD/LAUNCH RECORD

Date: 6/11/10

Type	CH#	Drop#	Launch time	Good
BT	12	1	1404	✓
CP	12	2	1410	
BT	16	3	1418	✓
BT	12	4	1426	✓
CP	14	5	1426	
BT	12	6	1433	✓
BT	12	7	1441	✓
CP	16	8	1441	X
BT	12	9	1449	✓
BT	12	10	1456	✓
BT	12	11	1503	X
BT	12	12	1511	✓
CP	12	13	1517	
BT	16	14	1526	X
BT	12	15	1534	✓
CP	14	16	1534	
BT	12	17	1542	✓
BT	12	18	1550	✓
CP	16	19	1550	
BT	12	20	1558	✓
CP	12	21	1608	
BT	16	22	1615	✓
BT	12	23	1620	✓
BT	12	24	1626	✓
BT	12	25	1632	✓
CP	14	26	1632	✓
BT	12	27	1641	✓
BT	12	28	1649	✓
CP	16	29	1649	✓
BT	12	30	1656	✓
BT	12	31	1704	✓
CP	14	32	1704	✓
BT	12	33	1712	✓
BT	12	34	1720	✓
CP	16	35	1720	-
BT	12	36	1727	✓
BT	12	37	1734	✓
BT	12	38	1744	✓
BT	12	39	1748	✓
BT	12	40	1755	✓
CP	14	41	1755	✓

Mission: Deepwater Horizon

[illegible]

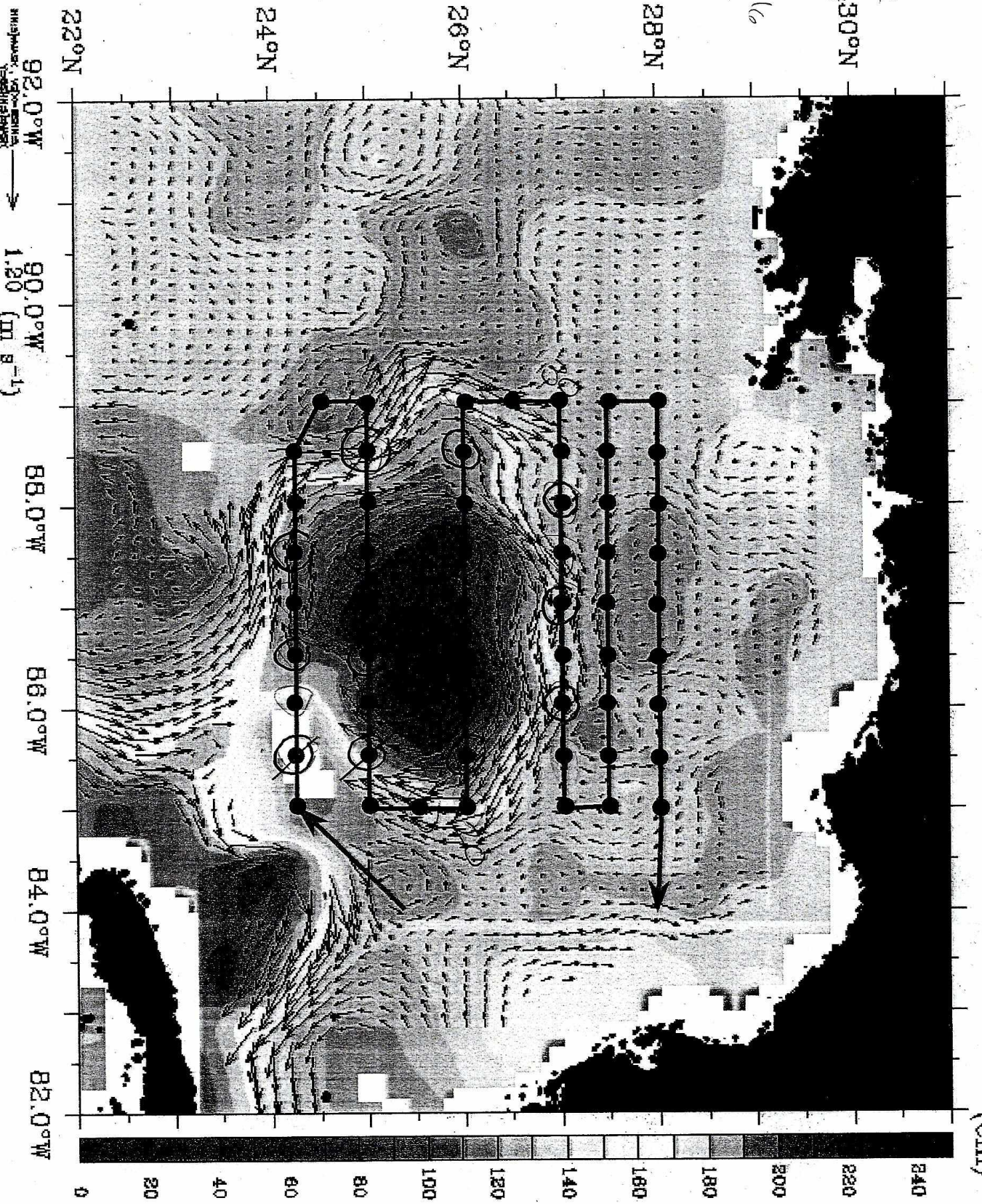
Geostrophic Velocity with Dynamic SSH: 06/08/2010

ssh
(cm)

3-12

6-14 30°N

6-16



Playback Log

Flight Number 1006111 AXBT/AXCP Contract Number _____

Takeoff Time _____ Landing Time _____

Storm Groundhog Day

Probe Seq. Number	AXCP AXBT AXCTD	Channel Number	Serial Number	Actual Drop Time	Actual Lat Deg Min	Actual Long Deg Min	SST	MLD	H20	H26	Comments
1	BT	12									
2	CP	12	09021044								
3	BT	16									
4	BT/CP	12/14	09051029								
5	BT	12									
6	BT/CP	12/16	09051012								
7	BT	12									
8	BT	12									
9	BT	12									
10	BT	12									
11	CP	12	090105								
12	BT	16									
13	BT/CP	12/14	09051034								
14	BT	12									
15	BT/CP	12/16	09041014								
16	BT	12									
17	CP	12	09051034								
18	BT	16									
19	BT	12									
20	BT	12									
21	BT/CP	12/14	09091034								
22	BT	12									
23	BT/CP	12/16	09051009								
24	BT	12									
25	BT/CP	12/14	09051036								

Playback Log

Flight Number

1006114

AXBT/AXCP Contract Number

Takeoff Time

Landing Time

Sto

Groundhog Day

[illegible]

Playback Log

Flight Number

Takeoff Time

Storm

100 Coll H

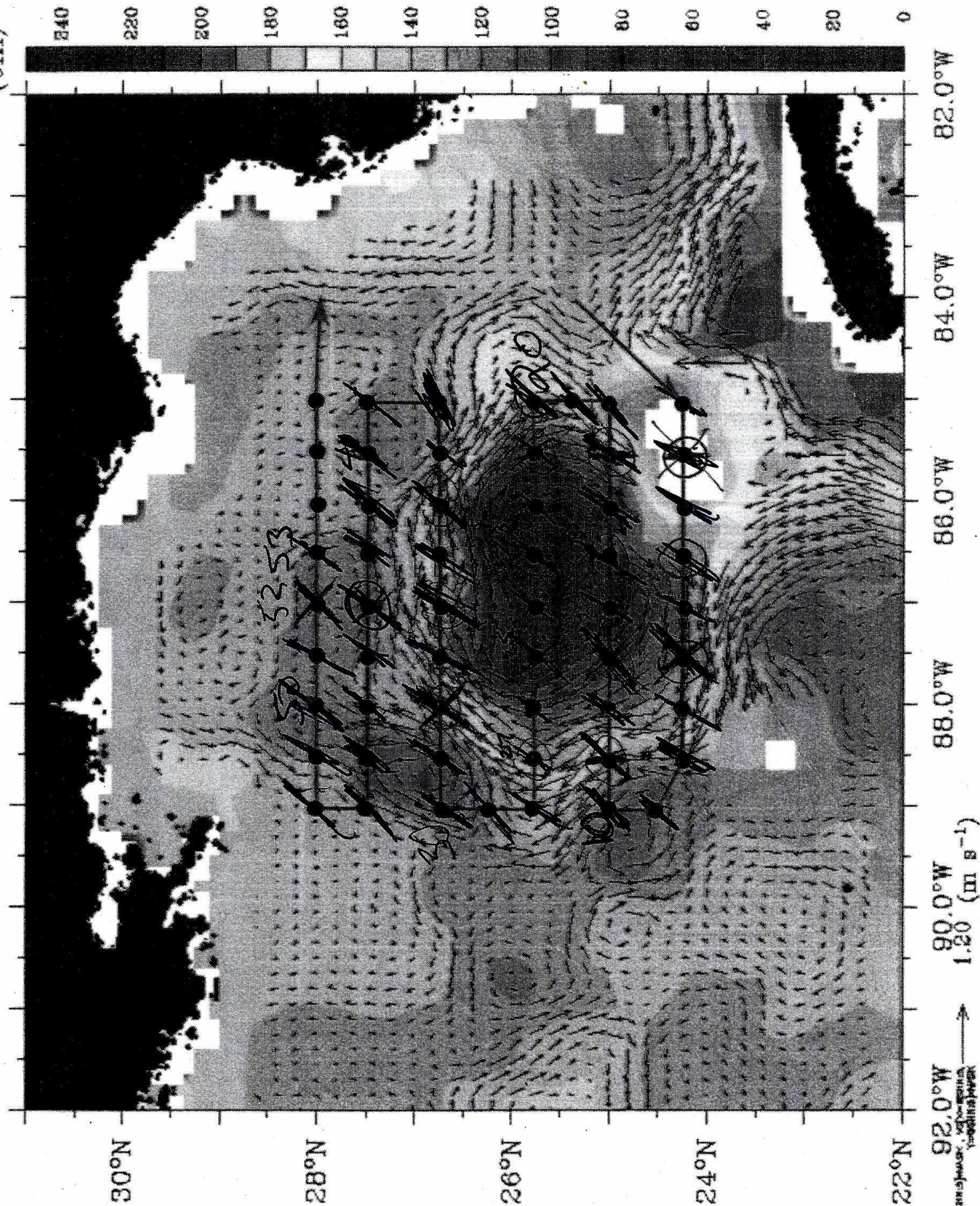
AXBT/AXCP Contract Number

Landing Time

Groundhog Day

[illegible]

ssh
(cm)



CLEARANCES

FREQ	ALT	HDG	OTHER
1530	1000	135	Z
1531	1000	135	Z
1532	1000	135	Z
1533	1000	135	Z
1534	1000	135	Z
1535	1000	135	Z
1536	1000	135	Z
1537	1000	135	Z
1538	1000	135	Z
1539	1000	135	Z
1540	1000	135	Z
1541	1000	135	Z
1542	1000	135	Z
1543	1000	135	Z
1544	1000	135	Z
1545	1000	135	Z
1546	1000	135	Z
1547	1000	135	Z
1548	1000	135	Z
1549	1000	135	Z
1550	1000	135	Z

MISSION LOG **PAGE** 1 **OF** 1

POSITION REPORT

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:

2. TIME

MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA, NOAA, NOAA

42 NOAA

[illegible][illegible]

1247	Er 6	N	23						
1248	TW 1	N	23						

1301	✓	17-419 0.772	0	22-419 0.772	220	238	295	15	5K	229	✓	mes 2nd 11
1301	✓	17-419 0.772	0	22-419 0.772	220	238	295	15	5K	229	✓	mes 2nd 11

[illegible][illegible][illegible][illegible]

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

[illegible]

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