Cruise report Subtropical Cells 1

1 Cruise narrative

1.1 Highlights

1.1.1 Expedition

R/V Oceanus 365-4

1.1.2 Chief scientist

Claudia Schmid

1.1.3 Ship

R/V Oceanus

1.1.4 Crew

Lawrence T. Bearse
Courtenay Barber
Michael J. Conda
Jeffrey M. Stolp
Darrell Hanna
Leonidas Byckovas
Colin Walcott

Chief mate
2nd mate
Boatswain
AB
Cos

Partick S. Mone Chief engineer
Nelson V. Botsford Jr. engineer
Marcel Vieira Jr. engineer
Christopher Moody Steward
Brett Bluestein MA

1.1.5 Ports of call

Fortaleza, Brazil Bridgetown, Barbados

1.1.6 Cruise dates

5 March - 25 March 2001

1.2 Principal Investigators

Robert Molinari AOML molinari@aoml.noaa.gov Claudia Schmid CIMAS/ AOML schmid@aoml.noaa.gov

1.3 Cruise participants

Steven Eykelhoff networking WHOI
Marlos Goes CTD Inst. Sao Paulo

Robert Roddy CTD, oxygen AOML roddy@aoml.noaa.gov

Kathleen Schact autosal Univ. Wash.

Claudia Schmid Chief scientist AOML/ CIMAS schmid@aoml.noaa.gov
Derrick Snowden ADCP, CTD AOML snowden@aoml.noaa.gov
John Steger ADCP, CTD AOML thomas@aoml.noaa.gov

1.4 Abbreviations and addresses

AOML National Oceanic and Atmospheric Administration Atlantic Oceanographic and Meteorological Laboratory 4301 Rickenbacker Cswy, Miami 33149, FL, USA

CIMAS Cooperative Institute of Marine and Atmospheric Science 4600 Rickenbacker Cswy, Miami 33149, FL, USA

WHOI Woods Hole Oceanographic Institution Woods Hole, MA, USA

1.5 Primary objective

Studying the subtropical cells and the spreading of the Subtropical Underwater.

1.6 Scientific program and methods

1.6.1 Cruise track

Fig. 1

1.6.2 CTD/LADCP and water sampling

Data form 98 CTD/LADCP/rosette stations are available (Table 1, Fig. 1, station 8 was counted but not done). All stations include LADCP. Water samples for salinity and oxygen were taken throughout the upper 1500m.

1.6.3 XBT's deployed

57 XBT with the Mark 12 system (Table 2, Fig. 1).

1.6.4 PALACE floats and drifters deployed

5 PALACE (Table 3, Fig. 1) 6 drifters (Table 4, Fig. 1)

1.6.5 Underway measurements

Underway measurements included thermosalinograph (TSG) data and the various variables of the Oceanus' IMET system (surface temperature, conductivity, oxygen, meteorological parameters, GPS, ship speed, heading and bathymetry).

1.7 Problems with scientific equipment

CTD:

The primary conductivity and oxygen sensors failed during the up-cast of station 2. The symptoms were very spiky salinity and oxygen data and the pump indicator showed 10 (which means that the primary pump is off). This seemed to indicate that the pump is the problem. During station 3 the primary conductivity and oxygen sensors failed as expected. The secondary conductivity was OK. Unfortunately the secondary oxygen sensor failed as well. The replacement of the primary conductivity sensor between stations 3 and 4 solved the problems with the secondary oxygen sensor.

Throughout the 35°W section the primary oxygen sensor did not work properly. The oxygen current was reasonable but the oxygen temperature was wrong. A replacement with a backup sensor after CTD station 38 did not solve this problem. In fact the older replacement oxygen sensor did not work at all. The last cast was used as a test of the digitizer in the CTD. The primary oxygen sensor was plugged into a different A/D channel. This did not improve the data in any way. A final test for the digitizer was done on deck. The deck unit was turned on to test two different configurations: (1) The good secondary oxygen sensor was plugged into the A/D channel for the secondary sensor. (2) The primary and the secondary oxygen sensors were plugged into their original A/D channels. Result: The values for both oxygen sensors were independent of the A/D channel. The primary oxygen sensor had the word display "0 0", and the secondary sensor had a varying word display (order of magnitude "2000 200") in both configurations.

Conclusion: Both oxygen sensors used as primaries are bad (serial # 130433 and 230297). The secondary oxygen sensor is good (serial #230531). The digitizer is working correctly.

The tripping of the Niskin bottles proved to be unreliable (stations 5-7). While checking the connections at the CTD between stations 7 and 8 unit a pin broke of off the plug to the rosette. The pin was corroded through. It was decided to skip two stations of the high-density section (station 8 was already numbered, but no cast was done). The repairs took about two hours. Afterwards the tripping of the bottles was much more reliable. Towards the end of the cruise the tripping of the bottles started to get more random.

ADCP:

The shipboard 300 kHz ADCP was not working until 8 March in the evening. The software problem could finally be solved with the help of a technician at WHOI.

1.8 Other incidents of note

Condensation in the radar lead to delay of departure by seven hours until 16:00 pm on 6 March.

2 Description of measurement techniques

2.1 CTD/LADCP/rosette

A CTD with two sensors for temperature, conductivity and oxygen was used. Ten Niskin bottles were available. Water samples for oxygen and salinity were taken after each cast. These samples were analyzed on board and the resulting data will be used for the insitu calibration of the conductivity and oxygen sensors.

The LADCP is a RDI Broadband 150 kHz ADCP.

2.2 XBT

The Mark 12 system was used to achieve a higher resolution of the temperature field.

2.3 Vessel-mounted ADCP

The data from two vessel-mounted ADCPs were recorded throughout the survey. The used instruments are a RDI Broadband Ocean Surveyor 300 kHz ADCP and a RDI Narrowband 150 kHz ADCP. Combining the data from the two ADCPs will result in velocity profiles over the upper nearly 400 m with a higher resolution in the upper 100m.

2.4 PALACE float deployments

The five PALACE floats were deployed after passing a self-test. They launch positions were chosen to best supplement the existing array of profiling floats.

2.5 Drifter deployments

The six surface drifters were deployed into gaps of the global drifter array.

2.6 Underway measurements

Underway measurements included thermosalinograph (TSG) data and the various variables of the Oceanus's IMET system (surface temperature, conductivity, oxygen, meteorological parameters, GPS, ship speed, heading and bathymetry).

3 Preliminary analysis

Preliminary data products generated on the R/V Oceanus are presented. The hydrographic sections show the major water masses (Figs. 2, 3, 5-7, 9-11, 13-15, 17) and the flow field from the ADCPs (Figs. 4, 5, 8, 9, 12, 13, 16, 17).

The water masses in the upper 1500 m of the tropical Atlantic are the Tropical Surface Water (TSW), the Subtropical Underwater (STUW), the Central Water (CW), and the Antarctic Intermediate Water (AAIW). One major goal of this cruise is to improve the understanding of the spreading of the STUW. This water is characterized by a salinity maximum in the upper 150m of the water column. The maximum is strongest near the equator (Fig. 18). It is weakening towards the north before it strengthens again. Between about 2°N and 5°N the salinity maximum shows only small changes of its strength. The sections at the four longitudes indicate an increase of the salinity in the STUW near the equator. The maximum salinity north of 5°N does not change as much as the maximum salinity near the equator between 35°W and 41°W. From 41°W to 44°W this maximum strengthens as much as the maximum south of 3°N.

Between 500 and 1000 m the AAIW is found. It is characterized by a low salinity, which increases slightly towards the north (Figs. 2, 6, 10, 14). Salinity values below 34.6 reach north beyond 6°W at all longitudes except 44°W. At 44°W the 34.6 isohaline terminates at 6°N.

The strongest oxygen signal is the broad minimum centered near 500m at the upper boundary of the AAIW (Figs. 3, 7, 11, 15). The lowest values are observed near the northern end of the section. The oxygen concentration in this minimum layer increases from east to west.

The temperature sections at 38°W and 44°W show a deepening of the 13°C to 5°C isotherms and a shoaling of the thermocline at 3°N and 4°N, respectively (Figs. 6 and 14). Similar patterns are also found in other sections: Between 38°W and 35°W (Fig. 5). At 41°W (Fig. 10). Between 38°W to 41°W (Fig. 9).

The ADCP and LADCP sections show the alternating zonal currents characteristic for the tropical Atlantic (Fig. 4, 5, 8, 9, 12, 13, 16). The velocity maximum of the Equatorial Undercurrent (EUC) coincides with the salinity maximum of the STUW. This highest salinity STUW is flowing east (Fig. 18). The STUW with the lowest salinity and also the more saline STUW to the North are flowing west in the northern branch of the South equatorial current.

4 Acknowledgements

We want to thank the officers and crew of the R/V Oceanus as well as the personnel at WHOI. Their expertise and high motivation were important for the successful completion of our work program. The excellent work of the WHOI technician, the AOML personnel and the Brazilian scientist made it possible to obtain a high quality data set. The help and instructions from employees in Miami before and during the cruise are much appreciated. The cruise was sponsored by AOML.

5 Appendix

Table 1: CTD stations

Station	Date	Time(UTC)	Latitude	Longitude	Max Pres.	Comment
1	6-Mar-2001	16:43	1.2133°S	35.9648°W	100	test
2	7-Mar-2001	00:34	0.6667°S	34.9988°W	1500	No primary
			0.000.	00000		cond. (up-cast)
3	7-Mar-2001	03:35	0.4990°S	34.9977°W	1500	No primary
						cond.
4	7-Mar-2001	06:33	0.3333°S	35.0000°W	1500	
5	7-Mar-2001	09:01	0.1658°S	35.0002°W	1500	
6	7-Mar-2001	11:33	0.0002°S	35.0005°W	1500	
7	7-Mar-2001	14:16	0.1687°N	34.9992°W	1500	
9	7-Mar-2001	18:33	0.6637°N	35.0020°W	1500	
10	7-Mar-2001	21:14	0.8338°N	34.9997°W	1500	
11	7-Mar-2001	23:20	0.9817°N	34.9978°W	1500	
12	8-Mar-2001	01:43	1.1665°N	34.9997°W	1500	
13	8-Mar-2001	04:03	1.3322°N	34.9997°W	1500	
14	8-Mar-2001	06:30	1.4995°N	34.9998°W	1500	
15	8-Mar-2001	08:45	1.6663°N	35.0005°W	1500	
16	8-Mar-2001	10:57	1.8315°N	35.0000°W	1500	
17	8-Mar-2001	13:19	1.9985°N	35.0003°W	1500	
18	8-Mar-2001	15:44	2.1657°N	35.0000°W	1500	
19	8-Mar-2001	18:03	2.3330°N	35.0000°W	1500	
20	8-Mar-2001	20:30	2.4997°N	35.0003°W	1500	
21	8-Mar-2001	22:39	2.6668°N	35.0002°W	1500	
22	9-Mar-2001	00:53	2.8333°N	35.0012°W	1500	
23	9-Mar-2001	03:04	2.9990°N	35.0002°W	1500	
24	9-Mar-2001	05:15	3.1655°N	35.0002°W	1500	
25	9-Mar-2001	07:24	3.3315°N	35.0000°W	1500	
26	9-Mar-2001	09:32	3.5003°N	34.9992°W	1500	
27	9-Mar-2001	11:59	3.6743°N	35.0092°W	1500	
28	9-Mar-2001	14:23	3.8318°N	35.0000°W	1500	
29	9-Mar-2001	16:32	3.9980°N	35.0012°W	1500	
30	9-Mar-2001	19:37	4.3275°N	34.9990°W	1500	
31	9-Mar-2001	22:49	4.6670°N	35.0000°W	1500	
32	10-Mar-2001	01:58	4.9955°N	35.0000°W	1500	
33	10-Mar-2001	05:05	5.3335°N	34.9997°W	1500	
34	10-Mar-2001	08:13	5.6660°N	34.9998°W	1500	
35	10-Mar-2001	11:31	5.9998°N	35.0000°W	1500	
36	10-Mar-2001	14:59	6.3323°N	34.9998°W	1500	
37	10-Mar-2001	18:10	6.6657°N	34.9998°W	1500	
38	10-Mar-2001	21:32	6.9997°N	34.9997°W	1500	
39	12-Mar-2001	13:48	0.0000°N	37.9987°W	1500	
40	12-Mar-2001	16:08	0.1652°N	38.0000°W	1500	
41	12-Mar-2001	18:27	0.3277°N	38.0003°W	1500	
42	12-Mar-2001	20:54	0.4992°N	37.9995°W	1500	
43	12-Mar-2001	23:10	0.6648°N	37.9997°W	1500	
44	13-Mar-2001	01:23	0.8315°N	38.0000°W	1500	
45	13-Mar-2001	03:37	0.9993°N	37.9993°W	1500	
46	13-Mar-2001	05:52	1.1660°N	37.9985°W	1500	

47 13-Mar-2001 08:25 1.3318°N 37.9997°W 1500 48 13-Mar-2001 10:41 1.4992°N 37.9998°W 1500 50 13-Mar-2001 14:51 1.8317°N 37.9998°W 1500 51 13-Mar-2001 14:51 1.8317°N 37.9998°W 1500 52 13-Mar-2001 19:19 2.1652°N 38.0003°W 1500 53 13-Mar-2001 21:32 2.322°N 38.0003°W 1500 54 13-Mar-2001 22:55 2.499°N 38.0003°W 1500 55 14-Mar-2001 02:02 2.6662°N 38.0003°W 1500 55 14-Mar-2001 02:02 2.6662°N 38.0003°W 1500 56 14-Mar-2001 06:30 2.9993°N 37.9998°W 1500 57 14-Mar-2001 06:30 3.320°N 37.9998°W 1500 58 14-Mar-2001 10:59 3.320°N 37.9998°W 1500 59 14-Mar-2001 10:59 3.320°N 37.9998°W 1500 60 14-Mar-2001 10:59 3.320°N 37.9998°W 1500 61 14-Mar-2001 17:37 3.8305°N 38.0007°W 1500 62 14-Mar-2001 17:37 3.8305°N 38.0000°W 1500 63 14-Mar-2001 19:56 3.9990°N 38.0000°W 1500 64 14-Mar-2001 10:59 3.320°N 37.9998°W 1500 65 15-Mar-2001 05:32 4.9998°N 37.9998°W 1500 66 15-Mar-2001 05:32 4.9998°N 37.9998°W 1500 67 15-Mar-2001 05:32 4.9998°N 37.9998°W 1500 68 15-Mar-2001 05:32 4.9998°N 37.9998°W 1500 69 15-Mar-2001 05:32 4.9998°N 37.9998°W 1500 60 16-Mar-2001 10:59 5.3322°N 37.9998°W 1500 61 14-Mar-2001 10:59 6.336°N 38.0000°W 1500 63 14-Mar-2001 10:59 6.336°N 38.0000°W 1500 64 16-Mar-2001 10:59 6.332°N 37.9999°W 1500 65 15-Mar-2001 05:32 4.9999°N 37.9997°W 1500 66 15-Mar-2001 05:32 4.9999°N 37.9997°W 1500 67 15-Mar-2001 14:55 5.9947°N 37.9997°W 1500 68 15-Mar-2001 14:55 5.9947°N 37.9997°W 1500 70 15-Mar-2001 14:26 6.332°N 38.0000°W 1500 71 16-Mar-2001 14:26 5.992°N 41.0003°W 1500 72 17-Mar-2001 14:19 3.6653°N 40.9997°W 1500 73 17-Mar-2001 15:00 2.6635°N 40.9997°W 1500 74 17-Mar-2001 15:00 2.6635°N 40.9997°W 1500 86 18-Mar-2001 15:00 2.6635°N 40.9997°W 1500 87 17-Mar-2001 15:00 3.3666°N 40.9997°W 1500 88 19-Mar-2001 15:00 3.322°N 40.9999°W 1500 98 20-Mar-2001 15:03 3.6666°N 43.9998°W 1500 99 20-Mar-2001 15:03 3.9998°N 43.9998°W 1500 99 20-Mar-2001 15:53 3.6666°N 43.9998°W 1500 99 20-Mar-2001 15:53 3.6666°N 43.9998°W 1500 99 21-Mar-2001 15:57 6.3327°N 43.9998°W 1500 99 21-Mar-2001 15:57 6.3327°N 43.9998°W 1500 99 21-Mar-2001 15:57 6.3327°N 43.9							
49	47	13-Mar-2001	08:25	1.3318°N	37.9997°W	1500	
S0	48	13-Mar-2001	10:41	1.4992°N	37.9998°W	1500	
51	49	13-Mar-2001	12:47	1.6662°N	37.9998°W	1500	
52	50	13-Mar-2001	14:51	1.8317°N	37.9998°W	1500	
53	51	13-Mar-2001	16:56	1.9988°N	37.9998°W	1500	
54 13-Mar-2001 23:55 2.4990°N 38.0002°W 1500 55 14-Mar-2001 04:18 2.8332°N 38.0010°W 1500 56 14-Mar-2001 06:30 2.9933°N 37.9985°W 1500 58 14-Mar-2001 08:53 3.1660°N 37.9988°W 1500 59 14-Mar-2001 10:59 3.3320°N 37.9998°W 1500 60 14-Mar-2001 13:10 3.4992°N 37.9998°W 1500 61 14-Mar-2001 15:22 3.6660°N 38.0007°W 1500 62 14-Mar-2001 17:37 3.8305°N 38.0007°W 1500 63 14-Mar-2001 17:37 3.8305°N 38.0007°W 1500 64 14-Mar-2001 19:56 3.9990°N 38.0007°W 1500 65 15-Mar-2001 19:56 3.9990°N 38.0007°W 1500 66 15-Mar-2001 02:14 4.6615°N 37.9998°W 1500 66 15-Mar-2001 02:14 4.6615°N 37.9998°W 1500 67 15-Mar-2001 05:32 4.9995°N 37.9997°W 1500 68 15-Mar-2001 11:50 5.6655°N 37.9992°W 1500 69 15-Mar-2001 14:55 5.9947°N 37.9997°W 1500 69 15-Mar-2001 14:55 5.9947°N 37.9997°W 1500 70 15-Mar-2001 01:36 6.3332°N 38.0007°W 1500 71 16-Mar-2001 14:55 5.9947°N 37.9997°W 1500 72 17-Mar-2001 01:36 2.3322°N 41.0002°W 1500 73 17-Mar-2001 01:36 2.3322°N 40.9997°W 1500 74 17-Mar-2001 01:36 2.3322°N 40.9997°W 1500 75 17-Mar-2001 01:36 3.3320°N 40.9997°W 1500 76 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 77 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 78 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 79 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 80 18-Mar-2001 11:30 3.3320°N 40.9997°W 1500 81 18-Mar-2001 02:46 4.93330°N 41.0003°W 1500 81 18-Mar-2001 02:46 4.93830°N 41.0003°W 1500 81 18-Mar-2001 02:46 4.93830°N 41.0003°W 1500 82 18-Mar-2001 02:46 4.93830°N 41.0003°W 1500 84 18-Mar-2001 02:46 4.93830°N 41.0003°W 1500 85 19-Mar-2001 02:47 4.9992°N 41.0002°W 1500 86 19-Mar-2001 02:49 4.9992°N 41.0002°W 1500 87 17-Mar-2001 02:40 4.9992°N 41.0002°W 1500 88 20-Mar-2001 02:40 4.9992°N 41.0002°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 90 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 91 20-Mar-2001 03:14 5.3313°N 44.0002°W 1500 92 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 93 21-Mar-2001 03:44 5.63227°N 43.9995°W 1500 94 21-Mar-20	52	13-Mar-2001	19:19	2.1652°N	38.0000°W	1500	
55	53	13-Mar-2001	21:32	2.3323°N	38.0002°W	1500	
56	54	13-Mar-2001	23:55	2.4990°N	38.0002°W	1500	
57	55	14-Mar-2001	02:02	2.6662°N	38.0008°W	1500	
58	56	14-Mar-2001	04:18	2.8332°N	38.0010°W	1500	
59	57	14-Mar-2001	06:30	2.9993°N	37.9985°W	1500	
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61 14-Mar-2001 15:22 3.6660°N 38.0007°W 1500 62 14-Mar-2001 17:37 3.8305°N 38.0000°W 1500 63 14-Mar-2001 19:56 3.9990°N 38.0007°W 1500 64 14-Mar-2001 23:14 4.3313°N 38.0003°W 1500 65 15-Mar-2001 02:14 4.6615°N 37.9988°W 1500 66 15-Mar-2001 08:36 5.3322°N 38.0000°W 1500 67 15-Mar-2001 08:36 5.3322°N 38.0000°W 1500 68 15-Mar-2001 11:50 5.6655°N 37.9992°W 1500 69 15-Mar-2001 12:55 5.9947°N 37.9997°W 1500 70 15-Mar-2001 18:20 6.3332°N 38.0000°W 1500 71 16-Mar-2001 12:23 1.9990°N 41.0002°W 1500 72 17-Mar-2001 01:36 2.3322°N 41.0000°W 1500 73 17-Mar-2001 05:00 2.6635°N 40.9997°W 1500 74 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 75 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 76 17-Mar-2001 14:19 3.6653°N 41.0003°W 1500 77 17-Mar-2001 11:13 3.3322°N 41.0003°W 1500 78 17-Mar-2001 11:23 3.9983°N 41.0003°W 1500 79 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 80 18-Mar-2001 20:46 4.3330°N 41.0003°W 1500 81 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 82 18-Mar-2001 05:54 5.3318°N 41.0003°W 1500 83 18-Mar-2001 09:08 5.6647°N 41.0003°W 1500 84 18-Mar-2001 09:08 5.6647°N 41.0003°W 1500 85 19-Mar-2001 12:06 5.9992°N 40.9995°W 1500 86 19-Mar-2001 12:06 5.9992°N 40.9995°W 1500 87 20-Mar-2001 11:50 6.3330°N 40.9995°W 1500 88 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 89 20-Mar-2001 11:50 4.3320°N 43.9995°W 1500 90 20-Mar-2001 11:50 4.3320°N 43.9995°W 1500 91 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 92 20-Mar-2001 11:50 4.3320°N 43.9998°W 1500 93 20-Mar-2001 06:18 2.9990°N 43.9997°W 1500 94 21-Mar-2001 06:14 5.3318°N 44.0002°W 1500 95 21-Mar-2001 06:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 06:14 5.3313°N 44.0002°W 1500 97 21-Mar-2001 06:18 2.9990°N 43.9995°W 1500 98 21-Mar-2001 06:14 5.3313°N 44.0002°W 1500 99 20-Mar-2001 06:18 2.9990°N 43.9995°W 1500 90 20-Mar-2001 06:18 2.9990°N 43.9995°W 1500 91 20-Mar-2001 06:34 5.6650°N 43.9995°W 1500 91 20-Mar-2001 06:34 5.6650°N 43.9995°W 1500 92 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 93 21-Mar-2001 06:49 6.0020°N 43.9995°W 1500	59	14-Mar-2001	10:59	3.3320°N	37.9998°W	1500	
62 14-Mar-2001 17:37 3.8305°N 38.000°W 1500 63 14-Mar-2001 19:56 3.9990°N 38.0007°W 1500 64 14-Mar-2001 23:14 4.3313°N 38.0003°W 1500 65 15-Mar-2001 02:14 4.6615°N 37.9998°W 1500 66 15-Mar-2001 05:32 4.9995°N 37.9997°W 1500 67 15-Mar-2001 08:36 5.3322°N 38.000°W 1500 68 15-Mar-2001 11:50 5.6655°N 37.9992°W 1500 69 15-Mar-2001 14:55 5.9947°N 37.9997°W 1500 70 15-Mar-2001 18:20 6.3332°N 38.0007°W 1500 71 16-Mar-2001 22:23 1.9990°N 41.0002°W 1500 72 17-Mar-2001 01:36 2.3322°N 41.0000°W 1500 73 17-Mar-2001 05:00 2.6635°N 40.9997°W 1500 74 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 75 17-Mar-2001 11:13 3.3322°N 40.9997°W 1500 76 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 77 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 78 17-Mar-2001 14:19 3.6653°N 41.0003°W 1500 79 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 79 17-Mar-2001 23:46 4.6670°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 81 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 82 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 83 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 84 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 85 19-Mar-2001 12:06 5.9992°N 40.9992°W 1500 86 19-Mar-2001 02:10 2.6653°N 43.9995°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 03:18 2.9990°N 43.9992°W 1500 89 20-Mar-2001 03:14 5.3330°N 43.9998°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 91 20-Mar-2001 03:14 5.3330°N 43.9998°W 1500 92 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 93 20-Mar-2001 03:14 5.3313°N 44.0002°W 1500 94 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 97 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 98 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 99 20-Mar-2001 03:14 5.3313°N 44.0002°W 1500 99 20-Mar-2001 03:14 5.3313°N 44.0002°W 1500 99 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 99 20-Mar-2001 03:14 5.3313°N 44.0002°W 1500 99 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 99 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500	60	14-Mar-2001	13:10	3.4992°N	37.9998°W	1500	
63 14-Mar-2001 19:56 3.9990°N 38.0007°W 1500 64 14-Mar-2001 23:14 4.3313°N 38.0003°W 1500 65 15-Mar-2001 02:14 4.6615°N 37.9998°W 1500 66 15-Mar-2001 08:36 5.3322°N 38.0000°W 1500 67 15-Mar-2001 11:50 5.6655°N 37.9992°W 1500 68 15-Mar-2001 14:55 5.9947°N 37.9992°W 1500 69 15-Mar-2001 18:20 6.3332°N 38.0007°W 1500 70 15-Mar-2001 18:20 6.3332°N 38.0007°W 1500 71 16-Mar-2001 18:20 6.3332°N 38.0007°W 1500 72 17-Mar-2001 01:36 2.3322°N 41.0002°W 1500 73 17-Mar-2001 05:00 2.6635°N 40.9997°W 1500 74 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 75 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 76 17-Mar-2001 14:19 3.6653°N 40.9997°W 1500 77 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 79 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 81 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 82 18-Mar-2001 05:54 5.3318°N 41.0003°W 1500 83 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 84 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 85 19-Mar-2001 12:06 5.9992°N 40.9992°W 1500 86 19-Mar-2001 02:10 2.6653°N 40.9992°W 1500 87 19-Mar-2001 15:09 6.3330°N 40.9995°W 1500 88 19-Mar-2001 02:06 5.9992°N 40.9992°W 1500 89 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 91 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 92 20-Mar-2001 11:50 4.3320°N 43.9998°W 1500 93 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 94 21-Mar-2001 05:54 5.3318°N 44.0002°W 1500 95 21-Mar-2001 06:34 5.3320°N 43.9998°W 1500 96 21-Mar-2001 07:50 4.3320°N 43.9998°W 1500 97 21-Mar-2001 07:50 4.3320°N 43.9998°W 1500 98 21-Mar-2001 07:44 5.3318°N 44.0002°W 1500 99 20-Mar-2001 07:50 4.3320°N 43.9998°W 1500 99 20-Mar-2001 08:27 3.3327°N 43.9998°W 1500 99 20-Mar-2001 07:50 4.3320°N 43.9998°W 1500 99 20-Mar-2001 07:40 4.6660°N 43.9998°W 1500 99 21-Mar-2001 07:40 6.0000°N 43.9998°W 1500 99 21-Mar-2001 07:40 6.0000°N 43.9998°W 1500	61	14-Mar-2001	15:22	3.6660°N	38.0007°W	1500	
64 14-Mar-2001 23:14 4.3313°N 38.0003°W 1500 65 15-Mar-2001 02:14 4.6615°N 37.9998°W 1500 66 15-Mar-2001 05:32 4.9995°N 37.9997°W 1500 67 15-Mar-2001 11:50 5.6655°N 37.9992°W 1500 68 15-Mar-2001 11:50 5.6655°N 37.9992°W 1500 69 15-Mar-2001 18:20 6.3332°N 38.000°W 1500 70 15-Mar-2001 18:20 6.3332°N 38.000°W 1500 71 16-Mar-2001 22:23 1.9990°N 41.0002°W 1500 72 17-Mar-2001 01:36 2.3322°N 41.0000°W 1500 73 17-Mar-2001 05:00 2.6635°N 40.9997°W 1500 74 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 75 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 76 17-Mar-2001 11:13 3.3653°N 41.0003°W 1500 77 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 79 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 81 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0003°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0003°W 1500 82 18-Mar-2001 05:04 5.9992°N 40.9992°W 1500 84 18-Mar-2001 02:42 4.9982°N 40.9992°W 1500 85 19-Mar-2001 20:66 5.9992°N 40.9992°W 1500 86 19-Mar-2001 20:06 2.0045°N 43.9995°W 1500 87 20-Mar-2001 05:18 2.9990°N 43.9992°W 1500 88 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 89 20-Mar-2001 11:53 3.6656°N 43.9995°W 1500 90 20-Mar-2001 11:53 3.6656°N 43.9995°W 1500 91 20-Mar-2001 11:50 4.3320°N 43.9995°W 1500 92 20-Mar-2001 11:50 4.3320°N 43.9995°W 1500 93 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 94 21-Mar-2001 17:50 4.3320°N 44.0002°W 1500 95 21-Mar-2001 00:07 4.9988°N 44.0002°W 1500 96 21-Mar-2001 00:07 4.9988°N 44.0002°W 1500 97 21-Mar-2001 00:07 4.9988°N 44.0002°W 1500 98 21-Mar-2001 00:07 4.9988°N 44.0002°W 1500 99 20-Mar-2001 00:07 4.9988°N 44.0002°W 1500 99 21-Mar-2001 00:07 4.9988°N 44.0002°W 1500 99 21-Mar-2001 00:07 4.9988°N 43.9995°W 1500	62	14-Mar-2001	17:37	3.8305°N	38.0000°W	1500	
64 14-Mar-2001 23:14 4.3313°N 38.0003°W 1500 65 15-Mar-2001 02:14 4.6615°N 37.9998°W 1500 66 15-Mar-2001 08:36 5.3322°N 37.9997°W 1500 67 15-Mar-2001 11:50 5.6655°N 37.9992°W 1500 68 15-Mar-2001 11:50 5.6655°N 37.9992°W 1500 69 15-Mar-2001 18:20 6.3332°N 38.000°W 1500 70 15-Mar-2001 18:20 6.3332°N 38.000°W 1500 71 16-Mar-2001 22:23 1.9990°N 41.0002°W 1500 72 17-Mar-2001 01:36 2.3322°N 41.0000°W 1500 73 17-Mar-2001 05:00 2.6635°N 40.9997°W 1500 74 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 75 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 76 17-Mar-2001 11:13 3.3653°N 41.0003°W 1500 77 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 79 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 81 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0003°W 1500 82 18-Mar-2001 09:08 5.6647°N 41.0003°W 1500 83 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 84 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 85 19-Mar-2001 20:10 2.6653°N 40.9995°W 1500 86 19-Mar-2001 20:06 2.0045°N 43.9995°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 89 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 91 20-Mar-2001 11:50 4.3320°N 43.9995°W 1500 92 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 93 20-Mar-2001 11:50 4.3320°N 43.9995°W 1500 94 21-Mar-2001 09:04 4.6660°N 44.0002°W 1500 95 21-Mar-2001 09:04 4.6660°N 43.9995°W 1500 96 21-Mar-2001 09:04 4.6660°N 44.0002°W 1500 97 21-Mar-2001 09:04 4.6660°N 44.0002°W 1500 98 21-Mar-2001 09:04 5.6650°N 43.9995°W 1500 99 20-Mar-2001 11:50 4.3320°N 44.0002°W 1500 99 20-Mar-2001 09:49 6.0002°N 43.9995°W 1500 99 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500	63	14-Mar-2001	19:56	3.9990°N	38.0007°W	1500	
66 15-Mar-2001 05:32 4.9995°N 37.9997°W 1500 67 15-Mar-2001 08:36 5.3322°N 38.0000°W 1500 68 15-Mar-2001 11:50 5.6655°N 37.9992°W 1500 69 15-Mar-2001 14:55 5.9947°N 37.9997°W 1500 70 15-Mar-2001 18:20 6.3332°N 38.0007°W 1500 71 16-Mar-2001 22:23 1.9990°N 41.0002°W 1500 72 17-Mar-2001 01:36 2.3322°N 41.0000°W 1500 73 17-Mar-2001 05:00 2.6635°N 40.9997°W 1500 74 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 75 17-Mar-2001 11:13 3.3322°N 40.9997°W 1500 76 17-Mar-2001 11:13 3.3322°N 41.0003°W 1500 77 17-Mar-2001 11:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 79 17-Mar-2001 23:46 4.6670°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0005°W 1500 82 18-Mar-2001 09:08 5.6647°N 41.0003°W 1500 83 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 84 18-Mar-2001 12:06 5.9992°N 40.9995°W 1500 85 19-Mar-2001 23:12 2.3333°N 43.9998°W 1500 86 19-Mar-2001 02:10 2.6653°N 43.9995°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 02:10 2.6653°N 43.9998°W 1500 89 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 90 20-Mar-2001 11:50 4.3320°N 43.9998°W 1500 91 20-Mar-2001 03:14 5.3313°N 43.9998°W 1500 92 20-Mar-2001 11:50 4.3320°N 43.9998°W 1500 93 20-Mar-2001 03:14 5.3313°N 43.9998°W 1500 94 21-Mar-2001 03:14 5.3313°N 43.9998°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 97 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 98 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 99 20-Mar-2001 03:14 5.3313°N 44.0002°W 1500 99 20-Mar-2001 03:14 5.3313°N 44.0002°W 1500 99 20-Mar-2001 03:14 5.3313°N 44.0002°W 1500 90 20-Mar-2001 03:14 5.3313°N 44.0002°W 1500 91 20-Mar-2001 03:14 5.3313°N 44.9003°W 1500 93 20-Mar-2001 03:14 5.3313°N 44.9999°W 1500 94 21-Mar-2001 03:14 5.3313°N 44.9003°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.9003°W 1500 96 21-Mar-2001 03:14 5.3313°N 44.9003°W 1500	64	14-Mar-2001	23:14	4.3313°N	38.0003°W	1500	
67 15-Mar-2001 08:36 5.3322°N 38.0000°W 1500 68 15-Mar-2001 11:50 5.6655°N 37.9992°W 1500 69 15-Mar-2001 14:55 5.9947°N 37.9992°W 1500 70 15-Mar-2001 18:20 6.3332°N 38.0007°W 1500 71 16-Mar-2001 22:23 1.9990°N 41.0002°W 1500 72 17-Mar-2001 01:36 2.3322°N 41.0000°W 1500 73 17-Mar-2001 05:00 2.6635°N 40.9997°W 1500 74 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 75 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 76 17-Mar-2001 11:13 3.36553°N 41.0003°W 1500 77 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 79 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 81 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 82 18-Mar-2001 05:54 5.3318°N 41.0003°W 1500 83 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 84 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 85 19-Mar-2001 12:06 5.9992°N 40.9992°W 1500 86 19-Mar-2001 20:06 2.0045°N 43.9973°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 89 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 91 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 92 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 93 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 94 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 97 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 98 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 99 20-Mar-2001 17:50 4.3320°N 43.9995°W 1500 99 20-Mar-2001 03:14 5.3313°N 44.0002°W 1500 99 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500	65	15-Mar-2001	02:14	4.6615°N	37.9998°W	1500	
68 15-Mar-2001 11:50 5.6655°N 37.9992°W 1500 69 15-Mar-2001 14:55 5.9947°N 37.9997°W 1500 70 15-Mar-2001 18:20 6.3332°N 38.0007°W 1500 71 16-Mar-2001 22:23 1.9990°N 41.0002°W 1500 72 17-Mar-2001 05:00 2.6635°N 40.9997°W 1500 73 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 74 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 75 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 76 17-Mar-2001 11:13 3.3322°N 41.0003°W 1500 77 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 79 17-Mar-2001 20:46 4.6670°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0002°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0002°W 1500 82 18-Mar-2001 09:08 5.6647°N 41.0003°W 1500 83 18-Mar-2001 05:54 5.3318°N 41.0005°W 1500 84 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 85 19-Mar-2001 20:06 2.0045°N 43.9973°W 1500 86 19-Mar-2001 23:12 2.3333°N 49.9995°W 1500 87 20-Mar-2001 05:18 2.9990°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9995°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 17:50 4.3320°N 43.9997°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9997°W 1500 93 20-Mar-2001 17:50 4.3320°N 43.9997°W 1500 94 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 95 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 96 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 97 21-Mar-2001 00:34 5.6650°N 43.9995°W 1500 98 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 99 20-Mar-2001 00:07 4.9998°N 44.0002°W 1500 99 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500	66	15-Mar-2001	05:32	4.9995°N	37.9997°W	1500	
69 15-Mar-2001 14:55 5.9947°N 37.9997°W 1500 70 15-Mar-2001 18:20 6.3332°N 38.0007°W 1500 71 16-Mar-2001 22:23 1.9990°N 41.0000°W 1500 72 17-Mar-2001 05:00 2.6635°N 40.9997°W 1500 73 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 74 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 75 17-Mar-2001 14:19 3.6653°N 41.0003°W 1500 76 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 77 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 79 17-Mar-2001 22:46 4.6670°N 41.0003°W 1500 80 18-Mar-2001 05:54 5.3318°N 41.0002°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0003°W 1500 82 18-Mar-2001	67	15-Mar-2001	08:36	5.3322°N	38.0000°W	1500	
70	68	15-Mar-2001	11:50	5.6655°N	37.9992°W	1500	
71 16-Mar-2001 22:23 1.9990°N 41.0002°W 1500 72 17-Mar-2001 01:36 2.3322°N 41.0000°W 1500 73 17-Mar-2001 05:00 2.6635°N 40.9997°W 1500 74 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 75 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 76 17-Mar-2001 14:19 3.6653°N 41.0003°W 1500 77 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 79 17-Mar-2001 23:46 4.6670°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0002°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0003°W 1500 82 18-Mar-2001 05:54 5.3318°N 41.0003°W 1500 83 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 84 18-Mar-2001 15:09 6.3330°N 40.9995°W 1500 85 19-Mar-2001 20:06 2.0045°N 43.9973°W 1500 86 19-Mar-2001 23:12 2.3333°N 43.9998°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9997°W 1500 89 20-Mar-2001 11:53 3.6665°N 43.9998°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 92 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 93 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 94 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 95 21-Mar-2001 00:34 5.6650°N 43.9995°W 1500 96 21-Mar-2001 00:34 5.6650°N 43.9995°W 1500 97 21-Mar-2001 00:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 99 20-Mar-2001 00:34 5.6350°N 43.9995°W 1500 99 21-Mar-2001 00:49 6.0002°N 43.9995°W 1500	69	15-Mar-2001	14:55	5.9947°N	37.9997°W	1500	
72 17-Mar-2001 01:36 2.3322°N 41.0000°W 1500 73 17-Mar-2001 05:00 2.6635°N 40.9997°W 1500 74 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 75 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 76 17-Mar-2001 14:19 3.6653°N 41.0003°W 1500 77 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 79 17-Mar-2001 23:46 4.6670°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0002°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0005°W 1500 82 18-Mar-2001 09:08 5.6647°N 41.0003°W 1500 83 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 84 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 85 19-Mar-2001 23:12 2.3333°N 43.9973°W 1500 86 19-Mar-2001 23:12 2.3333°N 43.9998°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9995°W 1500 89 20-Mar-2001 11:53 3.6665°N 43.9995°W 1500 90 20-Mar-2001 14:50 3.9972°N 43.9998°W 1500 91 20-Mar-2001 15:05 4.3320°N 43.9998°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9998°W 1500 93 20-Mar-2001 17:50 4.3320°N 43.9997°W 1500 94 21-Mar-2001 00:7 4.9988°N 44.0002°W 1500 95 21-Mar-2001 00:49 6.0002°N 43.9995°W 1500 96 21-Mar-2001 00:49 6.0002°N 43.9995°W 1500 97 21-Mar-2001 00:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 00:49 6.0002°N 43.9995°W 1500	70	15-Mar-2001	18:20	6.3332°N	38.0007°W	1500	
73 17-Mar-2001 05:00 2.6635°N 40.9997°W 1500 74 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 75 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 76 17-Mar-2001 14:19 3.6653°N 41.0003°W 1500 77 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 79 17-Mar-2001 23:46 4.6670°N 41.0003°W 1500 80 18-Mar-2001 05:54 5.3318°N 41.0005°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0005°W 1500 82 18-Mar-2001 12:06 5.9992°N 41.0003°W 1500 83 18-Mar-2001 15:09 6.3330°N 40.9992°W 1500 85 19-Mar-2001 20:06 2.0045°N 43.9973°W 1500 86 19-Mar-2001	71	16-Mar-2001	22:23	1.9990°N	41.0002°W	1500	
74 17-Mar-2001 08:11 2.9990°N 40.9997°W 1500 75 17-Mar-2001 11:13 3.3322°N 40.9993°W 1500 76 17-Mar-2001 14:19 3.6653°N 41.0003°W 1500 77 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 79 17-Mar-2001 23:46 4.6670°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0003°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0005°W 1500 82 18-Mar-2001 09:08 5.6647°N 41.0003°W 1500 83 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 84 18-Mar-2001 15:09 6.3330°N 40.9995°W 1500 85 19-Mar-2001 20:06 2.0045°N 43.99973°W 1500 86 19-Mar-2001 23:12 2.3333°N 43.9998°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9995°W 1500 89 20-Mar-2001 08:27 3.3327°N 43.9980°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 14:50 3.9972°N 44.0002°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9998°W 1500 93 20-Mar-2001 17:50 4.3320°N 43.9998°W 1500 94 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.332°N 43.9993°W 1500	72	17-Mar-2001	01:36	2.3322°N	41.0000°W	1500	
75	73	17-Mar-2001	05:00	2.6635°N	40.9997°W	1500	
76 17-Mar-2001 14:19 3.6653°N 41.0003°W 1500 77 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 79 17-Mar-2001 23:46 4.6670°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0002°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0005°W 1500 82 18-Mar-2001 09:08 5.6647°N 41.0003°W 1500 83 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 84 18-Mar-2001 15:09 6.3330°N 40.9995°W 1500 85 19-Mar-2001 20:06 2.0045°N 43.99973°W 1500 86 19-Mar-2001 02:10 2.6653°N 43.9998°W 1500 87 20-Mar-2001 05:18 2.9990°N 43.9995°W 1500 89 20-Mar-200	74	17-Mar-2001	08:11	2.9990°N	40.9997°W	1500	
77 17-Mar-2001 17:28 3.9983°N 41.0003°W 1500 78 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 79 17-Mar-2001 23:46 4.6670°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0002°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0005°W 1500 82 18-Mar-2001 09:08 5.6647°N 41.0003°W 1500 83 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 84 18-Mar-2001 15:09 6.3330°N 40.9995°W 1500 85 19-Mar-2001 20:06 2.0045°N 43.9973°W 1500 86 19-Mar-2001 23:12 2.3333°N 43.9998°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9992°W 1500 89 20-Mar-2001 05:18 2.9990°N 43.9992°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 92 20-Mar-2001 11:53 3.972°N 44.0002°W 1500 93 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 94 21-Mar-2001 20:51 4.6660°N 43.9978°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 03:14 5.3313°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500	75	17-Mar-2001	11:13	3.3322°N	40.9993°W	1500	
78 17-Mar-2001 20:46 4.3330°N 41.0003°W 1500 79 17-Mar-2001 23:46 4.6670°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0002°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0005°W 1500 82 18-Mar-2001 09:08 5.6647°N 41.0003°W 1500 83 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 84 18-Mar-2001 15:09 6.3330°N 40.9995°W 1500 85 19-Mar-2001 20:06 2.0045°N 43.9973°W 1500 86 19-Mar-2001 23:12 2.3333°N 43.9998°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9992°W 1500 89 20-Mar-2001 11:53 3.6665°N 43.9990°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 14:50 3.9972°N 44.0002°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 93 20-Mar-2001 00:07 4.9998°N 44.0002°W 1500 94 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 95 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 96 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500	76	17-Mar-2001	14:19	3.6653°N	41.0003°W	1500	
79 17-Mar-2001 23:46 4.6670°N 41.0003°W 1500 80 18-Mar-2001 02:42 4.9982°N 41.0002°W 1500 81 18-Mar-2001 05:54 5.3318°N 41.0003°W 1500 82 18-Mar-2001 09:08 5.6647°N 41.0003°W 1500 83 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 84 18-Mar-2001 15:09 6.3330°N 40.9995°W 1500 85 19-Mar-2001 20:06 2.0045°N 43.9973°W 1500 86 19-Mar-2001 23:12 2.3333°N 43.9998°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9992°W 1500 89 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 14:50 3.9972°N 44.0002°W 1500 92 20-Mar-2001	77	17-Mar-2001	17:28	3.9983°N	41.0003°W	1500	
80	78	17-Mar-2001	20:46	4.3330°N	41.0003°W	1500	
81	79	17-Mar-2001	23:46	4.6670°N	41.0003°W	1500	
82 18-Mar-2001 09:08 5.6647°N 41.0003°W 1500 83 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 84 18-Mar-2001 15:09 6.3330°N 40.9995°W 1500 85 19-Mar-2001 20:06 2.0045°N 43.9973°W 1500 86 19-Mar-2001 23:12 2.3333°N 43.9998°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9992°W 1500 89 20-Mar-2001 08:27 3.3327°N 43.9980°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 14:50 3.9972°N 44.0002°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 93 20-Mar-2001 20:51 4.6660°N 44.0002°W 1500 94 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 95	80	18-Mar-2001	02:42	4.9982°N	41.0002°W	1500	
83 18-Mar-2001 12:06 5.9992°N 40.9992°W 1500 84 18-Mar-2001 15:09 6.3330°N 40.9995°W 1500 85 19-Mar-2001 20:06 2.0045°N 43.9973°W 1500 86 19-Mar-2001 23:12 2.3333°N 43.9998°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9992°W 1500 89 20-Mar-2001 08:27 3.3327°N 43.9980°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 14:50 3.9972°N 44.0002°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 93 20-Mar-2001 20:51 4.6660°N 44.0002°W 1500 94 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 95 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 97	81	18-Mar-2001	05:54	5.3318°N	41.0005°W	1500	
84 18-Mar-2001 15:09 6.3330°N 40.9995°W 1500 85 19-Mar-2001 20:06 2.0045°N 43.9973°W 1500 86 19-Mar-2001 23:12 2.3333°N 43.9998°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9992°W 1500 89 20-Mar-2001 08:27 3.3327°N 43.9980°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 14:50 3.9972°N 44.0002°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 93 20-Mar-2001 20:51 4.6660°N 44.0002°W 1500 94 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9993°W 1500 98	82	18-Mar-2001	09:08	5.6647°N	41.0003°W	1500	
85 19-Mar-2001 20:06 2.0045°N 43.9973°W 1500 86 19-Mar-2001 23:12 2.3333°N 43.9998°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9992°W 1500 89 20-Mar-2001 08:27 3.3327°N 43.9980°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 14:50 3.9972°N 44.0002°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 93 20-Mar-2001 20:51 4.6660°N 44.0003°W 1500 94 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 95 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 96 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500	83	18-Mar-2001	12:06	5.9992°N	40.9992°W	1500	
86 19-Mar-2001 23:12 2.3333°N 43.9998°W 1500 87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9992°W 1500 89 20-Mar-2001 08:27 3.3327°N 43.9980°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 14:50 3.9972°N 44.0002°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 93 20-Mar-2001 20:51 4.6660°N 44.0003°W 1500 94 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500	84	18-Mar-2001	15:09	6.3330°N	40.9995°W	1500	
87 20-Mar-2001 02:10 2.6653°N 43.9995°W 1500 88 20-Mar-2001 05:18 2.9990°N 43.9992°W 1500 89 20-Mar-2001 08:27 3.3327°N 43.9980°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 14:50 3.9972°N 44.0002°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 93 20-Mar-2001 20:51 4.6660°N 44.0003°W 1500 94 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500	85	19-Mar-2001	20:06	2.0045°N	43.9973°W	1500	
88 20-Mar-2001 05:18 2.9990°N 43.9992°W 1500 89 20-Mar-2001 08:27 3.3327°N 43.9980°W 1500 90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 14:50 3.9972°N 44.0002°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 93 20-Mar-2001 20:51 4.6660°N 44.0003°W 1500 94 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500	86	19-Mar-2001	23:12	2.3333°N	43.9998°W	1500	
89	87	20-Mar-2001	02:10	2.6653°N	43.9995°W	1500	
90 20-Mar-2001 11:53 3.6665°N 43.9997°W 1500 91 20-Mar-2001 14:50 3.9972°N 44.0002°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 93 20-Mar-2001 20:51 4.6660°N 44.0003°W 1500 94 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500	88	20-Mar-2001	05:18	2.9990°N	43.9992°W	1500	
91 20-Mar-2001 14:50 3.9972°N 44.0002°W 1500 92 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 93 20-Mar-2001 20:51 4.6660°N 44.0003°W 1500 94 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500		20-Mar-2001		3.3327°N	43.9980°W		
92 20-Mar-2001 17:50 4.3320°N 43.9978°W 1500 93 20-Mar-2001 20:51 4.6660°N 44.0003°W 1500 94 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500		20-Mar-2001	11:53	3.6665°N	43.9997°W		
93 20-Mar-2001 20:51 4.6660°N 44.0003°W 1500 94 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500							
94 21-Mar-2001 00:07 4.9998°N 44.0002°W 1500 95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500				4.3320°N	43.9978°W		
95 21-Mar-2001 03:14 5.3313°N 44.0002°W 1500 96 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500							
96 21-Mar-2001 06:34 5.6650°N 43.9995°W 1500 97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500		21-Mar-2001		4.9998°N			
97 21-Mar-2001 09:49 6.0002°N 43.9995°W 1500 98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500							
98 21-Mar-2001 12:57 6.3327°N 43.9993°W 1500				5.6650°N	43.9995°W		
99 21-Mar-2001 16:09 6.6645°N 43.9998°W 1500					43.9993°W		
	99	21-Mar-2001	16:09	6.6645°N	43.9998°W	1500	

Table 2: Mark 12 XBT deployments

XBT	Date	Time(UTC)	Latitude	Longitude	comment
2	10-Mar-2001	14:03	6.1819°N	35.0065°W	
4	10-Mar-2001	21:24	6.9862°N	35.0005°W	
5	10-Mar-2001	23:07	6.9794°N	35.0145°W	
6	11-Mar-2001	01:06	6.6153°N	35.1710°W	
7	11-Mar-2001	03:19	6.2302°N	35.3365°W	
8	11-Mar-2001	05:29	5.8438°N	35.5015°W	
9	11-Mar-2001	07:32	5.4715°N	35.6613°W	
10	11-Mar-2001	09:39	5.0858°N	35.8263°W	
11	11-Mar-2001	11:48	4.6995°N	35.9921°W	
12	11-Mar-2001	13:57	4.3190°N	36.1549°W	
14	11-Mar-2001	16:07	3.9215°N	36.3262°W	
15	11-Mar-2001	18:8	3.5409°N	36.4881°W	
17	11-Mar-2001	22:21	2.7787°N	36.8140°W	
18	12-Mar-2001	00:20	2.4017°N	36.9750°W	
19	12-Mar-2001	02:33	2.0077°N	37.1360°W	
20	12-Mar-2001	04:38	1.6300°N	37.3038°W	
21	12-Mar-2001	06:45	1.2515°N	37.4660°W	
22	12-Mar-2001	08:50	0.8707°N	37.6285°W	
23	12-Mar-2001	10:58	0.4838°N	37.7938°W	
24	12-Mar-2001	13:41	0.0034°N	37.9976°W	
25	12-Mar-2001	15:11	0.0010°N	38.0015°W	
27	15-Mar-2001	18:16	6.3303°N	38.0000°W	
28	15-Mar-2001	19:36	6.3466°N	38.0074°W	
29	15-Mar-2001	21:56	5.9693°N	38.2684°W	
30	16-Mar-2001	00:10	5.6110°N	38.5160°W	
31	16-Mar-2001	02:29	5.2337°N	38.7753°W	
32	16-Mar-2001	04:44	4.8700°N	39.0267°W	
33	16-Mar-2001	06:57	4.5067°N	39.2760°W	
34	16-Mar-2001	09:16	4.1294°N	39.5360°W	
35	16-Mar-2001	11:25	3.7718°N	39.7823°W	
36	16-Mar-2001	13:42	3.3969°N	40.0400°W	
37	16-Mar-2001	16:01	3.0168°N	40.3015°W	
38	16-Mar-2001	18:12	2.6681°N	40.5409°W	
39	16-Mar-2001	20:29	2.2990°N	40.7946°W	
40	16-Mar-2001	22:17	2.0046°N	40.9974°W	
41	16-Mar-2001	23:38	1.9972°N	41.0063°W	
42	18-Mar-2001	15:01	6.3149°N	41.0002°W	
43	18-Mar-2001	16:22	6.3513°N	41.0025°W	
44	18-Mar-2001	18:51	5.9661°N	41.2717°W	
45	18-Mar-2001	21:01	5.6190°N	41.5110°W	
46	18-Mar-2001	23:26	5.2367°N	41.7746°W	
47	19-Mar-2001	01:44	4.8682°N	42.0295°W	
48	19-Mar-2001	04:00	4.5047°N	42.2780°W	
50	19-Mar-2001	06:17	4.1366°N	42.5319°W	
51	19-Mar-2001	08:33	3.7738°N	42.7818°W	
52	19-Mar-2001	10:54	3.4038°N	43.0359°W	
53	19-Mar-2001	13:16	3.0352°N	43.2888°W	
54	19-Mar-2001	15:42	2.6694°N	43.5405°W	
55	19-Mar-2001	18:07	2.3021°N	43.7931°W	>250 bad

56 19-Mar-2001 18:11 2.2913°N 43.8006°W 57 19-Mar-2001 19:59 2.0183°N 43.9879°W 58 19-Mar-2001 21:24 2.0047°N 43.9921°W 59 21-Mar-2001 19:46 6.8399°N 44.3777°W 60 21-Mar-2001 22:12 7.0180°N 44.8106°W 61 21-Mar-2001 23:53 7.1412°N 45.1105°W 63 22-Mar-2001 03:06 7.3728°N 45.6748°W 64 22-Mar-2001 04:57 7.5065°N 45.9990°W 66 22-Mar-2001 07:05 7.6565°N 45.9990°W 66 22-Mar-2001 07:05 7.6565°N 45.9990°W 67 22-Mar-2001 07:05 7.6565°N 45.9990°W 68 22-Mar-2001 10:51 7.9216°N 47.0108°W 69 22-Mar-2001 15:03 8.2139°N 47.7282°W 70 22-Mar-2001 16:40 8.3274°N 48.0384°W 73					
58 19-Mar-2001 21:24 2.0047°N 43.9921°W 59 21-Mar-2001 17:32 6.6954°N 43.9982°W 60 21-Mar-2001 19:46 6.8399°N 44.3777°W 61 21-Mar-2001 22:12 7.0180°N 44.8106°W 62 21-Mar-2001 03:53 7.1412°N 45.1105°W 63 22-Mar-2001 03:06 7.3728°N 45.6748°W 64 22-Mar-2001 04:57 7.5065°N 45.9990°W 66 22-Mar-2001 07:05 7.6580°N 46.3681°W 67 22-Mar-2001 09:00 7.7906°N 46.6937°W 68 22-Mar-2001 10:51 7.9216°N 47.0108°W 69 22-Mar-2001 15:03 8.2139°N 47.7282°W 70 22-Mar-2001 16:40 8.3274°N 48.0384°W 72 22-Mar-2001 18:31 8.4623°N 43.3384°W 73 22-Mar-2001 20:23 8.593°N 48.6727°W 74	56	19-Mar-2001	18:11	2.2913°N	43.8006°W
59 21-Mar-2001 17:32 6.6954°N 43.9982°W 60 21-Mar-2001 19:46 6.8399°N 44.3777°W 61 21-Mar-2001 22:12 7.0180°N 44.8106°W 62 21-Mar-2001 23:53 7.1412°N 45.1105°W 63 22-Mar-2001 01:16 7.2423°N 45.3529°W 64 22-Mar-2001 03:06 7.3728°N 45.6748°W 65 22-Mar-2001 04:57 7.5065°N 45.9990°W 66 22-Mar-2001 07:05 7.6580°N 46.6937°W 67 22-Mar-2001 09:00 7.7906°N 46.6937°W 68 22-Mar-2001 10:51 7.9216°N 47.0108°W 69 22-Mar-2001 15:03 8.2139°N 47.7282°W 70 22-Mar-2001 16:40 8.3274°N 48.0087°W 71 22-Mar-2001 18:31 8.4623°N 48.3384°W 72 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 22:15 8.7366°N 49.0093°W 75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 07:22 9.4193°N 50.4455°W 79 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 11:26 9.7095°N 51.3804°W 83 23-Mar-2001 11:26 9.7095°N 51.3804°W 84 23-Mar-2001 11:26 9.7095°N 51.3804°W 85 23-Mar-2001 11:26 9.7095°N 51.3804°W 86 23-Mar-2001 11:26 9.7095°N 51.3804°W 87 23-Mar-2001 11:26 9.7095°N 51.3804°W 88 23-Mar-2001 11:09 9.5518°N 51.0003°W 85 23-Mar-2001 11:09 9.5518°N 51.0003°W 86 23-Mar-2001 11:09 9.5518°N 51.0003°W 87 23-Mar-2001 11:26 9.7095°N 51.3804°W 88 23-Mar-2001 11:09 9.5518°N 51.0003°W 89 24-Mar-2001 23:01 10.5100°N 53.3488°W 89 24-Mar-2001 23:01 10.5100°N 53.3488°W 89 24-Mar-2001 00:51 10.6392°N 53.3573°W 89 24-Mar-2001 00:47 10.9633°N 54.3917°W 90 24-Mar-2001 00:47 10.9633°N 54.3917°W 91 24-Mar-2001 00:47 10.9633°N 54.3917°W 92 24-Mar-2001 00:47 10.9633°N 54.3917°W 93 24-Mar-2001 00:47 10.9633°N 54.3917°W 94 24-Mar-2001 00:47 10.9633°N 54.3917°W	57	19-Mar-2001	19:59	2.0183°N	43.9879°W
60 21-Mar-2001 19:46 6.8399°N 44.3777°W 61 21-Mar-2001 22:12 7.0180°N 44.8106°W 62 21-Mar-2001 03:53 7.1412°N 45.1105°W 63 22-Mar-2001 01:16 7.2423°N 45.3529°W 64 22-Mar-2001 03:06 7.3728°N 45.6748°W 65 22-Mar-2001 04:57 7.5065°N 45.9990°W 66 22-Mar-2001 07:05 7.6580°N 46.3681°W 67 22-Mar-2001 10:51 7.9216°N 47.0108°W 68 22-Mar-2001 10:51 7.9216°N 47.0108°W 69 22-Mar-2001 12:48 8.0615°N 47.3524°W 70 22-Mar-2001 15:03 8.2139°N 47.7282°W 71 22-Mar-2001 18:31 8.4623°N 48.3384°W 72 22-Mar-2001 18:31 8.4623°N 48.3384°W 73 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 20:23 8.5993°N 49.0093°W 75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 07:22 9.4193°N 50.679°W 80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 11:26 9.7095°N 51.3804°W 83 23-Mar-2001 11:26 9.7095°N 51.3804°W 84 23-Mar-2001 11:03 9.0051°N 51.7011°W 85 23-Mar-2001 11:04 9.5518°N 51.0003°W 86 23-Mar-2001 11:05 9.0959°N 51.9940°W 87 23-Mar-2001 11:06 9.7095°N 51.3804°W 88 23-Mar-2001 11:07 9.0566°N 51.0003°W 89 24-Mar-2001 11:07 9.051 10.6392°N 52.3300°W 80 23-Mar-2001 11:08 9.7095°N 51.3804°W 81 23-Mar-2001 11:09 9.7095°N 51.3804°W 82 23-Mar-2001 11:09 9.5518°N 51.0003°W 83 23-Mar-2001 11:09 9.5518°N 51.0003°W 84 23-Mar-2001 11:09 9.7095°N 51.3804°W 85 23-Mar-2001 11:09 9.7095°N 51.3804°W 86 23-Mar-2001 11:09 9.7095°N 51.3804°W 87 23-Mar-2001 11:09 9.7095°N 51.3804°W 88 23-Mar-2001 11:09 9.7095°N 51.3804°W 90 24-Mar-2001 00:51 10.6392°N 53.3573°W 91 24-Mar-2001 00:47 10.9633°N 54.3917°W 92 24-Mar-2001 00:47 10.9633°N 54.3917°W 92 24-Mar-2001 00:47 10.9633°N 54.3917°W 93 24-Mar-2001 00:47 10.9633°N 54.3917°W 94 24-Mar-2001 00:47 10.9633°N 54.3917°W 95 24-Mar-2001 00:47 10.9633°N 54.3917°W 96 24-Mar-2001 00:51 11.0731°N 54.6639°W 97 24-Mar-2001 00:59 11.2027°N 54.980°W	58	19-Mar-2001	21:24	2.0047°N	43.9921°W
61 21-Mar-2001 22:12 7.0180°N 44.8106°W 62 21-Mar-2001 01:16 7.2423°N 45.1105°W 63 22-Mar-2001 03:06 7.3728°N 45.6748°W 64 22-Mar-2001 04:57 7.5065°N 45.9990°W 65 22-Mar-2001 07:05 7.6580°N 46.3681°W 67 22-Mar-2001 09:00 7.7906°N 46.6937°W 68 22-Mar-2001 10:51 7.9216°N 47.0108°W 69 22-Mar-2001 12:48 8.0615°N 47.3524°W 70 22-Mar-2001 15:03 8.2139°N 47.7282°W 71 22-Mar-2001 16:40 8.3274°N 48.0087°W 72 22-Mar-2001 18:31 8.4623°N 48.3384°W 73 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 20:23 8.5993°N 49.0093°W 75 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 01:51 9.0051°N 49.6641°W 78 23-Mar-2001 01:51 9.0051°N 50.0265°W 79 23-Mar-2001 07:22 9.4193°N 50.4455°W 79 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 11:26 9.7095°N 51.3804°W 83 23-Mar-2001 11:26 9.7095°N 51.3804°W 84 23-Mar-2001 11:26 9.7095°N 51.3804°W 85 23-Mar-2001 11:26 9.7095°N 51.3804°W 86 23-Mar-2001 11:26 9.7095°N 51.3804°W 87 23-Mar-2001 11:26 9.7095°N 51.3804°W 88 23-Mar-2001 11:26 9.7095°N 51.3804°W 89 24-Mar-2001 23:01 10.5100°N 53.3488°W 80 23-Mar-2001 11:26 9.7095°N 51.3804°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 11:26 9.7095°N 51.3804°W 83 23-Mar-2001 11:26 9.7095°N 51.3804°W 84 23-Mar-2001 11:26 9.7095°N 51.3804°W 85 23-Mar-2001 11:26 9.7095°N 51.3804°W 86 23-Mar-2001 11:26 9.7095°N 51.3804°W 87 23-Mar-2001 11:26 9.7095°N 51.3804°W 88 23-Mar-2001 11:26 9.7095°N 51.3804°W 89 24-Mar-2001 09:41 10.5132°N 53.0373°W 80 23-Mar-2001 11:05 9.505°N 53.3573°W 81 24-Mar-2001 00:51 10.6392°N 53.36666°W 90 24-Mar-2001 00:447 10.9633°N 54.0015°W 91 24-Mar-2001 00:447 10.9633°N 54.3917°W 92 24-Mar-2001 00:47 10.9633°N 54.3917°W 93 24-Mar-2001 00:59 11.2027°N 54.980°W	59	21-Mar-2001	17:32	6.6954°N	43.9982°W
62 21-Mar-2001 23:53 7.1412°N 45.1105°W 63 22-Mar-2001 01:16 7.2423°N 45.3529°W 64 22-Mar-2001 03:06 7.3728°N 45.6748°W 65 22-Mar-2001 04:57 7.5065°N 45.9990°W 66 22-Mar-2001 09:00 7.7906°N 46.3681°W 67 22-Mar-2001 10:51 7.9216°N 47.0108°W 68 22-Mar-2001 10:51 7.9216°N 47.0108°W 69 22-Mar-2001 15:03 8.2139°N 47.7282°W 70 22-Mar-2001 15:03 8.2139°N 47.7282°W 71 22-Mar-2001 18:31 8.4623°N 48.3384°W 72 22-Mar-2001 18:31 8.4623°N 48.3384°W 73 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 20:25 8.7366°N 49.0093°W 75 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 07:51 9.051°N 50.0265°W 78 23-Mar-2001 07:22 9.4193°N 50.4455°W 79 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 15:02 9.9196°N 51.9940°W 84 23-Mar-2001 15:02 9.9596°N 51.9940°W 85 23-Mar-2001 15:02 9.9596°N 51.9940°W 86 23-Mar-2001 17:03 10.0963°N 52.3300°W 87 23-Mar-2001 19:04 10.2325°N 52.66651°W 88 23-Mar-2001 19:04 10.2325°N 52.6651°W 89 24-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:01 10.5100°N 53.3488°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 00:47 10.9633°N 54.3917°W 91 24-Mar-2001 00:47 10.9633°N 54.0015°W 91 24-Mar-2001 00:47 10.9633°N 54.3917°W 92 24-Mar-2001 00:47 10.9633°N 54.3917°W 92 24-Mar-2001 00:47 10.9633°N 54.3917°W 92 24-Mar-2001 00:47 10.9633°N 54.3917°W 93 24-Mar-2001 00:59 11.202°N 54.9880°W	60	21-Mar-2001	19:46	6.8399°N	44.3777°W
63	61	21-Mar-2001	22:12	7.0180°N	44.8106°W
64 22-Mar-2001 03:06 7.3728°N 45.6748°W 65 22-Mar-2001 04:57 7.5065°N 45.9990°W 66 22-Mar-2001 07:05 7.6580°N 46.3681°W 67 22-Mar-2001 09:00 7.7906°N 46.6937°W 68 22-Mar-2001 10:51 7.9216°N 47.0108°W 69 22-Mar-2001 15:03 8.2139°N 47.7282°W 70 22-Mar-2001 15:03 8.2139°N 47.7282°W 71 22-Mar-2001 16:40 8.3274°N 48.0087°W 72 22-Mar-2001 18:31 8.4623°N 48.3384°W 73 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 20:15 8.7366°N 49.0093°W 75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 00:01 8.8688°N 49.3317°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 07:22 9.4193°N 50.4455°W 79 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 11:26 9.7095°N 51.3804°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.9963°N 52.3300°W 85 23-Mar-2001 17:03 10.9963°N 52.3300°W 86 23-Mar-2001 17:03 10.9963°N 52.3300°W 87 23-Mar-2001 23:01 10.510°N 53.3488°W 88 23-Mar-2001 23:01 10.510°N 53.3488°W 89 24-Mar-2001 00:51 10.6963°N 53.36666°W 90 24-Mar-2001 00:51 10.6302°N 53.36666°W 91 24-Mar-2001 00:447 10.9633°N 54.9380°W 92 24-Mar-2001 04:47 10.9633°N 54.9880°W	62	21-Mar-2001	23:53	7.1412°N	45.1105°W
65 22-Mar-2001 04:57 7.5065°N 45.9990°W 66 22-Mar-2001 07:05 7.6580°N 46.3681°W 67 22-Mar-2001 09:00 7.7906°N 46.6937°W 68 22-Mar-2001 10:51 7.9216°N 47.0108°W 69 22-Mar-2001 15:03 8.2139°N 47.7282°W 70 22-Mar-2001 16:40 8.3274°N 48.0087°W 71 22-Mar-2001 18:31 8.4623°N 48.3384°W 73 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 20:21 8.7366°N 49.0093°W 75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 11:26 9.7095°N 51.3804°W 81 23-Mar-2001 15:02 9.9596°N 51.0003°W 82 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:01 10.5100°N 53.3488°W 89 24-Mar-2001 00:40 10.7753°N 54.6639°W 90 24-Mar-2001 00:47 10.9633°N 54.3917°W 91 24-Mar-2001 00:47 10.9633°N 54.9980°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	63	22-Mar-2001	01:16	7.2423°N	45.3529°W
66 22-Mar-2001 07:05 7.6580°N 46.3681°W 67 22-Mar-2001 09:00 7.7906°N 46.6937°W 68 22-Mar-2001 10:51 7.9216°N 47.0108°W 69 22-Mar-2001 15:03 8.2139°N 47.7282°W 70 22-Mar-2001 16:40 8.3274°N 48.0087°W 71 22-Mar-2001 18:31 8.4623°N 48.3384°W 72 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 22:15 8.7366°N 49.0093°W 75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 07:22 9.4193°N 50.6797°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 19:04 10.2325°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:01 10.5100°N 53.3488°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 00:447 10.9633°N 54.9910°W 91 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	64	22-Mar-2001	03:06	7.3728°N	45.6748°W
67 22-Mar-2001 09:00 7.7906°N 46.6937°W 68 22-Mar-2001 10:51 7.9216°N 47.0108°W 69 22-Mar-2001 12:48 8.0615°N 47.3524°W 70 22-Mar-2001 15:03 8.2139°N 47.7282°W 71 22-Mar-2001 16:40 8.3274°N 48.0087°W 72 22-Mar-2001 18:31 8.4623°N 48.3384°W 73 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 22:15 8.7366°N 49.0093°W 75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 07:22 9.4193°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 11:26 9.7095°N 51.3804°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 15:02 9.9596°N 51.9940°W 85 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 17:03 10.0963°N 53.3488°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:01 10.5100°N 53.3488°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 00:447 10.9633°N 54.3917°W 91 24-Mar-2001 00:447 10.9633°N 54.3917°W 92 24-Mar-2001 00:55 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	65	22-Mar-2001	04:57	7.5065°N	45.9990°W
68 22-Mar-2001 10:51 7.9216°N 47.0108°W 69 22-Mar-2001 12:48 8.0615°N 47.3524°W 70 22-Mar-2001 15:03 8.2139°N 47.7282°W 71 22-Mar-2001 16:40 8.3274°N 48.0087°W 72 22-Mar-2001 18:31 8.4623°N 48.3384°W 73 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 22:15 8.7366°N 49.0093°W 75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 15:02 9.9596°N 51.9940°W 85 23-Mar-2001 17:03 10.0963°N 52.3300°W 86 23-Mar-2001 17:03 10.2325°N 52.6651°W 87 23-Mar-2001 19:04 10.2325°N 52.6651°W 88 23-Mar-2001 23:01 10.5100°N 53.3488°W 89 24-Mar-2001 00:51 10.6392°N 53.3666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	66	22-Mar-2001	07:05	7.6580°N	46.3681°W
69 22-Mar-2001 12:48 8.0615°N 47.3524°W 70 22-Mar-2001 15:03 8.2139°N 47.7282°W 71 22-Mar-2001 16:40 8.3274°N 48.0087°W 72 22-Mar-2001 18:31 8.4623°N 48.3384°W 73 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 22:15 8.7366°N 49.0093°W 75 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.36666°W 90 24-Mar-2001 00:51 10.6392°N 53.36666°W 90 24-Mar-2001 04:47 10.9633°N 54.3917°W 91 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	67	22-Mar-2001	09:00	7.7906°N	46.6937°W
70 22-Mar-2001 15:03 8.2139°N 47.7282°W 71 22-Mar-2001 16:40 8.3274°N 48.0087°W 72 22-Mar-2001 18:31 8.4623°N 48.3384°W 73 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 22:15 8.7366°N 49.0093°W 75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 11:26 9.7095°N 51.3804°W 81 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 <td>68</td> <td>22-Mar-2001</td> <td>10:51</td> <td>7.9216°N</td> <td>47.0108°W</td>	68	22-Mar-2001	10:51	7.9216°N	47.0108°W
71 22-Mar-2001 16:40 8.3274°N 48.0087°W 72 22-Mar-2001 18:31 8.4623°N 48.3384°W 73 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 22:15 8.7366°N 49.0093°W 75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 <td>69</td> <td>22-Mar-2001</td> <td>12:48</td> <td>8.0615°N</td> <td>47.3524°W</td>	69	22-Mar-2001	12:48	8.0615°N	47.3524°W
72 22-Mar-2001 18:31 8.4623°N 48.3384°W 73 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 22:15 8.7366°N 49.0093°W 75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 00:51 10.6392°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	70	22-Mar-2001	15:03	8.2139°N	47.7282°W
73 22-Mar-2001 20:23 8.5993°N 48.6727°W 74 22-Mar-2001 22:15 8.7366°N 49.0093°W 75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	71	22-Mar-2001	16:40	8.3274°N	48.0087°W
74 22-Mar-2001 22:15 8.7366°N 49.0093°W 75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	72	22-Mar-2001	18:31	8.4623°N	48.3384°W
75 23-Mar-2001 00:01 8.8688°N 49.3317°W 76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.6666°W 90 24-Mar-2001 00:51 10.6392°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	73	22-Mar-2001	20:23	8.5993°N	48.6727°W
76 23-Mar-2001 01:51 9.0051°N 49.6641°W 77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	74	22-Mar-2001	22:15	8.7366°N	49.0093°W
77 23-Mar-2001 03:48 9.1510°N 50.0265°W 78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	75	23-Mar-2001	00:01	8.8688°N	49.3317°W
78 23-Mar-2001 06:06 9.3237°N 50.4455°W 79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.6666°W 90 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	76	23-Mar-2001	01:51	9.0051°N	49.6641°W
79 23-Mar-2001 07:22 9.4193°N 50.6797°W 80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.6666°W 90 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	77	23-Mar-2001	03:48	9.1510°N	50.0265°W
80 23-Mar-2001 09:14 9.5518°N 51.0003°W 81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	78	23-Mar-2001	06:06	9.3237°N	50.4455°W
81 23-Mar-2001 11:26 9.7095°N 51.3804°W 82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	79	23-Mar-2001	07:22	9.4193°N	50.6797°W
82 23-Mar-2001 13:18 9.8403°N 51.7011°W 83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	80	23-Mar-2001	09:14	9.5518°N	51.0003°W
83 23-Mar-2001 15:02 9.9596°N 51.9940°W 84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	81	23-Mar-2001	11:26	9.7095°N	51.3804°W
84 23-Mar-2001 17:03 10.0963°N 52.3300°W 85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	82	23-Mar-2001	13:18	9.8403°N	51.7011°W
85 23-Mar-2001 19:04 10.2325°N 52.6651°W 86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	83	23-Mar-2001	15:02	9.9596°N	51.9940°W
86 23-Mar-2001 21:13 10.3839°N 53.0373°W 87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	84	23-Mar-2001	17:03	10.0963°N	52.3300°W
87 23-Mar-2001 23:01 10.5100°N 53.3488°W 88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	85	23-Mar-2001		10.2325°N	52.6651°W
88 23-Mar-2001 23:04 10.5132°N 53.3573°W 89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W		23-Mar-2001		10.3839°N	53.0373°W
89 24-Mar-2001 00:51 10.6392°N 53.6666°W 90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	87	23-Mar-2001	23:01	10.5100°N	53.3488°W
90 24-Mar-2001 02:40 10.7753°N 54.0015°W 91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W					
91 24-Mar-2001 04:47 10.9633°N 54.3917°W 92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W	89	24-Mar-2001		10.6392°N	53.6666°W
92 24-Mar-2001 06:15 11.0731°N 54.6639°W 93 24-Mar-2001 07:59 11.2027°N 54.9880°W		24-Mar-2001		10.7753°N	54.0015°W
93 24-Mar-2001 07:59 11.2027°N 54.9880°W	91	24-Mar-2001	04:47	10.9633°N	54.3917°W
	92	24-Mar-2001	06:15	11.0731°N	54.6639°W
94 24-Mar-2001 10:11 11.3479°N 55.3312°W	93	24-Mar-2001	07:59	11.2027°N	54.9880°W
	94	24-Mar-2001	10:11	11.3479°N	55.3312°W

Table 3: PALACE floats deployed

SOLO S/N	Date	Time (UTC)	Latitude	Longitude	at CTD
1152	7-Mar-2001	13:16	0°0.295'S	35°0.458'W	6
1141	10-Mar-2001	22:55	6°59.560'N	35°0.700'W	38
1131	21-Mar-2001	11:02	6°01.070'N	43°59.610'W	97
1156	23-Mar-2001	09:17	9°33.1142'N	51°0.0234'W	-
1173	24-Mar-2001	08:05	11°12.634'N	54°59.896'W	-

Table 4: Drifters deployed

ARGOS id	Date	Time (UTC)	Latitude	Longitude	at CTD
29219	7-Mar-2001	13:16	0°0.295'S	35°0.458'W	6
29157	10-Mar-2001	0:20	4°41.775'N	35°0.142'W	31
29217	10-Mar-2001	23:00	6°59.500'N	35°0.700'W	38
29218	16-Mar-2001	23:46	2°00.500'N	41°00.300'W	71
29156	18-Mar-2001	16:30	6°20.369'N	41°00.777'W	84
29158	19-Mar-2001	17:30	6°41.600'N	43°59.700'W	99