



**DATA BUOY CO-OPERATION PANEL**

**Surface Velocity Programme**

**Joint Workshop on SVP Barometer  
Drifter Evaluation**

New Orleans, USA, May 1995



**DATA BUOY CO-OPERATION PANEL /  
SCRIPPS INSTITUTE OF OCEANOGRAPHY**

**JOINT WORKSHOP ON  
SVP BAROMETER DRIFTER EVALUATION**

**New Orleans, LA, USA, 9-10 May 1995**

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## **NOTE**

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## **1.0 PURPOSE OF MEETING**

The first DBCP/SIO workshop on SVP barometer drifters was held in May 1993 at the Scripps Institute of Oceanography for the purpose of evaluating the performance of the newly designed barometer drifter. Since then, several design modifications have been implemented, a sufficient number of barometer drifters have been deployed for field tests, and a limited amount of data analysis has been performed on the resultant records.

This second DBCP/SIO workshop was convened to appraise the effects of the design modifications, in part by using the data analysis. The meeting was attended by those interested in drifter design, manufacture, purchase, deployment, and results. The participants are listed in Appendix 1.

### **1.1 Opening**

The meeting was called to order by the Chairman of the Data Buoy Cooperation Panel Mr. Derek Painting at 0940 on May 9, 1995 (severe weather caused a late start). The Chairman welcomed all participants, reiterated the purpose and desired outcome of the meeting, and read the agenda, which is attached as Appendix 2. It was noted that the meeting was recognized by the WMO as the first meeting of this technical sub-group of the DBCP. After introductions, the meeting heard the reports from the various representatives.

## **2.0 REPORTS ON BAROMETER DRIFTER DEPLOYMENTS AND DATA COLLECTION**

### **2.1 Australia**

No representative was present from Australia. The Australian report had been provided to, and was read by, the technical co-ordinator to the DBCP Mr. Etienne Charpentier. It is attached as Appendix 3. The Australian report details mixed success with SVP-B style drifters manufactured by TURO. They have recently purchased three new TURO drifters which incorporate several design improvements; better SST sensor thermal coupling, use of standard holey sock drogue, surface float internal package foamed in place, desiccant in line with the pressure sensor, and a salt tablet drogue release mechanism. They also state that they are considering the use of a new Vaisala PTB100 sensor rather than the AIR pressure sensor, in the hope of improving reliability and reducing costs. Australia has also purchased a Metocean SVP-B drifter for evaluation.

Australia deployed two of these TURO drifters and the Metocean drifter in April 1995, and reports that one of the TURO drifters exhibited erratic pressure data immediately after deployment. The remaining two appeared to be operating satisfactorily.

### **2.2 France**

The extensive report from France provides information on five Technocean drifters received in August 1994. It is attached as Appendix 4, and it includes the drifter trajectories and a comparison of the resultant barometric pressure data with model data. The comparison shows favorable results initially which degrade after approximately 2-3 months. The French report notes a preponderance of Class 0 position fixes after deployment with a return to higher class fixes after drifter recovery. In the case of drifter 14423, Class 0 positions were obtained over 98% of the time while deployed, but after recovery this rate dropped to 25%. They also describe a possible temperature sensitivity in two of the barometric pressure sensors, and include a table detailing survival rates for

the five Technocean drifters and four earlier deployments of prototype SVP-B drifters built by the Global Drifter Center at Scripps.

A second portion of this report compares the percentage of barometric pressure observations from drifting buoys to the total number of observations available (drifting buoy plus ship observations). The comparison is done for the month of August 1994 and again for March 1995, revealing sharp increases in the Atlantic Southern Ocean as a result of South African and USA deployments there. These two figures are attached as Appendix 7.

### **2.3 South Africa**

South Africa reported deploying twenty Metocean SVP-B drifters beginning in September 1994, and say they have not noticed an abundance of Class 0 fixes. They point out that these twenty drifters were fabricated with electronic components having a wider operational temperature specification of  $-5^{\circ}$  to  $40^{\circ}\text{C}$ . Eighteen of these drifters appear to continue providing high quality data through April 1995 when compared to model data (see DBCP report below).

### **2.4 United Kingdom**

The United Kingdom reports they have received and performed calibration checks on five Technocean SVP-B drifters. Two were deployed in late April 1995, and the brief resultant barometric pressure records are included in their report attached as Appendix 5. The report also contains the predeployment calibration data for these five drifters. A discussion was heard regarding the various methods used to terminate the pressure port tubing, concluding that over-tightening of nylon fittings and retermination of Swagelok fittings on Teflon tubing may cause leakage problems.

### **2.5 DBCP**

A comprehensive comparison of SVP-B barometer data with four different atmospheric models was provided by the technical co-ordinator of the DBCP, and may be found herein as Appendix 6. Monthly statistics for forty-two SVP-B drifters from four different manufacturers were generated using the first guess fields from the ECMWF, UKMO, NOAA/NMC, and Meteo-France models. The total number of drifter-months available for comparison varied for each of the models, and ranged from 163 to 229. In the case of the ECMWF, UKMO, and NOAA/NMC models, approximately 90% of the monthly mean biases are 1.0 hPa or less, and about 90% of the RMS differences are 2.5 hPa or less. The comparison is less favorable with the Meteo-France model, where these percentages drop to slightly better than 50%.

### **2.6 USA**

The USA reported deployment of 57 SVP-B drifters recently, primarily in two groups of air deployments. The first air deployment of 23 drifters occurred during September 1994 in the Atlantic Southern Ocean, and the second group of 19 occurred during late March 1995 in the Indian Southern Ocean. The remainder were deployed by research vessels; nine in the Indian Southern Ocean, and six in the Drake Passage. The US report, attached as Appendix 8, begins with trajectory and barometric pressure time series plots for three of these Drake Passage drifters. The three drifters operated for 8 days aboard the ship prior to deployment, and the deployments are clearly visible on days 20 and 21 of the time series plot. Charts of all SVP-B drifter locations and trajectories by two week displacement vectors are also found in the US report.



The US reports that the air deployments were highly successful, showing no increase in the frequency of failure upon deployment, and that they are quite useful for widespread array formations in remote areas. The primary disadvantage of the air deployments is cost. In addition to aircraft cost, which were diminished by sharing the mission of the flights, each SVP-B drifter was fitted with a \$600.00 air delivery system.

Of the 57 deployed drifters, 28 had been requested to be placed on GTS; the remainder had only recently been deployed, and two failed upon deployment. Of the 28 placed on GTS, 10 had been requested to have air pressure removed from GTS after deployment periods ranging from 2 to 7 months, due to large bias or high standard deviations in comparison to the models.

The U.S. also notes a significantly higher incidence of Class 0 position fixes for SVP-B drifters in comparison to the standard SVP drifter, with approximately 40% of the SVP-B drifter positions falling into this class.

### **3.0 TECHNICAL PROGRESS IN RESOLUTION OF TRANSMITTER/CONTROLLER PROBLEM**

#### **3.1 Controller reset**

In a few of the first SVP-B drifters, a transmitter controller fault had created a reset problem and a consequent loss of data. The problem has been corrected, and has not been seen in any recently manufactured drifters.

#### **3.2 Oscillator stability**

A question of oscillator stability in the Telonics ST-13 board remains unresolved. The problem arose during the September 1994 U.S. air deployment when Argos reported high CI indexes for several of those drifters. A group of ST-13 boards from the same batch were returned to Telonics by SVP-B manufacturers, and one was found to have an unstable oscillator, but the problem has not yet been traced to any particular failed component.

### **4.0 DRIFTER RECOVERY**

#### **4.1 Recovered drifters**

Several SVP-B drifters deployed by the French were recovered after 5 months at sea. Slides and photographs indicated little biofouling, but showed that one of the drifters had admitted a small amount of seawater. Corrosion and imminent battery failure were evident.

#### **4.2 Recovery plans**

A request to participate on a not-to-interfere basis in the ACE cruise aboard the NOAA ship DISCOVERER was made by the GDC at AOML. The cruise plan has the ship operating in the Southern Ocean south of Tasmania in late 1995. It was recognized at the start that only fortuitous recoveries would be possible, and not highly probable. The request was rejected by the Chief Scientists on that series of cruises.

The same request explained the need for drifter recovery, noting that a dedicated cruise was needed due to the difficulties encountered in locating the drifters. It requested

sufficient NOAA ship time in 1996/1997 to guarantee the recovery of several Southern Ocean drifters, and this request is still pending.

South Africa also reported plans to attempt drifter recovery in September 1995. They requested the use of a Scripps Telonics RDF receiver for that effort, which was granted.

## **5.0 NEW DEVELOPMENTS**

### **5.1 Wind/rain sensors**

Scripps reports that wind and rain sensor developmental efforts continue, and they have been funded by ONR to deploy prototype wind sensing drifters in the fall of 1996 and again in early 1997 in the Labrador Sea. The Wind Observation Through Ambient Noise (WOTAN) sensors use a hydrophone to observe noise levels which are correlated with wind speed. Wind direction will be obtained from a vane mounted on the barometer port mast and a compass in the surface float. A discussion was had on the difficulties involved in obtaining accurate wind observations. It is hoped that the use of intelligent algorithms on board the drifter can accomplish the task. The rain sensor is essentially the same hydrophone utilizing another algorithm. The development of this sensor will follow the wind sensor.

### **5.2 Minimet drifter**

There is also a desire to package as many sensors as have proven themselves into a smaller drifter, reducing fabrication and shipping costs and making deployments easier. Scripps intends to pursue the design of such a device, and several experimental modifications to the drogue, tether, and subsurface float which result in a smaller package are planned for construction in the fall of 1995.

An air temperature sensor on such a drifter is highly desirable, but difficult to achieve given the close proximity to the sea surface. Clearwater Instrumentation has built drifters with experimental air temperature sensors which have been tested with limited success at the U.S. Naval Postgraduate School.

## **6.0 TECHNICAL CONCERNS AND RECOMMENDATIONS**

### **6.1 Despiking algorithm**

Modifications to the despiking algorithm, recommended at the first evaluation meeting, appear to have been very successful, and there is no longer a problem in this regard. The present algorithm computes the mean of the 20 lowest of 80 samples (taken at 1 Hz), discards any of the 80 samples greater than 1 hPa above that mean, and then transmits the median of the remaining values.

### **6.2 Packaging**

A discussion of the improvements to the packaging since the previous meeting lead to additional suggestions to ensure that the drifters are capable of surviving a 20 meter fall, which can be encountered during deployment from some VOS ships. It was suggested that trials be conducted in which the honeycomb box now surrounding the surface float be attached to the drogue, allowing the drogue to buffer the impact. The use

of biodegradable materials was also strongly encouraged, minimizing or eliminating any plastics used for shipping.

### **6.3 Moisture control**

The question of moisture reaching the pressure sensor continues. Desiccant packs used in NDBC TOGA drifters and in Metocean SVP-B drifters do not appear to degrade the performance of these instruments, although there is a concern regarding the necessary increase in the air back-up volume. It was concluded that the use of desiccants in the pressure port line should be further explored.

### **6.4 Message format**

The Data Assembly Center at AOML reports that the SVP-B data transmissions are very successful and that the data is approximately eight times redundant, making data processing and storage perhaps unnecessarily difficult. There was discussion regarding the possible reduction of data transmission by eliminating the unused redundant pressure sensor word and using two messages rather than four. Alternatively, the unused word could be used for transmission of additional sensor data such as a GPS receiver.

### **6.5 Benefits derived from SVP-B observations**

The workshop participants urged that statistics demonstrating the improvements to global atmospheric pressure observations be generated whenever possible. The drifter vs. ship comparison (Appendix 7.) done by France was pointed out as a prime example of the illustration needed to promote the SVP-B drifter.



**APPENDIX 1.**

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**APPENDIX 2.**

**AGENDA**

1. **OPENING**
2. **PROGRESS REPORTS ON RECENT BAROMETER DRIFTER DEPLOYMENTS - AUSTRALIA, FRANCE, SOUTH AFRICA, UNITED KINGDOM, USA**
3. **TECHNICAL PROGRESS IN RESOLUTION OF TRANSMITTER/CONTROL PROBLEM**
4. **STATE OF RECOVERED DRIFTERS**
5. **RECOVERY OF SOUTHERN OCEAN DRIFTERS**
6. **NEXT YEAR DEPLOYMENTS - WOCE ATLANTIC 1996-1997 REQUIREMENTS**
7. **TECHNICAL REQUIREMENTS AND RECOMMENDATIONS**
8. **REVIEW OF THE DRAFT SVP-B CONSTRUCTION MANUAL**
9. **CLOSURE**

### APPENDIX 3.

#### REPORT BY THE AUSTRALIAN BUREAU OF METEOROLOGY

1. Since the Tenth Session of the DBCP at La Jolla, the Australian Bureau of Meteorology, and the Antarctic Cooperative Research Center (CRC), have continued development and deployment of SVP barometer drifters on a small scale.

2. As previously reported, the Bureau deployed two TURO SVP-B style drifters, 56516 and 56517, off the north-west coast of Australia early in 1994 with mixed success. Buoy 56516 is currently still operating satisfactorily after 11 months, while buoy 56517 operated for only three months before being interfered with and removed by a fishing vessel. It was later recovered for examination. Both drifters reported dependable pressure data (note para 9), but they exhibited unnaturally large diurnal sea temperature variations, believed to be caused by poor thermal coupling of the SST sensor to the water.

3. The Antarctic CRC also had mixed success when it deployed TURO SVP-B style drifters in 1994. These buoys were deployed in the Antarctic sea ice zone, where temperatures extended below the reliable minimum for some components within the buoys. Buoy 56514 which was deployed in January operated for six months before failing in the sea ice. Then in early November 1994, two further CRC buoys were deployed, 73505 and 74531, the first failing after one month, and the second currently still reporting.

4. The Bureau has recently purchased three new TURO drifters, which incorporate several design improvements;

- standard holey sock drogue (previous buoys were fitted with weighted line),
- drogue tether attachment boss machined from bronze rather than stainless steel to improve SST sensor thermal coupling,
- expanding polyurethane foam added to hull to improve internal structural strength,
- self deployment mechanism fitted using salt tablet release,
- desiccant chamber fitted to pressure sensor inlet line.

The data transmitted by these drifters will be limited to pressure (10 bit), sea surface temperature (10 bit), battery (6 bit), drogue loss (5 bit) and leak detector (1 bit). At this stage of development, they will not report any additional historical data as does the standard WOCE SVP-B drifter.

5. The Turo design has several features which appeal to us. The calibration can be checked easily by switching from the normal data mode to a fast mode by the use of an extra magnetic switch. Deployment of the buoys is also expected to be facilitated by the harness and salt tablet release mechanism. The documentation provided is excellent. The buoys are available with hull sizes of 400, 500 and 700 mm.

6. The Bureau has had some varied experiences with AIR pressure sensors and is giving consideration to using the new Vaisala PTB100 sensor in future orders for the sake of reliability and to reduce costs.



7. Since the last meeting, the Bureau has purchased one SVP-B from Metocean for evaluation and comparison with the TURO buoys. The buoy transmits pressure, sea temperature and pressure measured three hours earlier.

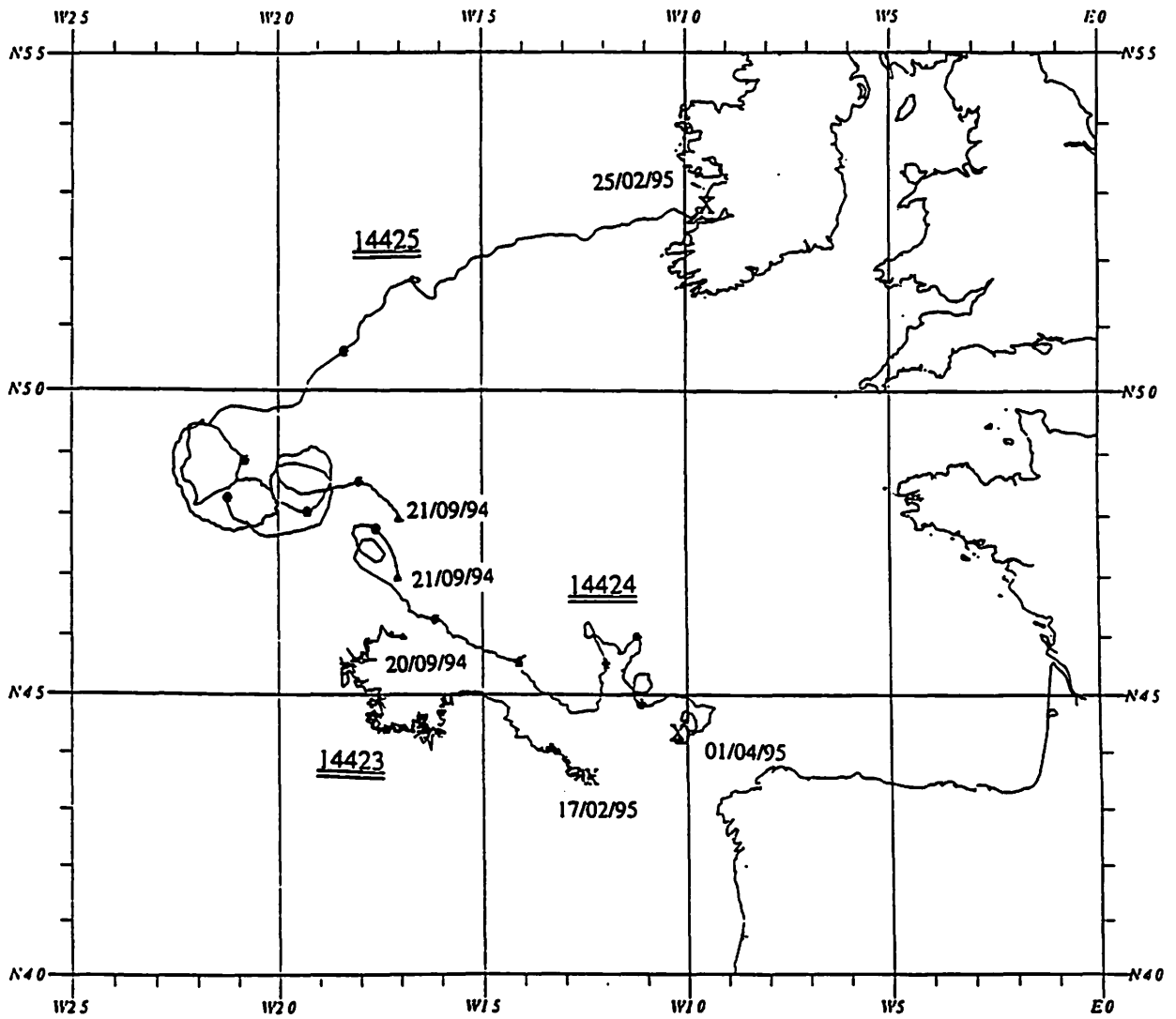
#### **Recent results**

8. In mid-April 1995, the Bureau deployed two of the new TURO SVP-B drifters. WMO 56521 was deployed at 50S 130E and 56522 at 55S 128E. The Metocean SVP-B, WMO 73506, was also deployed shortly after at 60S 117E.

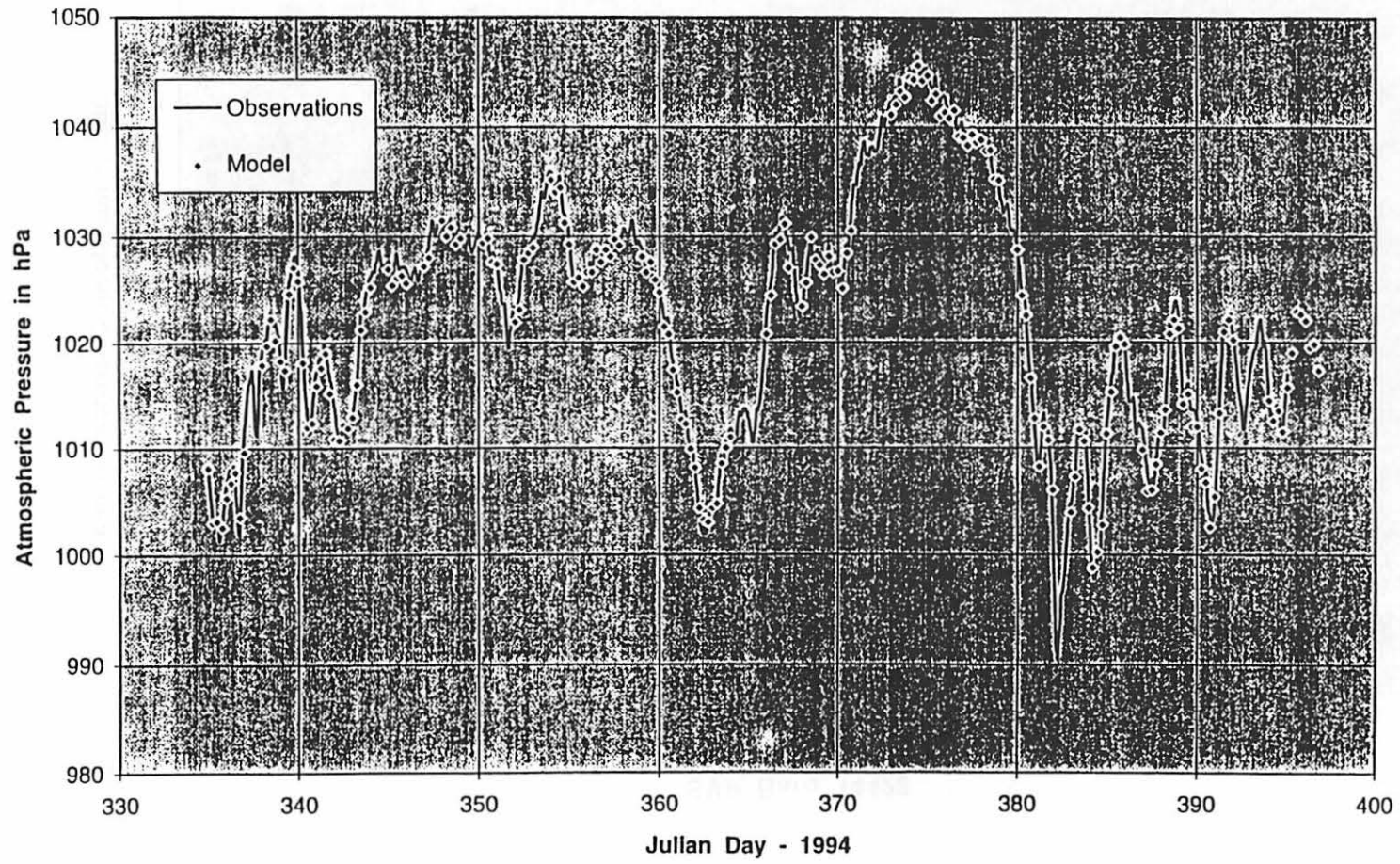
9. At 30th April both the Turo buoy 56521 and the Metocean buoy 73506 were operating satisfactorily. However, the other TURO buoy 56522 exhibited erratic pressure fluctuations immediately after deployment.

APPENDIX 4.

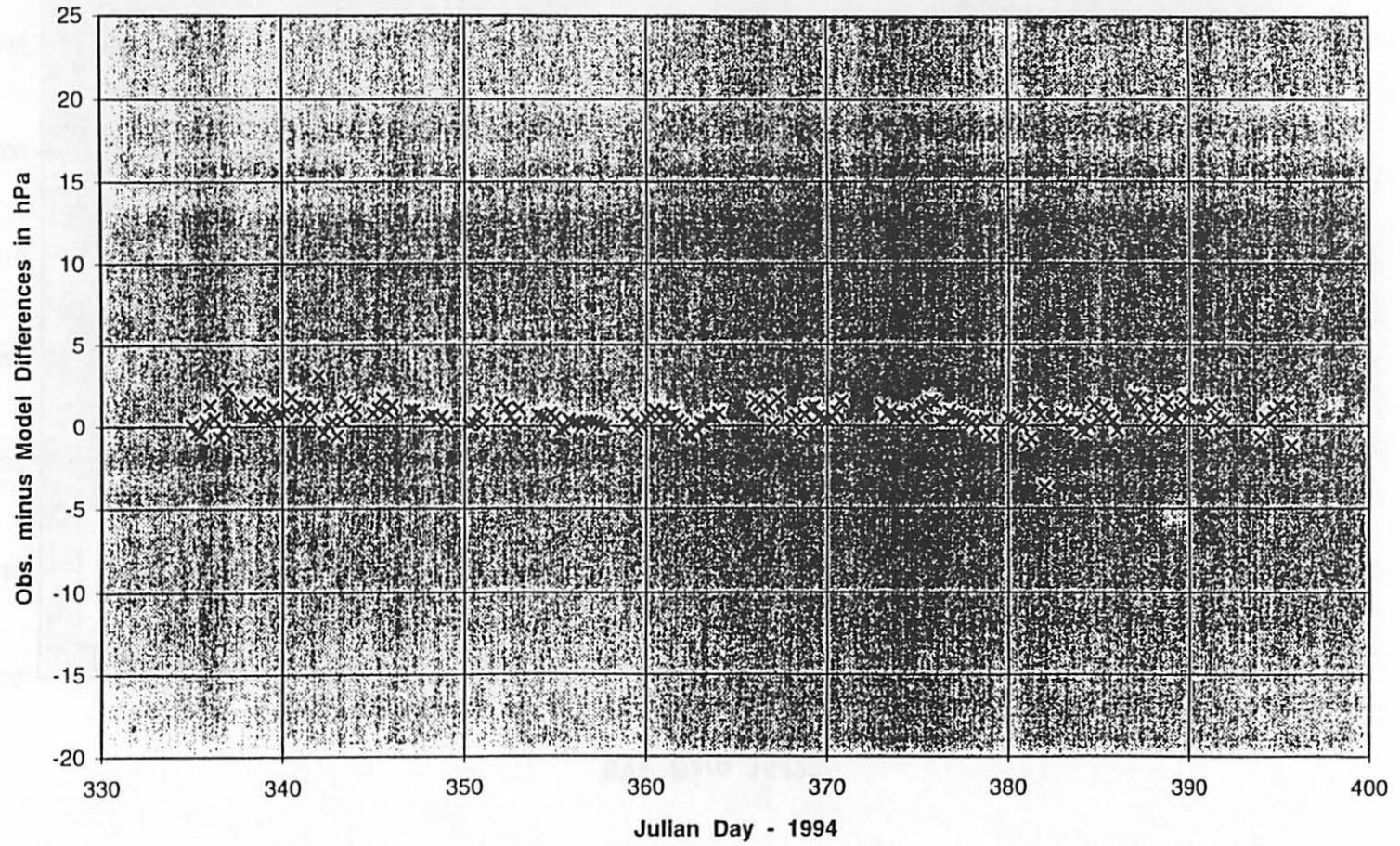
TRAJECTORIES SVP 14423 - 14424 - 14425



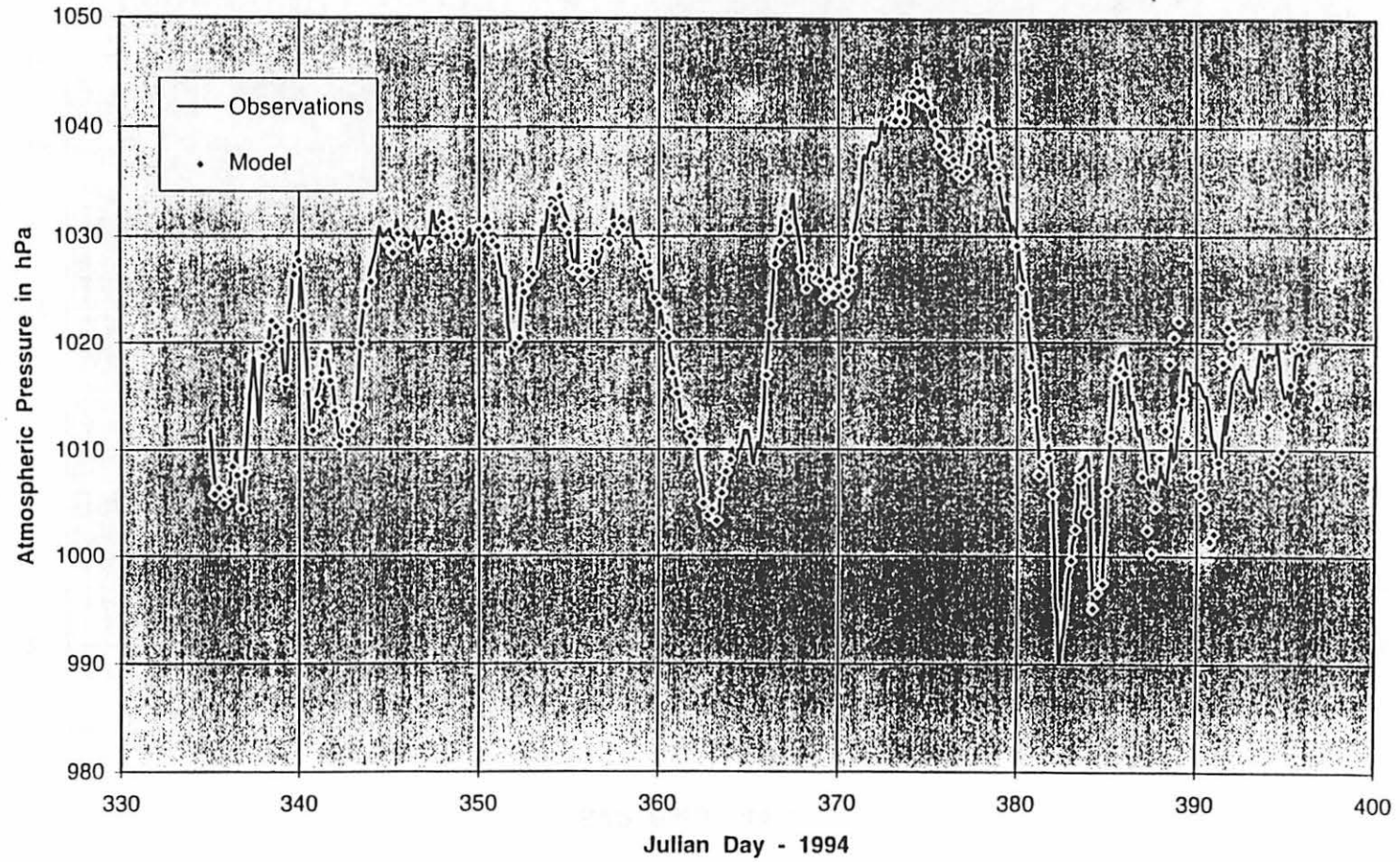
### SVP\_Baro 14423



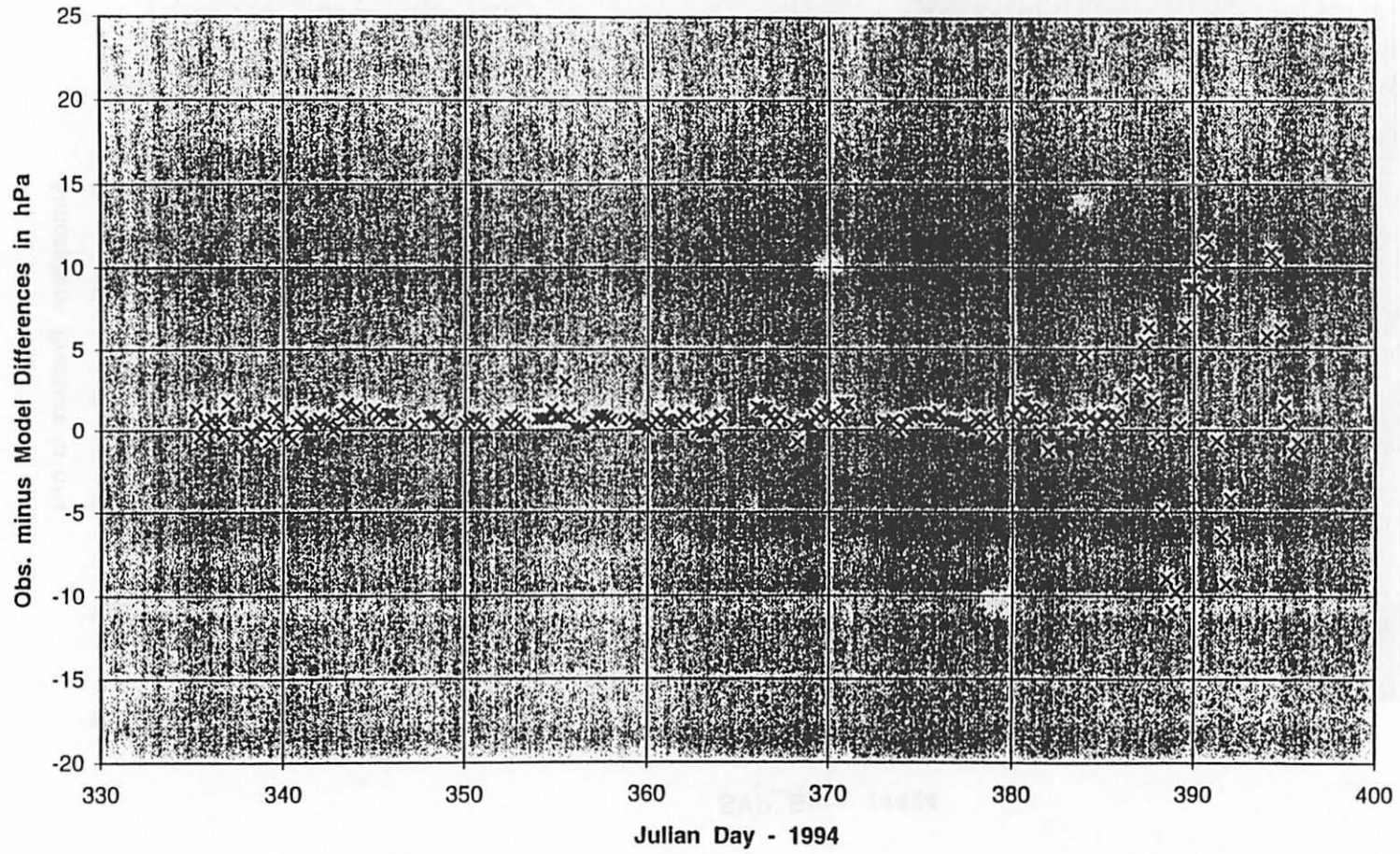
SVP\_Baro 14423



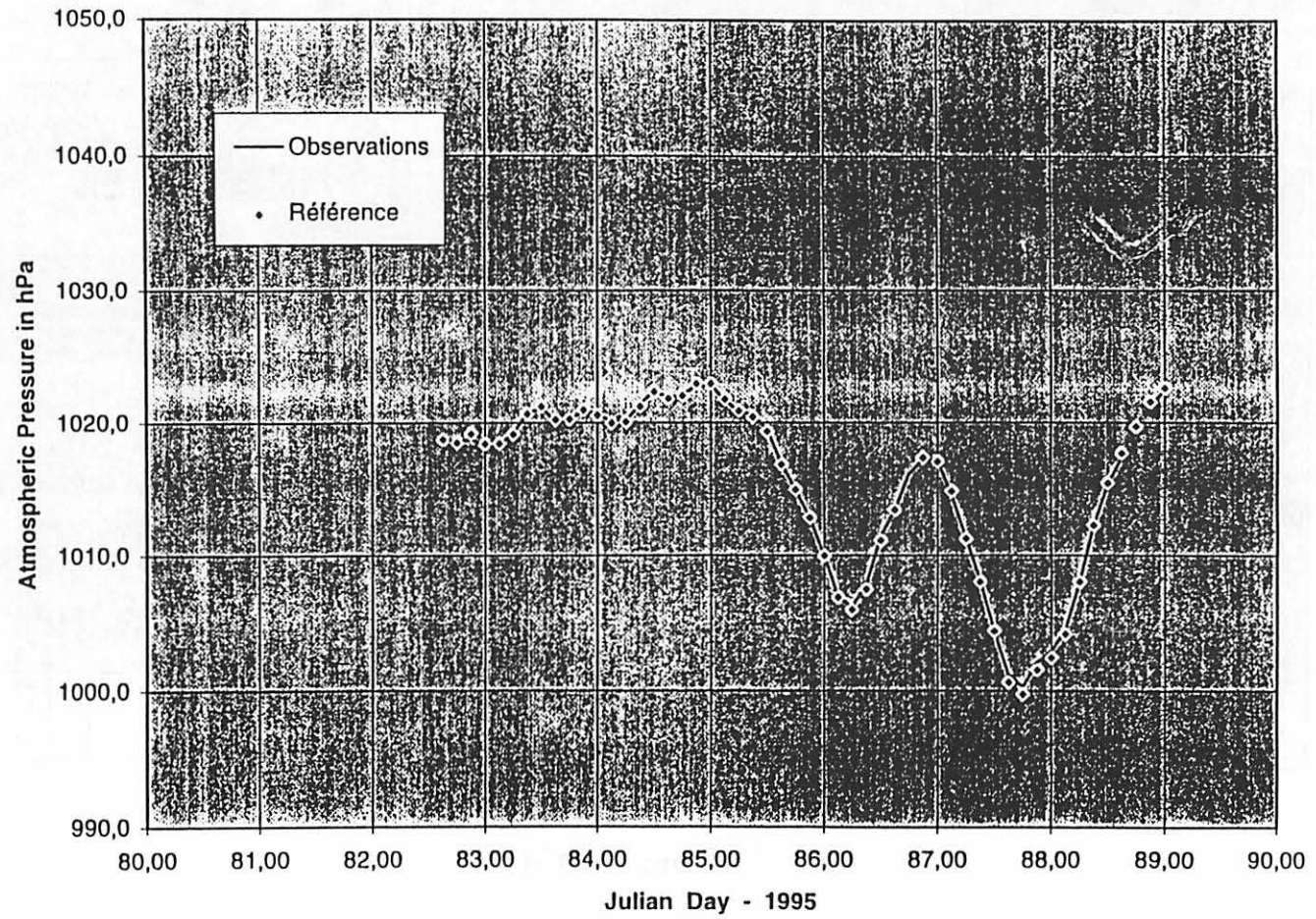
SVP\_Baro 14424



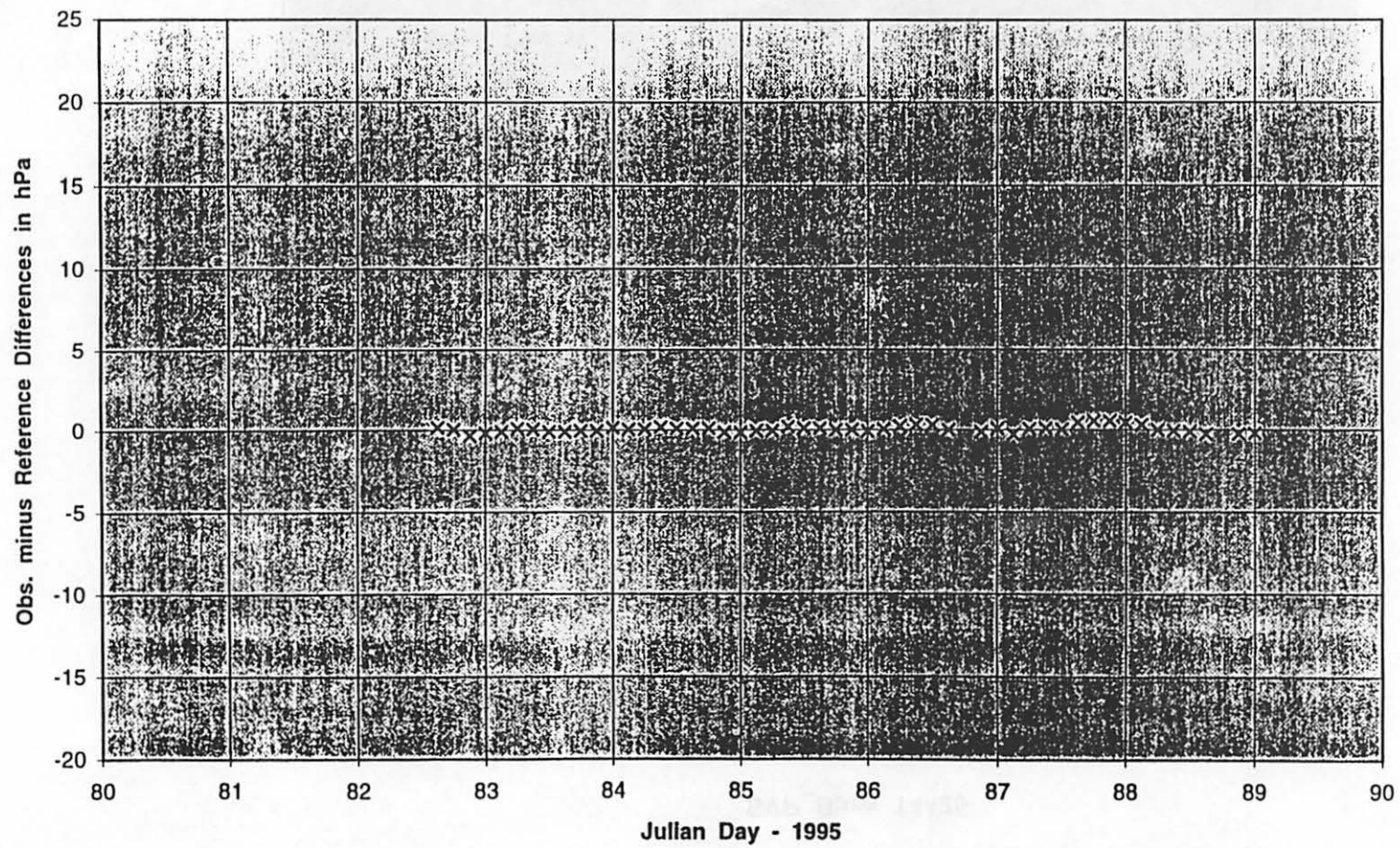
SVP\_Baro 14424



### SVP\_Baro 14425

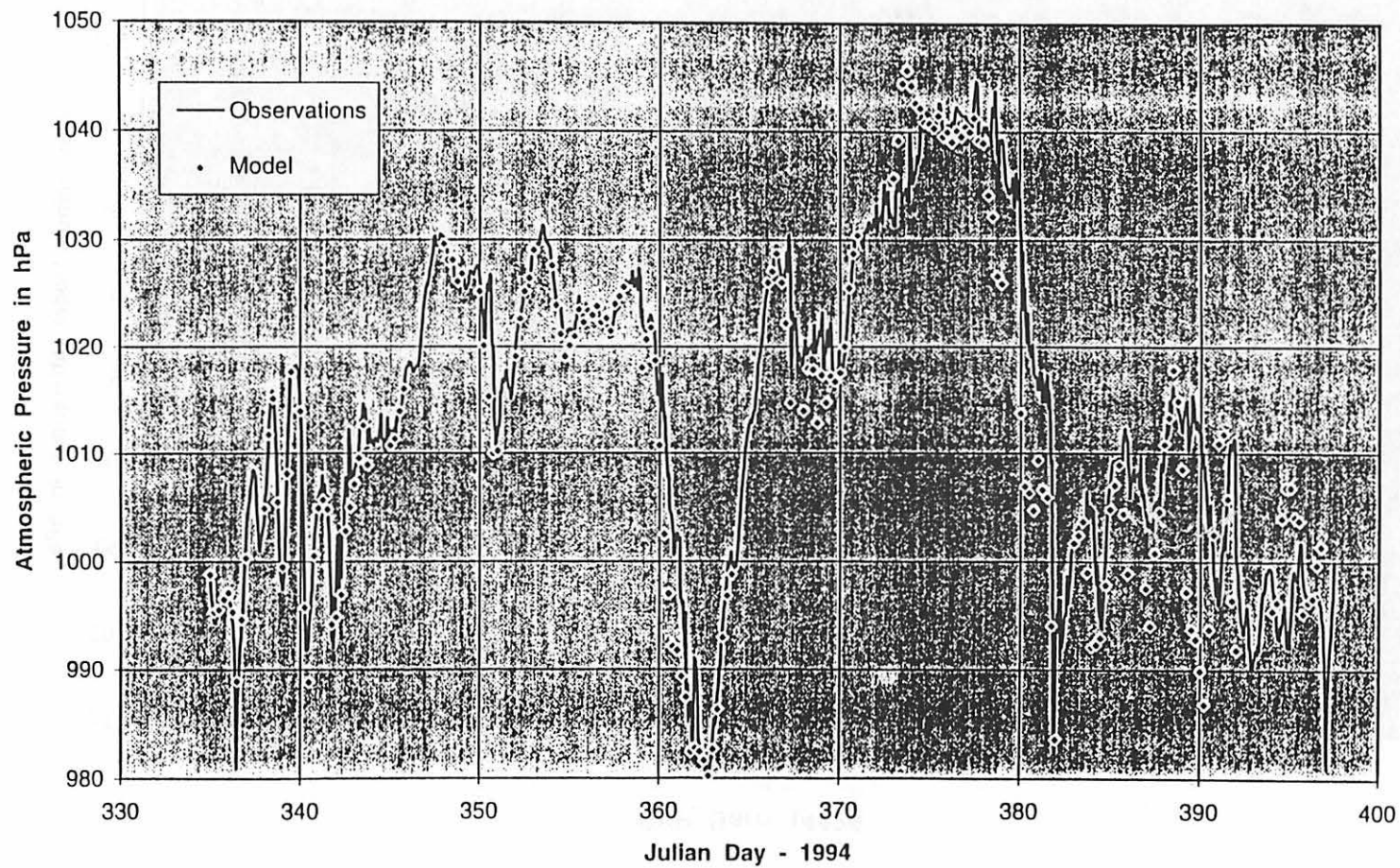


SVP\_Baro 14425

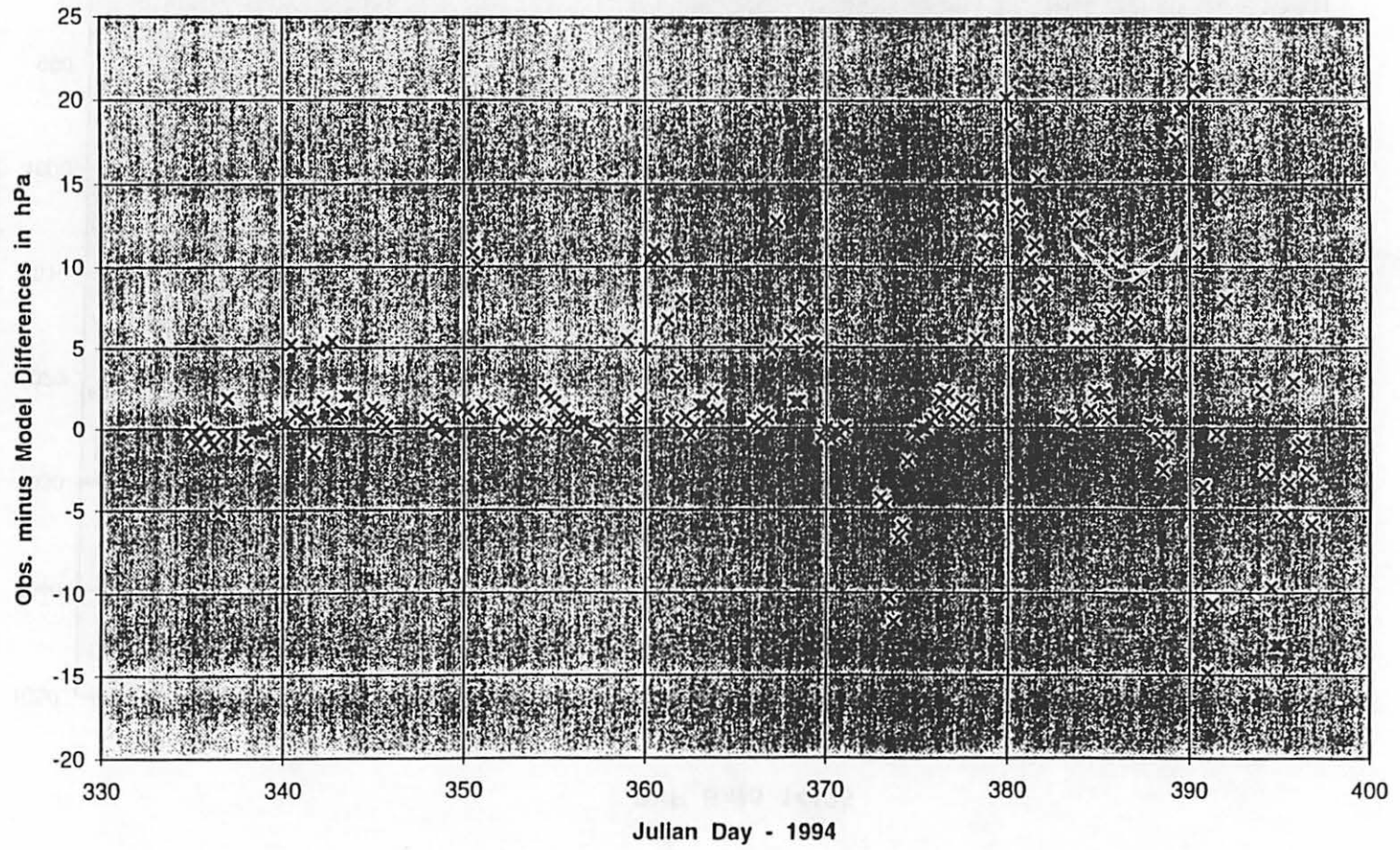




### SVP\_Baro 14425



SVP\_Baro 14425



## LOCATION PROBLEMS ON SVP BUOYS

Data from August 94 to February 95

5 SVP buoys arrived to CMM by end of August 1994 (Argos 14422 to 14426).  
 They were tested in Brest  
 To compare, the Marisonde B data (Argos 14417) are included in the following tables.

N° Argos	Cl. 1	Cl. 2	Cl. 3	Total
14422	35 31.8%	41 37.3%	34 30.9%	110
14423	12 54.6%	7 31.8%	3 13.6%	22
14424	8 36.4%	9 40.9%	5 22.7%	22
14425	10 55.5%	3 16.7%	5 27.8%	18
14426	61 48.8%	41 32.8%	23 18.4%	125
14417	21 55.3%	9 23.7%	8 21.0%	38

**Table I: tests**

Except the buoy 14422 and 14426 kept on ground, the total number of locations is not very high. Nevertheless all the buoys seem to be well located.

The problems happens when the buoys are at sea.

N° Argos	deployment date	recovery date
SVP 14423	20/09/94 (263)	17/02/95 (048)
SVP 14424	21/09/94 (264)	at sea
SVP 14425	21/09/94 (264)	25/02/95 (056)
MAR 14417	21/09/94 (264)	23/02/95 (054)

**Table II: deployment and recovery dates**

After deployment at sea, the first location of 14423 buoy was obtained after asking Class 0 location at CLS ARGOS

As we received few daily locations from the 14424 float, we asked class 0 on 16/02/95 (047).

N° Argos	Cl. 0	Cl. 1	Cl. 2	Cl. 3	Total
14423	1478 98.5%	18 1.2%	3 0.2%	2 0.1%	1501
14424		343 85.5%	47 11.8%	11 2.7%	401
14424 **	97 72.4%	32 23.9%	3 2.2%	2 1.5%	134
14425		964 70.6%	317 23.2%	84 6.2%	1365
14417		1012 64.7%	467 29.9%	85 5.4%	1564

**Table III: class location**

N° Argos	Daily location
14423	10.0
14424	2.7
14424 **	10.3
14425	8.7
14417	10.1

**Table IV: Daily location**

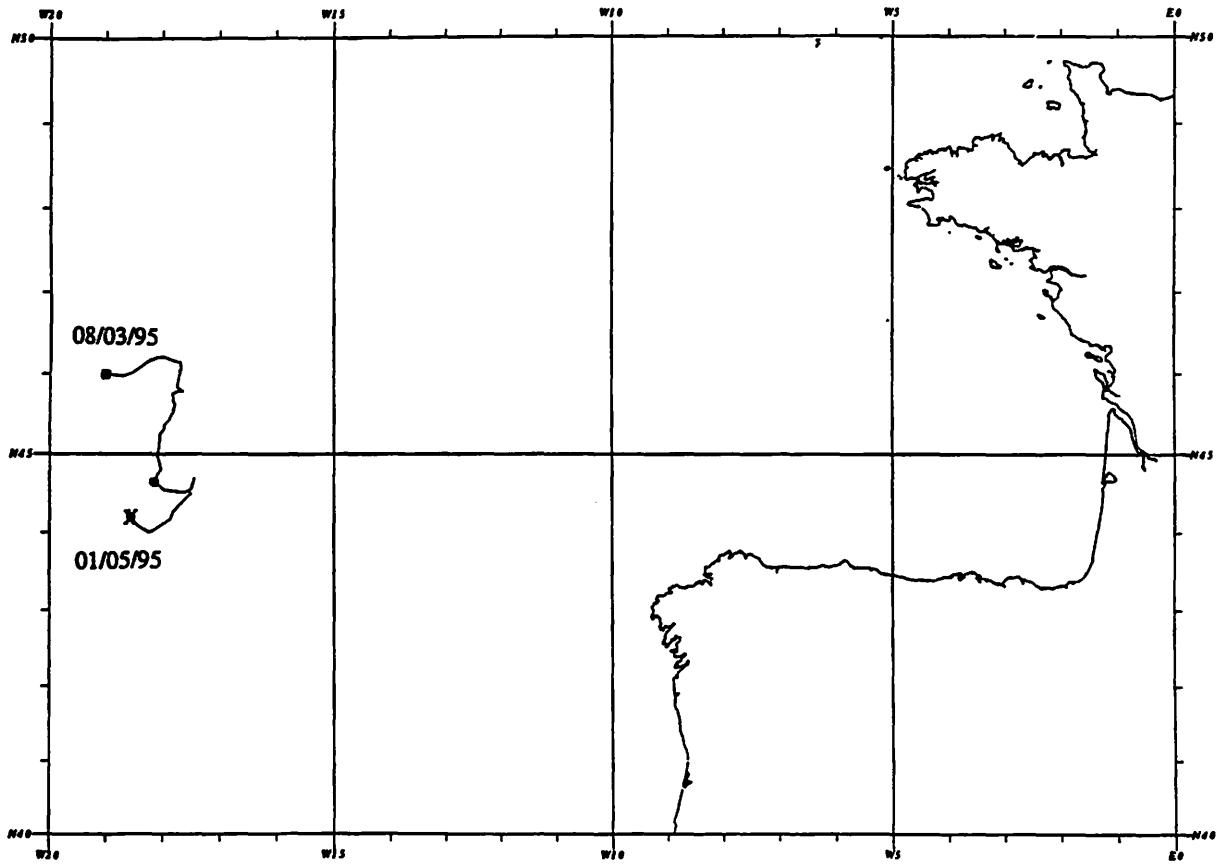
As soon we recoverd SVP 14423, the locations were good again.

N° Argos	Cl. 0	Cl. 1	Cl. 2	Cl. 3	Total
14423	9 24.3%	11 29.7%	12 32.5%	5 13.5%	37

14423	48.355N	4.554W	1	089/0028Z-088/2030
14423	48.359N	4.561W	3	089/0353Z-089/0352
14423	48.359N	4.558W	3	089/0846Z-089/0846
14423	48.376N	4.559W	1	089/1202Z-089/1201
14423	48.358N	4.572W	2	089/1341Z-089/1339
14423	48.359N	4.567W	2	089/1833Z-089/1828
14423	48.359N	4.561W	3	089/1958Z-089/1958
14423	48.360N	4.564W	3	089/2012Z-089/2010
14423	48.360N	4.563W	3	089/2137Z-089/2137
14423	48.359N	4.565W	3	090/0344Z-090/0340
14423	48.361N	4.569W	2	090/0823Z-090/0820
14423	48.358N	4.556W	1	090/1137Z-090/1135
14423	48.356N	4.575W	1	090/1333Z-090/1331
14423	48.362N	4.558W	1	090/1807Z-090/1808
14423	48.360N	4.558W	2	090/1951Z-090/1951
14423	48.360N	4.560W	3	090/2129Z-090/2125
14423	48.360N	4.558W	3	091/0330Z-091/0328
14423	48.356N	4.545W	2	091/0802Z-091/0802
14423	48.357N	4.557W	2	091/0939Z-091/0938
14423	48.358N	4.558W	3	091/1124Z-091/1121
14423	48.360N	4.556W	3	091/1928Z-091/1927
14423	48.359N	4.557W	3	091/2116Z-091/2113
14423	48.360N	4.561W	3	092/0318Z-092/0318
14423	48.360N	4.561W	1	092/0456Z-092/0455
14423	48.357N	4.554W	3	092/0931Z-092/0931
14423	48.358N	4.558W	3	092/1112Z-092/1109
14423	48.362N	4.551W	2	092/1311Z-092/1308
14423	48.360N	4.555W	3	092/1451Z-092/1449
14423	48.360N	4.553W	3	092/1908Z-092/1905
14423	48.359N	4.552W	2	093/0129Z-093/0128
14423	48.358N	4.558W	1	093/0446Z-093/0445
14423	48.360N	4.551W	2	093/0855Z-093/0854

**POSITIONS SVP 14423  
in Brest by end of March 95**

### TRAJECTORY SVP 14422



**SVP 14422 BUOY**

Deployment: 08/03/95

Last known position: 01/05/95

**Position data in march 95**

55 locations on 24 days, i.e 2.3 positions/day

N° Argos	Cl. 0	Cl. 1	Cl. 2	Cl. 3	Total
14422	26 47.3%	19 34.6%	8 14.5%	2 3.6%	55

PRESSIONS BOUEE N° 14422

A/MM/JJ	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
5/ 3/24	0305				0305				0250								0449				0343			
5/ 3/25				9599		0293	0290	0222	0299	0300	0315	0310	0456	0306	0305	0303	0301	0305	0305	0308	0309	0315	0315	0315
5/ 3/26	0313	0310	0306	0305	0304	0300	0300	0301	0301	0301	0305	0306	0306	0304	0300	0182	0291	0291	0294	0230	0298	0300	0300	0298
5/ 3/27	0296	0298	0298	0295	0290	0289	0293	0300	0303	0310	0345	0315	0315	0315	0314	0313	0314	0311	0311	0310	0311	0315	0315	

TEMPERATURES BOUEE N° 14422

A/MM/JJ	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
5/ 3/24																					1228			
5/ 3/25		1228	1228																	1256			1232	
5/ 3/26	1252		1244		1224				975	1228	1232	1232	1248		1275	1291	1291			1275	1267		1256	
5/ 3/27			1244		1240	1271			1236	1240	1244									1377	1334	1326	1299	1299

DATA from ARGOS DS file



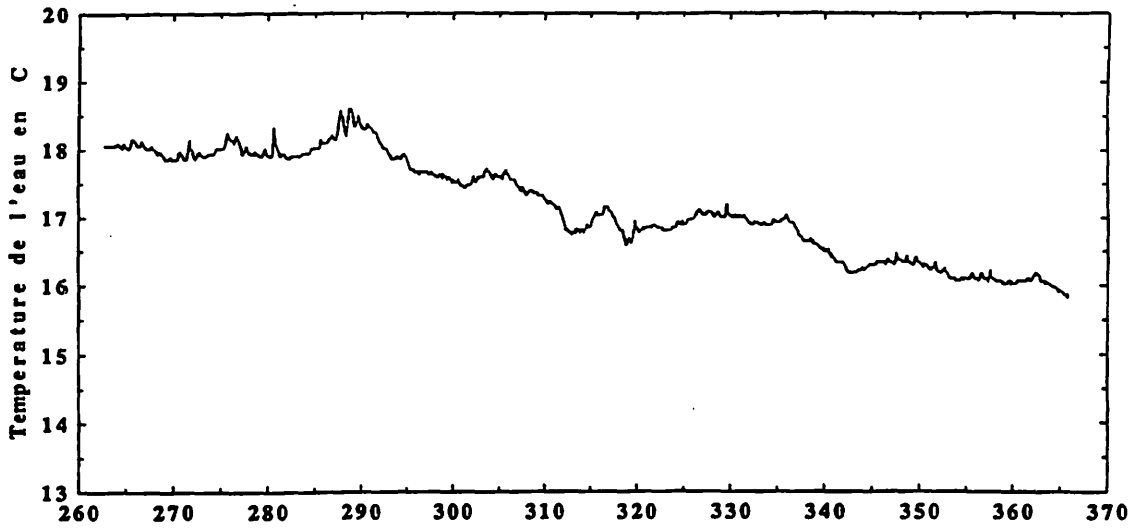
62515	95	3	26	3	0	4535	34202	10306	****	***	**	****	****	VX01LFPW	FRAN	155	1
62515	95	3	26	4	6	4535	34202	10304	122	***	**	****	7002	VX01LFPW	FRAN	48	1
62515	95	3	26	6	0	4531	34203	10300	****	***	**	****	****	VX01LFPW	FRAN	437	1
62515	95	3	26	9	6	4531	34203	10302	122	***	**	****	4000	VX01LFPW	FRAN	29	1
62515	95	3	26	10	5	4531	34203	10306	122	***	**	****	2006	VX01LFPW	FRAN	31	1
62515	95	3	26	11	5	4525	34195	10307	123	***	**	****	2005	VX01LFPW	FRAN	403	1
62515	95	3	26	14	6	4531	34203	10300	127	***	**	****	7004	VX01LFPW	FRAN	42	1
62515	95	3	26	15	6	4525	34195	10295	129	***	**	****	7009	VX01LFPW	FRAN	317	1
62515	95	3	26	19	6	4525	34195	10294	127	***	**	****	2002	VX01LFPW	FRAN	110	1
62515	95	3	26	20	6	4515	34195	10298	126	***	**	****	2006	VX01LFPW	FRAN	323	1
62515	95	3	26	21	0	4515	34195	10300	****	***	**	****	****	VX01LFPW	FRAN	430	1
62515	95	3	26	22	6	4515	34193	10301	125	***	**	****	2001	VX01LFPW	FRAN	324	1
62515	95	3	27	0	5	4515	34193	10297	125	***	**	****	7003	VX01LFPW	FRAN	309	1
62515	95	3	27	2	6	4515	34193	10298	124	***	**	****	7003	VX01LFPW	FRAN	503	1
62515	95	3	27	3	0	4515	34193	10296	****	***	**	****	****	VX01LFPW	FRAN	231	1
62515	95	3	27	4	6	4515	34193	10291	124	***	**	****	7005	VX01LFPW	FRAN	125	1
62515	95	3	27	6	0	4511	34194	10293	****	***	**	****	****	VX01LFPW	FRAN	811	1
62515	95	3	27	8	6	4511	34194	10303	123	***	**	****	2003	VX01LFPW	FRAN	38	1
62515	95	3	27	9	0	4511	34194	10310	****	***	**	****	****	VX01LFPW	FRAN	306	1
62515	95	3	27	10	6	4511	34194	10314	124	***	**	****	2011	VX01LFPW	FRAN	200	1
62515	95	3	27	12	0	4495	34190	10315	****	***	**	****	****	VX01LFPW	FRAN	854	1
62515	95	3	27	15	0	4493	34193	10313	****	***	**	****	****	VX01LFPW	FRAN	1120	1
62515	95	3	27	18	0	4495	34192	10312	****	***	**	****	****	VX01LFPW	FRAN	414	1
62515	95	3	27	19	6	4511	34194	10311	139	***	**	****	7003	VX01LFPW	FRAN	100	1
62515	95	3	27	20	5	4495	34190	10312	133	***	**	****	2001	VX01LFPW	FRAN	49	1
62515	95	3	27	21	6	4495	34192	10315	133	***	**	****	2003	VX01LFPW	FRAN	108	1
62515	95	3	27	22	6	4493	34193	10315	130	***	**	****	4000	VX01LFPW	FRAN	27	1
62515	95	3	27	23	5	4493	34193	10311	130	***	**	****	4000	VX01LFPW	FRAN	315	1

12/24

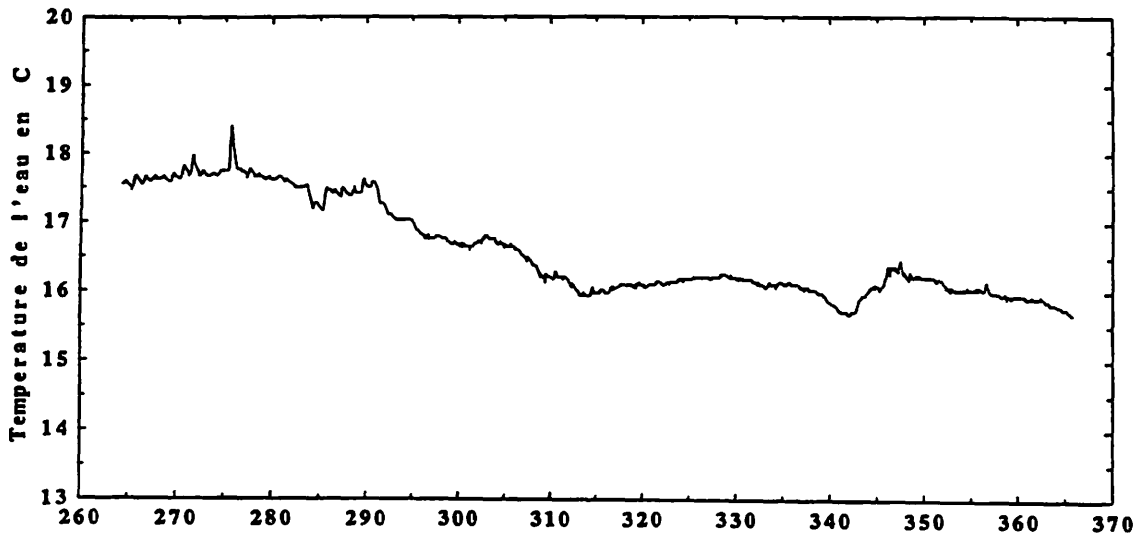
16/24

Messages in BDM (Data Bank) at Météo-France  
from 14422 buoy

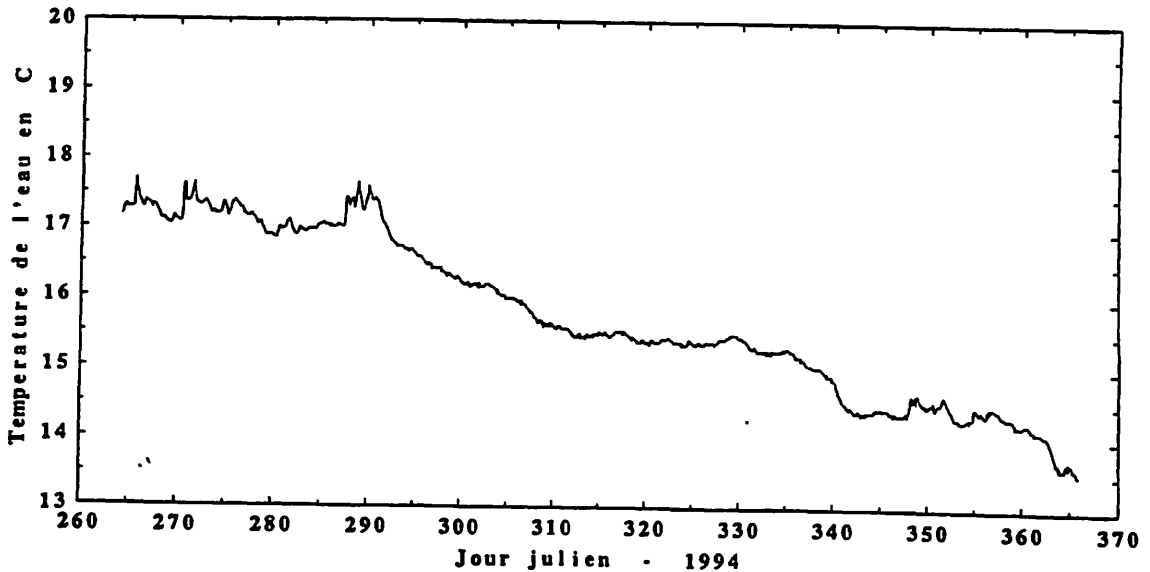
Balise 14423

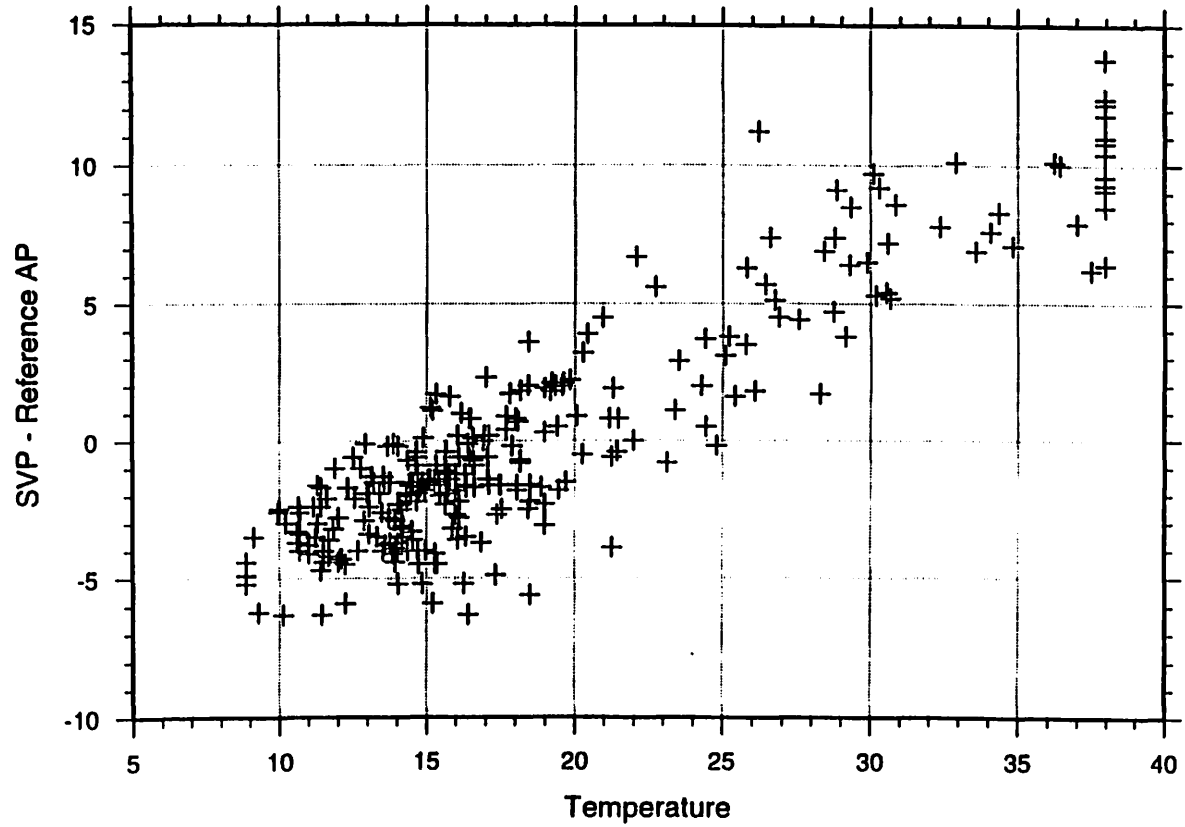


Balise 14424



Balise 14425





October 1994

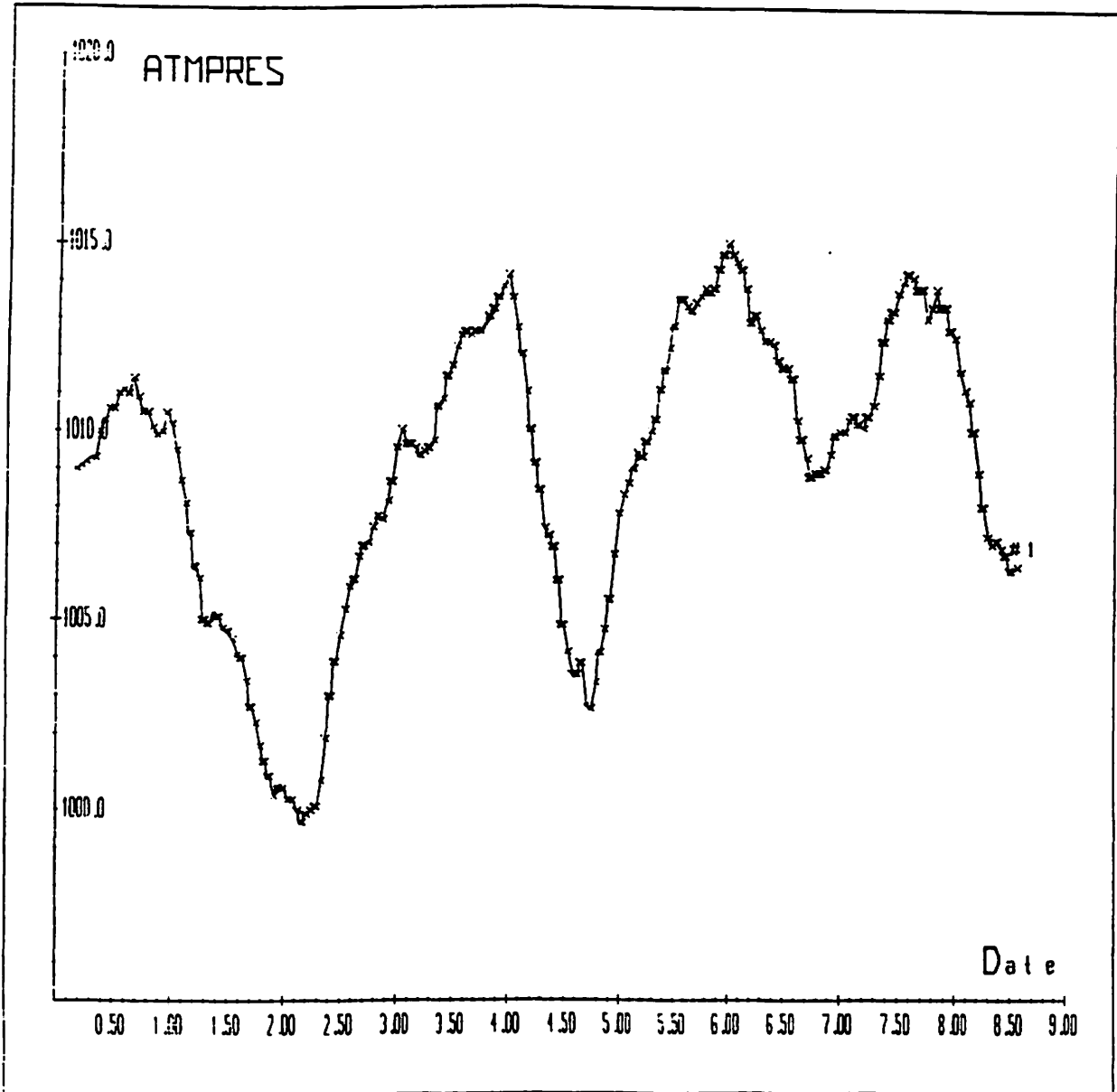
BUOYS 14426 and 14422

**SURVIVABILITY of Météo-France SVP Drifters**  
**Days at sea**

<b>ID</b>	<b>Loc</b>	<b>PPP</b>	<b>SST</b>	
1354	333	333	333	
1355	151	129	92	
1356	164	164	164	recovered
1356	394	394	36	
14422	54			
14423	151	151	151	recovered
14424	ok	123	ok	at sea
14425	158	115	158	ashore
14426	/	/	/	

APPENDIX 5.

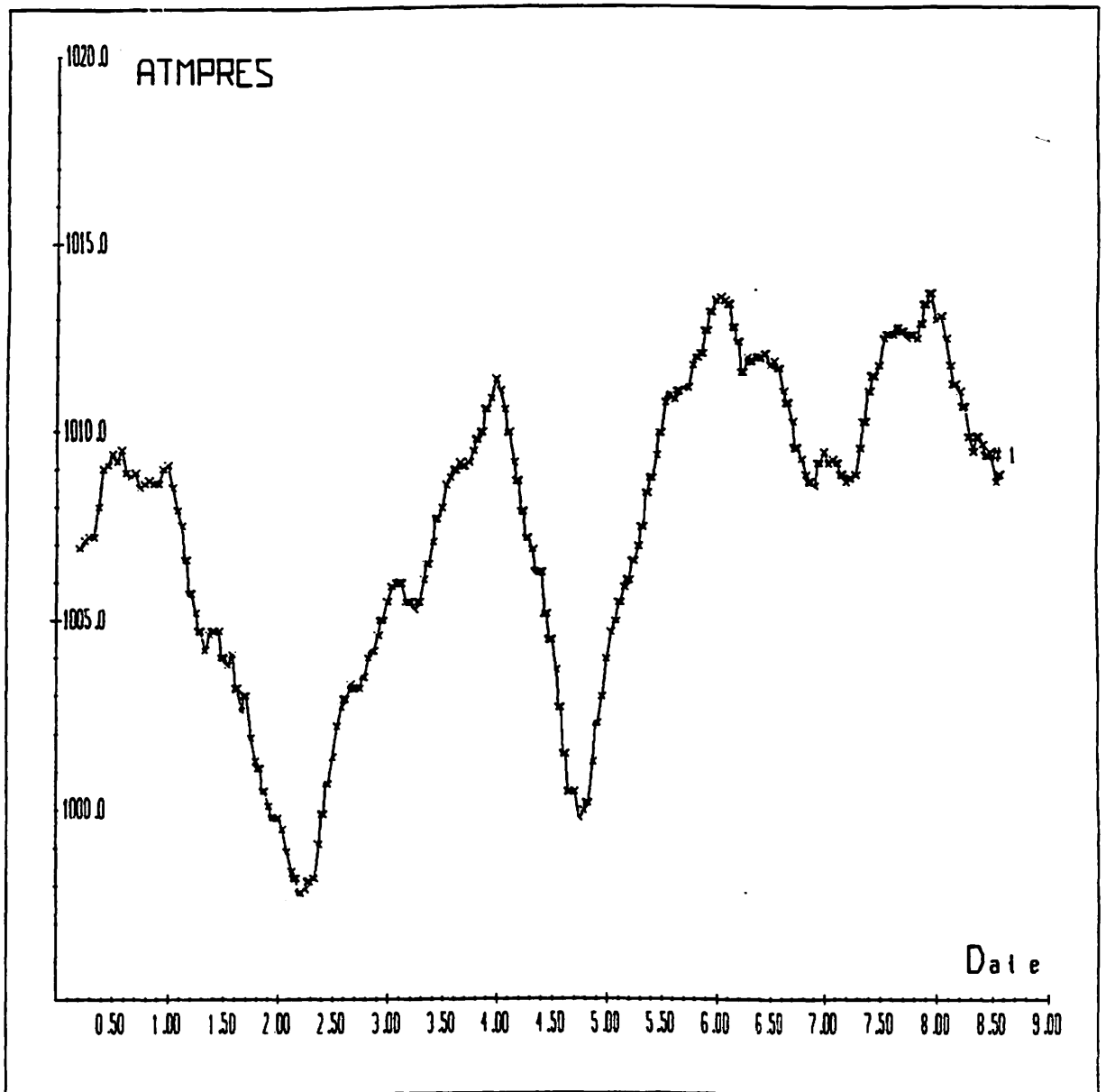
PRESSURE DATA, UK MET OFFICE  
DEPLOYED 24/4/95  
36°17'N 041°00'W



PTT 14737

Dates: 0 = Thursday 27 April 1995 : 0h 0mn 0s

PRESSURE DATA, UK MET OFFICE  
DEPLOYED 24/4/95  
37°47'N 038°38'W



PTT 14733

Dates: 0 = Thursday 27 April 1995 : 0h 0mn 0s

CALIBRATIONS, UK MET OFFICE SVP-B DRIFTERS

Buoy 14733 Pressure Calibration hPa

03-28-95 09:43:01 ID 14733 NA  
042 125 039 012 000 021 072 000 1000.20

03-28-95 10:40:51 ID 14733 NA  
079 137 167 048 000 000 000 000 1020.20

03-28-95 11:41:40 ID 14733 NA  
178 159 119 064 000 021 084 000 1055.10

03-28-95 12:48:26 ID 14733 NA  
057 137 167 072 000 042 168 000 1020.20

03-28-95 13:43:18 ID 14733 NA  
037 125 039 112 000 063 252 000 1000.20

03-28-95 14:39:40 ID 14733 NA  
070 112 167 180 000 021 084 000 980.20

03-28-95 15:39:00 ID 14733 NA  
066 093 247 244 000 021 084 000 950.30

03-28-95 16:41:20 ID 14733 NA  
227 075 056 048 000 063 252 000 920.30

03-29-95 08:44:00 ID 14733 NA  
070 062 198 172 000 000 000 000 900.40

---

Pressure Standards: Druck DPI 501  
SN: 314/94-8

Druck DPI 140  
SN: 28/89-03

The uncertainty of measurement is estimated  
not to exceed  $\pm 0.1$  hPa.

Temperature Standards: Tinsley SPRT  
SN: 221460

The uncertainty of measurement is estimated  
not to exceed  $\pm 0.025$  °C .

Date of Test: As individual records.

hPa

03-29-95 09:43:20 ID 14733 NA  
138 050 070 244 000 000 000 000 880.40

03-29-95 10:42:40 ID 14733 NA  
094 031 135 072 000 000 000 000 850.40

03-29-95 11:46:27 ID 14733 NS  
146 050 055 164 000 063 252 000 880.30

03-29-95 12:50:14 ID 14733 NS  
069 062 183 232 000 042 168 000 900.30

03-29-95 13:40:40 ID 14733 NS  
210 075 040 028 000 000 000 000 920.20

03-29-95 14:47:25 ID 14733 NS  
092 093 232 080 000 021 084 000 950.20

03-29-95 15:40:49 ID 14733 NS  
032 112 168 128 000 021 084 000 980.20

03-29-95 16:37:11 ID 14733 NS  
220 125 040 144 000 063 252 000 1000.20

---

Temperature Measurement °C

04-03-95 11:37:40 ID 14733 NS  
231 132 178 204 000 063 252 000 5.03

04-03-95 14:07:29 ID 14733 NS  
014 132 004 204 000 000 000 000 10.02

04-03-95 16:07:38 ID 14733 NS  
029 131 006 204 000 021 084 000 15.01

04-03-95 17:52:57 ID 14733 NS  
048 130 136 204 000 000 000 000 20.00

04-04-95 10:37:11 ID 14733 NS  
029 134 090 200 000 021 084 000 24.96

Buoy 14734 Pressure Calibration hPa

03-28-95 09:43:24 ID 14734 NA  
159 125 095 254 128 021 072 000 1000.50

03-28-95 10:41:54 ID 14734 NA  
202 137 215 032 000 042 168 000 1020.50

03-28-95 11:41:54 ID 14734 NA  
010 159 167 056 000 042 168 000 1055.40

03-28-95 12:38:54 ID 14734 NA  
224 137 215 068 000 000 000 000 1020.50

03-28-95 13:47:54 ID 14734 NA  
172 125 103 112 000 042 168 000 1000.60

03-28-95 14:40:24 ID 14734 NA  
103 112 231 152 000 021 084 000 980.60

03-28-95 15:38:54 ID 14734 NA  
108 094 071 200 000 000 000 000 950.80

03-28-95 16:41:54 ID 14734 NA  
144 075 151 252 000 042 168 000 920.90

03-29-95 08:44:54 ID 14734 NA  
049 063 054 176 000 000 000 000 901.10

---

Pressure Standards: Druck DPI 501  
SN: 314/94-8

Druck DPI 140  
SN: 28/89-03

The uncertainty of measurement is estimated  
not to exceed  $\pm 0.1$  hPa.

Temperature Standards: Tinsley SPRT  
SN: 221460

The uncertainty of measurement is estimated  
not to exceed  $\pm 0.025$  °C .

Date of Test: As individual records.

hPa

03-29-95 09:44:54 ID 14734 NA  
202 050 182 236 000 000 000 000 881.10

03-29-95 10:43:24 ID 14734 NA  
033 032 007 036 000 063 252 000 851.20

03-29-95 11:43:24 ID 14734 NA  
081 050 167 108 000 063 252 000 881.00

03-29-95 12:50:54 ID 14734 NS  
065 063 007 192 000 000 000 000 900.80

03-29-95 13:43:24 ID 14734 NS  
179 075 119 232 000 063 252 000 920.70

03-29-95 14:47:54 ID 14734 NS  
152 094 040 036 000 042 168 000 950.60

03-29-95 15:41:55 ID 14734 NS  
106 112 216 068 000 042 168 000 980.50

03-29-95 16:37:24 ID 14734 NS  
091 125 088 080 000 127 252 001 1000.50

---

Temperature Measurement °C

04-05-95 11:51:51 ID 14734 NS  
223 135 162 200 000 000 000 000 5.03

04-05-95 15:02:21 ID 14734 NS  
081 134 212 204 000 063 252 000 10.06

04-05-95 17:05:21 ID 14734 NS  
042 134 086 204 000 021 084 000 15.06

04-04-95 15:48:51 ID 14734 NS  
121 135 040 200 000 042 168 000 20.01

04-04-95 13:03:51 ID 14734 NS  
018 135 026 196 000 000 000 000 24.96



**Buoy 14735 Pressure Calibration hPa**

03-28-95 09:36:57 ID 14735 NA  
050 125 071 004 000 021 084 000 1000.40

03-28-95 10:42:10 ID 14735 NA  
183 137 183 048 000 000-000 000 1020.30

03-28-95 11:42:50 ID 14735 NA  
164 159 135 068 000 000 000 000 1055.20

03-28-95 12:45:01 ID 14735 NA  
191 137 183 080 000 021 084 000 1020.30

03-28-95 13:48:43 ID 14735 NA  
039 125 071 116 000 063 252 000 1000.40

03-28-95 14:38:46 ID 14735 NA  
133 112 199 172 000 000 000 000 980.40

03-28-95 15:37:55 ID 14735 NA  
179 094 039 220 000 063 252 000 950.60

03-28-95 16:41:37 ID 14735 NA  
109 075 104 016 000 021 084 000 920.60

03-29-95 08:44:42 ID 14735 NA  
152 063 006 164 000 000 000 000 900.80

---

**Pressure Standards: Druck DPI 501**  
SN: 314/94-8

**Druck DPI 140**  
SN: 28/89-03

The uncertainty of measurement is estimated  
not to exceed  $\pm 0.1$  hPa.

**Temperature Standards: Tinsley SPRT**  
SN: 221460

The uncertainty of measurement is estimated  
not to exceed  $\pm 0.025^\circ\text{C}$ .

Date of Test: As individual records.

**hPa**

03-29-95 09:42:20 ID 14735 NA  
141 050 118 228 000 042 168 000 880.70

03-29-95 10:43:01 ID 14735 NA  
124 031 199 044 000 042 168 000 850.80

03-29-95 11:43:41 ID 14735 NA  
213 050 103 116 000 042 168 000 880.60

03-29-95 12:51:55 ID 14735 NS  
018 062 231 184 000 063 252 000 900.60

03-29-95 13:40:27 ID 14735 NS  
095 075 087 236 000 063 252 000 920.50

03-29-95 14:48:42 ID 14735 NS  
202 094 008 028 000 000 000 000 950.40

03-29-95 15:43:18 ID 14735 NS  
227 112 184 076 000 000 000 000 980.30

03-29-95 16:37:54 ID 14735 NS  
114 125 056 084 000 000 000 000 1000.30

---

**Temperature Measurement  $^\circ\text{C}$**

04-05-95 11:07:27 ID 14735 NS  
245 135 146 196 000 042 168 000 5.03

04-05-95 14:09:27 ID 14735 NS  
244 135 100 196 000 042 168 000 10.02

04-05-95 16:38:05 ID 14735 NS  
006 134 134 200 000 000 000 000 15.05

04-04-95 16:22:05 ID 14735 NS  
000 135 040 196 000 000 000 000 20.00

04-04-95 14:25:18 ID 14735 NS  
241 135 042 192 000 063 252 000 24.95

Buoy 17436 Pressure Calibration hPa

03-28-95 09:37:16 ID 14736 NA  
125 125 007 056 000 042 168 000 1000.00

03-28-95 10:41:40 ID 14736 NA  
104 137 119 080 000 000 000 000 1019.90

03-28-95 11:44:32 ID 14736 NA  
247 159 071 096 000 245 084 000 1054.80

03-28-95 12:38:12 ID 14736 NA  
057 137 119 088 000 000 000 000 1019.90

03-28-95 13:42:36 ID 14736 NA  
067 125 007 104 000 042 168 000 1000.00

03-28-95 14:39:20 ID 14736 NA  
066 112 151 148 000 063 252 000 980.10

03-28-95 15:37:36 ID 14736 NA  
150 093 247 188 000 021 084 000 950.30

03-28-95 16:42:00 ID 14736 NA  
120 075 071 240 000 063 252 000 920.40

03-29-95 08:46:29 ID 14736 NA  
118 062 230 156 000 000 000 000 900.60

---

Pressure Standards: Druck DPI 501  
SN: 314/94-8

Druck DPI 140  
SN: 28/89-03

The uncertainty of measurement is estimated  
not to exceed  $\pm 0.1$  hPa.

Temperature Standards: Tinsley SPRT  
SN: 221460

The uncertainty of measurement is estimated  
not to exceed  $\pm 0.025^\circ\text{C}$ .

Date of Test: As individual records

hPa

03-29-95 09:43:13 ID 14736 NA  
204 050 118 208 000 021 084 000 880.70

03-29-95 10:47:37 ID 14736 NS  
241 031 183 020 000 063 252 000 850.70

03-29-95 11:44:21 ID 14736 NA  
074 050 087 092 000 000 000 000 880.50

03-29-95 12:51:49 ID 14736 NS  
067 062 199 160 000 000 000 000 900.40

03-29-95 13:45:29 ID 14736 NS  
179 075 055 216 000 063 252 000 920.30

03-29-95 14:46:49 ID 14736 NS  
053 093 232 012 000 063 252 000 950.20

03-29-95 15:43:33 ID 14736 NS  
063 112 152 056 000 000 000 000 980.10

03-29-95 16:43:21 ID 14736 NS  
019 125 024 072 000 063 252 000 1000.10

---

Temperature Measurement  $^\circ\text{C}$

03-10-95 11:07:44 ID 14736 NA  
015 125 050 208 000 000 000 000 5.07

03-10-95 12:38:12 ID 14736 NA  
028 125 052 204 000 063 252 000 10.02

03-10-95 14:53:08 ID 14736 NA  
191 124 230 200 000 063 252 000 14.97

03-07-95 11:12:14 ID 14736 NA  
134 138 024 200 000 000 000 000 19.96

03-13-95 12:33:29 ID 14736 NA  
007 137 138 106 000 021 084 000 21.02

Buoy 14737 Pressure Calibration      hPa

03-28-95 09:36:37 ID 14737 NA  
195 125 023 056 000 042 168 000 1000.10

03-28-95 10:46:22 ID 14737 NA  
194 137 151 108 000 063 252 000 1020.10

03-28-95 11:42:10 ID 14737 NA  
226 159 119 124 000 063 252 000 1055.10

03-28-95 12:37:58 ID 14737 NA  
115 137 135 140 000 063 252 000 1020.00

03-28-95 13:43:04 ID 14737 NA  
227 125 023 188 000 021 084 000 1000.10

03-28-95 14:38:52 ID 14737 NA  
015 112 151 248 000 021 084 000 980.10

03-28-95 15:37:47 ID 14737 NA  
119 093 232 028 000 063 252 000 950.20

03-28-95 16:42:53 ID 14737 NA  
101 075 040 104 000 021 084 000 920.20

03-29-95 08:43:53 ID 14737 NA  
004 062 182 208 000 021 084 000 900.30

---

Pressure Standards: Druck DPI 501  
SN: 314/94-8

Druck DPI 140  
SN: 28/89-03

The uncertainty of measurement is estimated  
not to exceed  $\pm 0.1$  hPa.

Temperature Standard: Tinsley SPRT  
SN: 221460

The uncertainty of measurement is estimated  
not to exceed  $\pm 0.025$  °C.

Date of Test: As individual records.

hPa

03-29-95 09:42:47 ID 14737 NA  
252 050 055 024 000 063 252 000 880.30

03-29-95 10:43:14 ID 14737 NA  
029 031 119 108 000 042 168 000 850.30

03-29-95 11:46:47 ID 14737 NS  
203 050 039 192 000 063 252 000 880.20

03-29-95 12:47:14 ID 14737 NS  
070 062 168 012 000 042 168 000 900.20

03-29-95 13:44:35 ID 14737 NS  
246 075 024 080 000 063 252 000 920.10

03-29-95 14:46:35 ID 14737 NS  
215 093 216 140 000 063 252 000 950.10

03-29-95 15:43:56 ID 14737 NS  
110 112 136 188 000 000 000 000 980.00

03-29-95 16:42:50 ID 14737 NS  
010 125 008 180 000 042 168 000 1000.00

---

Temperature Measurement      °C

04-03-95 12:23:46 ID 14737 NS  
015 132 146 192 000 000 000 000 4.99

04-03-95 13:08:43 ID 14737 NS  
112 132 036 196 000 021 084 000 10.02

04-03-95 15:08:04 ID 14737 NS  
162 131 038 200 000 042 168 000 15.06

04-03-95 17:08:58 ID 14737 NS  
049 130 136 196 000 000 000 000 20.01

04-04-95 11:23:16 ID 14737 NS  
250 134 074 196 000 042 168 000 25.00

APPENDIX 6.

Comparison of observations with ECMWF first guess field.

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
14422	62515	44.3	341.4	SVPB	TECHNOCE	FRAN	3/95	+ .7	1.0	158	158
14422	62515	44.3	341.4	SVPB	TECHNOCE	FRAN	4/95	+ .8	1.1	284	284
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	9/94	- .3	.5	46	46
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	10/94	+ .1	1.0	302	302
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	11/94	+ .4	.9	466	466
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	12/94	+ .7	1.2	504	504
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	1/95	+ .5	2.9	416	416
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22037	31901	-37.5	.2	SVPB		USA	10/94	+ .7	1.3	63	63
22037	31901	-37.5	.2	SVPB		USA	11/94	+ .2	1.2	94	94
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22038	15901	-28.1	353.8	SVPB		USA	1/95	+ .1	.9	31	31
22038	15901	-28.1	353.8	SVPB		USA	2/95	+0.0	.8	68	68
22038	15901	-28.1	353.8	SVPB		USA	3/95	+ .2	.7	78	78
22038	15901	-28.1	353.8	SVPB		USA	4/95	+0.0	.8	76	76
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22040	33901	-49.8	60.6	SVPB		USA	10/94	+ .3	1.7	102	102
22040	33901	-49.8	60.6	SVPB		USA	11/94	+ .2	1.2	57	57
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22041	16936	-38.1	60.7	SVPB		USA	1/95	+ .6	1.3	33	33
22041	16936	-38.1	60.7	SVPB		USA	2/95	+4.7	5.8	68	68
22041	16936	-38.1	60.7	SVPB		USA	3/95	+7.6	8.8	63	58
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22042	16937	-38.3	73.2	SVPB		USA	1/95	- .3	1.5	32	32
22042	16937	-38.3	73.2	SVPB		USA	2/95	-1.8	2.1	69	69
22042	16937	-38.3	73.2	SVPB		USA	3/95	-1.7	2.2	81	81
22042	16937	-38.3	73.2	SVPB		USA	4/95	-2.4	2.8	94	94
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22090	33902	-56.7	57.7	SVPB		USA	10/94	+1.1	1.8	65	65
22090	33902	-56.7	57.7	SVPB		USA	11/94	+0.0	.8	43	43
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22091	33903	-39.5	351.9	SVPB		USA	10/94	+ .4	1.7	54	54
22091	33903	-39.5	351.9	SVPB		USA	11/94	+ .3	1.4	29	29
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22092	33904	-40.6	18.8	SVPB		USA	10/94	+ .5	1.3	59	59
22092	33904	-40.6	18.8	SVPB		USA	11/94	+ .4	1.2	39	39

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22093	33905	-54.7	53.6	SVPB		USA	10/94	+0.7	1.8	83	83
22093	33905	-54.7	53.6	SVPB		USA	11/94	-0.2	1.2	41	41
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22095	33906	-46.6	9.9	SVPB		USA	10/94	+0.0	1.4	90	90
22095	33906	-46.6	9.9	SVPB		USA	11/94	+1.2	1.5	44	44
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22098	33907	-41.5	44.8	SVPB		USA	10/94	+0.7	1.5	86	86
22098	33907	-41.5	44.8	SVPB		USA	11/94	+1.3	2.1	42	42
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22101	33909	-47.4	102.4	SVPB		USA	10/94	-0.1	3.5	75	75
22101	33909	-47.4	102.4	SVPB		USA	11/94	-5.1	8.1	52	32
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22103	31904	-41.2	334.3	SVPB		USA	10/94	+0.6	1.5	73	73
22103	31904	-41.2	334.3	SVPB		USA	11/94	-0.1	1.4	39	39
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22105	33943	-44.7	3.3	SVPB		USA	1/95	+0.0	1.3	11	11
22105	33943	-44.7	3.3	SVPB		USA	2/95	-0.1	2.0	43	43
22105	33943	-44.7	3.3	SVPB		USA	3/95	-0.9	1.8	90	90
22105	33943	-44.7	3.3	SVPB		USA	4/95	+0.6	1.6	11	11
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22107	16938	-52.7	95.5	SVPB		USA	1/95	-1.8	5.1	35	34
22107	16938	-52.7	95.5	SVPB		USA	2/95	-0.4	1.9	102	102
22107	16938	-52.7	95.5	SVPB		USA	3/95	+0.5	3.1	90	90
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22108	31905	-47.1	2.9	SVPB		USA	10/94	-0.8	2.1	76	76
22108	31905	-47.1	2.9	SVPB		USA	11/94	-0.2	2.2	53	53
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22109	31906	-52.2	5.2	SVPB		USA	10/94	-0.4	1.8	91	91
22109	31906	-52.2	5.2	SVPB		USA	11/94	+1.6	2.5	54	54
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22110	31907	-48.7	22.8	SVPB		USA	10/94	+2.6	5.0	69	66
22110	31907	-48.7	22.8	SVPB		USA	11/94	-5.1	7.8	38	38
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22111	31908	-36.9	347.7	SVPB		USA	10/94	+1.0	2.2	63	63
22111	31908	-36.9	347.7	SVPB		USA	11/94	+0.9	2.5	39	39

22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	9/94	-.8	1.6	131	131
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	10/94	-.1	1.3	330	330
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	11/94	-.1	1.1	446	446
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	12/94	+2	.8	254	254
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	1/95	-.1	.9	486	486
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	2/95	-.4	1.0	430	430
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	3/95	-.4	1.0	540	540
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	4/95	-.5	1.0	608	608

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	9/94	+1	2.0	80	80
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	10/94	-.2	1.7	428	423
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	11/94	+4	1.6	648	648
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	12/94	+1.0	2.0	353	353
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	1/95	+1.2	1.9	647	647
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	2/95	+1.4	2.2	549	549
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	3/95	+6	1.9	665	665
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	4/95	+0.0	1.7	773	773

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	9/94	-.6	1.3	92	92
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	10/94	+4	1.4	375	375
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	11/94	+0.0	1.6	516	516
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	12/94	+3	1.3	294	294
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	1/95	+7	1.5	535	535
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	2/95	+1	1.4	453	453
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	3/95	+5	1.2	567	567
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	4/95	+3	1.7	621	621

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	1/95	-.4	1.4	265	265
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	2/95	+0.0	1.0	481	481
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	3/95	-.1	.9	578	578
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	4/95	-.2	1.1	280	280

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	1/95	+1.1	1.7	239	239
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	2/95	+2	1.7	694	694
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	3/95	+9	2.0	956	956
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	4/95	+2	1.9	1169	1169

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	1/95	+2	.8	44	44
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	2/95	+4	1.3	723	723
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	3/95	+3	1.7	807	807
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	4/95	+8	2.2	869	869

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	9/94	-.2	1.1	121	121
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	10/94	+2	1.1	307	307
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	11/94	+2	1.4	483	483
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	12/94	+8	1.5	268	268
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	1/95	+6	1.3	496	496
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	2/95	+7	1.2	449	449

22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	3/95	+ .3	.9	527	527
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	4/95	+ .4	.9	573	573

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	10/94	+ .3	1.6	439	439
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	11/94	+ .2	1.2	699	699
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	12/94	- .5	1.8	379	379
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	1/95	+ .1	1.2	654	654
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	2/95	+ .4	1.3	597	597
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	3/95	+0.0	1.3	672	672
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	4/95	+0.0	1.2	720	720

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	9/94	+1.2	2.1	53	53
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	10/94	+ .4	2.3	480	480
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	11/94	+1.4	2.3	721	721
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	12/94	+1.1	1.7	416	416
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	1/95	+ .8	1.5	713	713
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	2/95	+ .9	1.6	633	633
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	3/95	+1.0	2.0	784	784
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	4/95	+ .7	1.5	830	830

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	9/94	+ .4	.9	25	25
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	10/94	+ .4	1.6	348	348
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	11/94	+ .4	1.3	552	552
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	12/94	- .1	1.9	333	333
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	1/95	+1.0	1.9	562	562
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	2/95	+ .8	1.6	489	489
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	3/95	+1.2	2.1	576	576
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	4/95	+1.8	2.6	702	702

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	9/94	- .3	1.4	91	91
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	10/94	+ .3	1.4	340	340
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	11/94	+ .1	1.2	528	528
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	12/94	- .3	1.7	284	284
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	1/95	+ .3	1.7	537	537
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	2/95	- .4	1.8	468	468
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	3/95	- .2	1.0	569	569
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	4/95	- .3	1.0	614	614

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22587	33539	-44.1	6.7	SVPB	METOCEAN	AFS	9/94	+ .1	.8	46	46
22587	33539	-44.1	6.7	SVPB	METOCEAN	AFS	10/94	+ .9	1.7	44	44

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	9/94	+0.0	1.5	99	99
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	10/94	- .1	1.5	350	350
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	11/94	+0.0	1.7	494	494
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	12/94	+ .3	1.5	281	281
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	1/95	+ .3	1.4	490	490
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	2/95	+ .6	1.3	434	434
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	3/95	+ .4	1.4	577	577

22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	4/95	+ .4	1.7	665	665	:
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt	
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	10/94	+ .4	1.5	403	403	
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	11/94	+ .2	1.1	639	639	
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	12/94	+ .2	1.5	357	357	
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	1/95	+ .5	1.9	645	645	
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	2/95	+ .6	1.5	540	540	
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	3/95	+1.3	1.8	661	661	
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	4/95	+1.6	2.2	736	736	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt	
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	10/94	+ .4	1.4	399	399	
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	11/94	+0.0	1.2	703	703	
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	12/94	+ .1	1.6	413	413	
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	1/95	+3.5	5.8	690	689	
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	2/95	+8.7	10.2	444	414	
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	3/95	+7.0	9.0	227	225	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	9/94	+ .6	2.0	121	121	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	10/94	- .2	1.8	460	460	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	11/94	+ .2	2.0	667	667	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	12/94	+1.1	2.3	407	407	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	1/95	+1.4	2.0	656	656	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	2/95	+1.5	2.0	537	537	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	3/95	+ .3	1.7	658	658	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	4/95	- .2	2.1	760	760	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	9/94	- .2	1.7	113	113	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	10/94	+ .2	1.2	329	329	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	11/94	+ .2	1.3	503	503	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	12/94	+ .1	1.4	275	275	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	1/95	+ .4	1.4	509	509	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	2/95	- .3	1.9	455	453	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	3/95	- .1	1.2	550	550	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	4/95	- .1	.9	591	591	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt	
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	10/94	- .2	1.7	412	412	
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	11/94	- .1	1.2	665	665	
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	12/94	- .5	1.6	394	394	
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	1/95	+ .1	1.2	662	662	
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	2/95	+ .2	1.1	578	578	
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	3/95	- .1	1.3	698	698	
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	4/95	+ .3	1.4	767	767	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt	
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	9/94	+ .4	1.5	99	99	
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	10/94	+ .1	2.0	336	336	
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	11/94	+ .9	1.4	494	494	
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	12/94	+ .6	1.7	300	300	
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	1/95	+ .6	1.6	551	551	



22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	2/95	+ .9	1.8	448	448
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	3/95	+1.1	1.7	533	533
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	4/95	+1.6	2.1	614	614

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
23380	74531	-61.6	93.5	SVPB	TURO	AUST	11/94	+ .1	1.5	362	362
23380	74531	-61.6	93.5	SVPB	TURO	AUST	12/94	+0.0	1.6	569	569
23380	74531	-61.6	93.5	SVPB	TURO	AUST	1/95	+ .6	1.9	552	552
23380	74531	-61.6	93.5	SVPB	TURO	AUST	2/95	- .3	1.7	508	508
23380	74531	-61.6	93.5	SVPB	TURO	AUST	3/95	+ .6	2.2	597	597
23380	74531	-61.6	93.5	SVPB	TURO	AUST	4/95	+ .9	2.0	606	606

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
23406	73505	-62.0	100.9	SVPB	TURO	AUST	11/94	+0.0	1.3	317	317
23406	73505	-62.0	100.9	SVPB	TURO	AUST	12/94	+ .8	1.2	146	146

Comparison of observations with UKMO first guess field.

Argos WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
14422 62515	44.3	341.4	SVPB	TECHNOCE	FRAN	3/95	+ .5	1.1	154	154
Argos WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
14424 62512	44.6	349.3	SVPB	TECHNOCE	FRAN	9/94	+ .7	.9	55	55
14424 62512	44.6	349.3	SVPB	TECHNOCE	FRAN	10/94	+ .6	1.5	127	127
14424 62512	44.6	349.3	SVPB	TECHNOCE	FRAN	11/94	+ .8	1.4	433	433
14424 62512	44.6	349.3	SVPB	TECHNOCE	FRAN	12/94	+ .8	1.5	513	513
14424 62512	44.6	349.3	SVPB	TECHNOCE	FRAN	1/95	+ .9	3.2	428	428
Argos WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22037 31901	-37.5	.2	SVPB		USA	10/94	+1.1	1.5	17	17
22037 31901	-37.5	.2	SVPB		USA	11/94	- .5	1.4	94	94
Argos WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22038 15901	-28.1	353.8	SVPB		USA	1/95	+ .1	.8	28	28
22038 15901	-28.1	353.8	SVPB		USA	2/95	+0.0	.9	60	60
22038 15901	-28.1	353.8	SVPB		USA	3/95	+0.0	.8	73	73
Argos WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22040 33901	-49.8	60.6	SVPB		USA	10/94	- .1	2.9	57	57
22040 33901	-49.8	60.6	SVPB		USA	11/94	- .4	1.5	86	86
Argos WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22041 16936	-38.1	60.7	SVPB		USA	1/95	+ .5	1.3	34	34
22041 16936	-38.1	60.7	SVPB		USA	2/95	+4.9	6.1	66	66
22041 16936	-38.1	60.7	SVPB		USA	3/95	+7.1	8.2	59	55
Argos WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22042 16937	-38.3	73.2	SVPB		USA	1/95	- .5	1.8	33	33
22042 16937	-38.3	73.2	SVPB		USA	2/95	-1.5	2.1	67	67
22042 16937	-38.3	73.2	SVPB		USA	3/95	-1.7	2.4	77	77
Argos WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22090 33902	-56.7	57.7	SVPB		USA	10/94	+1.7	2.8	28	28
22090 33902	-56.7	57.7	SVPB		USA	11/94	- .4	1.8	52	52
Argos WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22091 33903	-39.5	351.9	SVPB		USA	10/94	+ .6	1.6	21	21
22091 33903	-39.5	351.9	SVPB		USA	11/94	- .3	1.6	38	38
Argos WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22092 33904	-40.6	18.8	SVPB		USA	10/94	+ .6	1.8	20	20
22092 33904	-40.6	18.8	SVPB		USA	11/94	+ .2	1.4	47	47
Argos WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22093 33905	-54.7	53.6	SVPB		USA	10/94	+ .1	2.6	36	36
22093 33905	-54.7	53.6	SVPB		USA	11/94	- .2	1.4	68	68

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22095	33906	-46.6	9.9	SVPB		USA	10/94	-.5	2.7	42	42
22095	33906	-46.6	9.9	SVPB		USA	11/94	+.3	1.5	43	43
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22098	33907	-41.5	44.8	SVPB		USA	10/94	+.2	1.6	43	43
22098	33907	-41.5	44.8	SVPB		USA	11/94	+0.0	1.3	43	43
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22101	33909	-47.4	102.4	SVPB		USA	10/94	-.8	2.9	34	34
22101	33909	-47.4	102.4	SVPB		USA	11/94	-3.4	6.3	70	61
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22103	31904	-41.2	334.3	SVPB		USA	10/94	-.2	1.6	23	23
22103	31904	-41.2	334.3	SVPB		USA	11/94	+.5	2.0	42	42
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22105	33943	-44.7	3.3	SVPB		USA	1/95	+.5	1.7	11	11
22105	33943	-44.7	3.3	SVPB		USA	2/95	-.8	1.9	42	42
22105	33943	-44.7	3.3	SVPB		USA	3/95	-1.1	2.1	80	80
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22107	16938	-52.7	95.5	SVPB		USA	1/95	-2.6	5.7	37	37
22107	16938	-52.7	95.5	SVPB		USA	2/95	-.5	2.3	97	97
22107	16938	-52.7	95.5	SVPB		USA	3/95	+1.5	3.6	87	86
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22108	31905	-47.1	2.9	SVPB		USA	10/94	+.5	1.8	43	41
22108	31905	-47.1	2.9	SVPB		USA	11/94	-.2	2.3	56	56
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22109	31906	-52.2	5.2	SVPB		USA	10/94	+.4	1.7	51	51
22109	31906	-52.2	5.2	SVPB		USA	11/94	+.1	2.4	70	70
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22110	31907	-48.7	22.8	SVPB		USA	10/94	+4.8	5.8	28	25
22110	31907	-48.7	22.8	SVPB		USA	11/94	+0.0	6.6	60	60
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22111	31908	-36.9	347.7	SVPB		USA	10/94	+1.3	3.1	31	31
22111	31908	-36.9	347.7	SVPB		USA	11/94	-.1	2.5	48	48
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	9/94	-.2	1.6	122	122
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	10/94	-.8	1.6	146	146
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	11/94	-.7	1.3	378	378
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	12/94	-.5	1.1	223	223
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	1/95	-.3	1.0	447	447

22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	2/95	-.4	1.0	377	377
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	3/95	-.5	1.1	506	506

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	9/94	-.1	2.5	75	75
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	10/94	+2	1.9	184	184
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	11/94	-.2	1.9	508	508
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	12/94	+7	2.0	275	275
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	1/95	+3	1.7	551	551
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	2/95	+8	2.0	466	466
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	3/95	+1	1.9	577	577

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	9/94	+3	1.5	87	87
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	10/94	+6	1.9	149	149
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	11/94	-.7	1.5	424	424
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	12/94	-.7	1.6	232	232
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	1/95	+2	1.2	455	455
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	2/95	+0.0	1.1	396	396
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	3/95	+1	1.0	501	501

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	1/95	-.5	1.3	256	256
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	2/95	-.3	1.4	426	426
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	3/95	-.1	1.4	530	530

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	1/95	+3	1.7	213	213
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	2/95	+3	1.6	609	609
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	3/95	+3	2.0	836	836

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	1/95	+4	1.1	49	49
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	2/95	+1	1.6	643	643
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	3/95	+0.0	1.8	733	733

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	9/94	+5	1.7	112	112
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	10/94	-.1	1.4	137	137
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	11/94	-.4	1.4	396	396
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	12/94	-.2	1.5	223	223
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	1/95	+1	1.2	437	437
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	2/95	+2	1.1	394	394
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	3/95	+0.0	1.0	486	486

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	10/94	-.3	2.6	164	164
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	11/94	-.3	1.6	577	577
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	12/94	-.5	1.9	318	318
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	1/95	-.3	1.6	595	595
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	2/95	-.2	1.6	513	513
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	3/95	-.2	1.5	607	607

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	9/94	+ .4	2.0	50	50
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	10/94	+ .7	2.1	188	188
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	11/94	+ .3	2.0	571	571
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	12/94	+ .6	1.8	335	335
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	1/95	+ .5	1.7	637	637
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	2/95	+1.0	1.8	542	542
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	3/95	+ .5	2.1	691	691

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	9/94	+ .8	1.6	23	23
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	10/94	+ .5	2.2	135	135
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	11/94	- .3	1.4	436	436
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	12/94	- .7	2.3	265	265
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	1/95	+ .2	1.8	487	487
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	2/95	+ .2	1.4	409	409
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	3/95	+ .7	1.7	499	499

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	9/94	+ .3	1.2	83	83
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	10/94	+ .4	2.0	137	137
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	11/94	- .8	1.5	409	409
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	12/94	-1.2	2.0	224	224
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	1/95	- .3	1.4	458	458
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	2/95	- .5	1.3	409	409
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	3/95	- .4	1.0	510	510

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22587	33539	-44.1	6.7	SVPB	METOCEAN	AFS	9/94	+ .2	2.0	45	45
22587	33539	-44.1	6.7	SVPB	METOCEAN	AFS	10/94	+1.3	2.1	16	16

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	9/94	+ .5	1.7	90	90
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	10/94	+ .3	1.8	148	148
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	11/94	- .3	1.5	377	377
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	12/94	- .5	1.7	219	219
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	1/95	- .2	1.5	411	411
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	2/95	+ .1	1.1	367	367
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	3/95	+ .1	1.8	495	495

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	10/94	+0.0	1.9	163	163
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	11/94	- .1	1.5	538	538
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	12/94	- .2	1.7	312	312
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	1/95	- .1	2.1	607	607
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	2/95	+ .1	1.6	474	474
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	3/95	+ .6	1.5	593	593

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	10/94	+ .3	2.2	183	183
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	11/94	- .2	1.7	586	586
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	12/94	- .3	1.7	350	350
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	1/95	+2.7	5.4	640	639

22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	2/95	+8.5	10.0	379	353
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	3/95	+7.0	8.9	197	188

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	9/94	+1.4	3.1	113	113
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	10/94	+5	2.2	186	186
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	11/94	+1	2.2	511	511
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	12/94	+6	2.3	324	324
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	1/95	+4	2.0	563	563
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	2/95	+5	1.5	455	455
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	3/95	-.1	1.7	589	589

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	9/94	+3	1.4	108	108
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	10/94	+6	1.8	140	140
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	11/94	-.6	1.4	394	394
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	12/94	-.8	1.6	223	223
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	1/95	-.1	1.2	437	437
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	2/95	-.1	1.6	398	398
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	3/95	-.4	1.1	488	488

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	10/94	-.4	2.4	175	175
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	11/94	-.6	1.6	570	570
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	12/94	-.7	1.8	333	333
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	1/95	-.3	1.6	606	606
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	2/95	-.2	1.6	519	519
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	3/95	-.3	1.7	632	632

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	9/94	+6	1.9	91	91
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	10/94	+0.0	2.7	135	135
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	11/94	+1	1.6	398	398
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	12/94	+0.0	2.2	241	241
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	1/95	+0.0	1.8	475	475
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	2/95	+4	1.7	393	393
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	3/95	+9	1.8	488	488

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
23380	74531	-61.6	93.5	SVPB	TURO	AUST	11/94	-.1	1.9	283	283
23380	74531	-61.6	93.5	SVPB	TURO	AUST	12/94	+1	1.5	556	556
23380	74531	-61.6	93.5	SVPB	TURO	AUST	1/95	-.1	1.8	544	544
23380	74531	-61.6	93.5	SVPB	TURO	AUST	2/95	+1	1.4	497	497
23380	74531	-61.6	93.5	SVPB	TURO	AUST	3/95	-.1	2.2	571	571

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Acpt
23406	73505	-62.0	100.9	SVPB	TURO	AUST	11/94	+0.0	1.8	232	232
23406	73505	-62.0	100.9	SVPB	TURO	AUST	12/94	-.3	1.2	136	136

Comparison of observations with NOAA/NMC first guess field.

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
.14422	62515	44.3	341.4	SVPB	TECHNOCE	FRAN	3/95	+ .4	1.3	75	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	9/94	+ .6	1.3	41	
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	10/94	+ .5	1.3	243	
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	11/94	+ .7	1.4	377	
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	12/94	+1.0	1.7	418	
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	1/95	+1.2	2.8	333	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22037	31901	-37.5	.2	SVPB		USA	10/94	+ .2	1.1	29	
22037	31901	-37.5	.2	SVPB		USA	11/94	+ .7	1.6	42	
22037	31901	-37.5	.2	SVPB		USA	12/94	+ .9	2.1	59	
22037	31901	-37.5	.2	SVPB		USA	1/95	+ .6	1.6	53	
22037	31901	-37.5	.2	SVPB		USA	2/95	+1.0	1.1	10	
22037	31901	-37.5	.2	SVPB		USA	3/95	+0.0	.4	3	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22038	15901	-28.1	353.8	SVPB		USA	1/95	+ .2	.6	19	
22038	15901	-28.1	353.8	SVPB		USA	2/95	+ .7	1.1	8	
22038	15901	-28.1	353.8	SVPB		USA	3/95	+ .3	.8	5	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22040	33901	-49.8	60.6	SVPB		USA	10/94	- .6	2.7	57	
22040	33901	-49.8	60.6	SVPB		USA	11/94	+ .5	2.0	29	
22040	33901	-49.8	60.6	SVPB		USA	12/94	+ .5	2.7	91	
22040	33901	-49.8	60.6	SVPB		USA	1/95	+ .6	2.5	87	
22040	33901	-49.8	60.6	SVPB		USA	2/95	+ .1	3.5	51	
22040	33901	-49.8	60.6	SVPB		USA	3/95	+ .9	1.7	46	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22041	16936	-38.1	60.7	SVPB		USA	1/95	+ .6	1.6	17	
22041	16936	-38.1	60.7	SVPB		USA	2/95	+3.7	5.0	14	
22041	16936	-38.1	60.7	SVPB		USA	3/95	+8.7	9.6	6	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22042	16937	-38.3	73.2	SVPB		USA	1/95	- .6	2.4	13	
22042	16937	-38.3	73.2	SVPB		USA	2/95	-1.2	1.8	18	
22042	16937	-38.3	73.2	SVPB		USA	3/95	-1.2	1.8	11	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22090	33902	-56.7	57.7	SVPB		USA	10/94	- .8	2.2	38	
22090	33902	-56.7	57.7	SVPB		USA	11/94	- .4	1.5	30	
22090	33902	-56.7	57.7	SVPB		USA	12/94	-1.0	3.3	85	
22090	33902	-56.7	57.7	SVPB		USA	1/95	-1.9	4.4	86	
22090	33902	-56.7	57.7	SVPB		USA	2/95	+ .6	3.9	42	
22090	33902	-56.7	57.7	SVPB		USA	3/95	-3.4	6.0	34	
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt

22091	33903	-39.5	351.9	SVPB	USA	10/94	+0.0	1.9	29
22091	33903	-39.5	351.9	SVPB	USA	11/94	+.4	.9	22
22091	33903	-39.5	351.9	SVPB	USA	12/94	-.1	1.8	64
22091	33903	-39.5	351.9	SVPB	USA	1/95	-.4	1.3	52
22091	33903	-39.5	351.9	SVPB	USA	2/95	-.6	1.7	20
22091	33903	-39.5	351.9	SVPB	USA	3/95	-5.5	6.0	2

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22092	33904	-40.6	18.8	SVPB		USA	10/94	+.2	2.0	24	
22092	33904	-40.6	18.8	SVPB		USA	11/94	-.1	1.8	29	
22092	33904	-40.6	18.8	SVPB		USA	12/94	+.3	2.2	75	
22092	33904	-40.6	18.8	SVPB		USA	1/95	+.4	2.0	59	
22092	33904	-40.6	18.8	SVPB		USA	2/95	+1.4	2.0	21	
22092	33904	-40.6	18.8	SVPB		USA	3/95	+.7	1.8	19	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22093	33905	-54.7	53.6	SVPB		USA	10/94	+.1	2.6	39	
22093	33905	-54.7	53.6	SVPB		USA	11/94	-.8	3.8	31	
22093	33905	-54.7	53.6	SVPB		USA	12/94	-.4	2.8	91	
22093	33905	-54.7	53.6	SVPB		USA	1/95	-.2	2.5	84	
22093	33905	-54.7	53.6	SVPB		USA	2/95	-1.6	6.0	47	
22093	33905	-54.7	53.6	SVPB		USA	3/95	-.1	2.6	32	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22095	33906	-46.6	9.9	SVPB		USA	10/94	-.5	2.2	51	
22095	33906	-46.6	9.9	SVPB		USA	11/94	-.1	2.3	26	
22095	33906	-46.6	9.9	SVPB		USA	12/94	+.4	1.6	82	
22095	33906	-46.6	9.9	SVPB		USA	1/95	-.3	2.3	78	
22095	33906	-46.6	9.9	SVPB		USA	2/95	+.7	1.5	30	
22095	33906	-46.6	9.9	SVPB		USA	3/95	+.1	2.6	15	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22098	33907	-41.5	44.8	SVPB		USA	10/94	+1.0	2.3	42	
22098	33907	-41.5	44.8	SVPB		USA	11/94	+.9	1.4	32	
22098	33907	-41.5	44.8	SVPB		USA	12/94	+.8	1.8	69	
22098	33907	-41.5	44.8	SVPB		USA	1/95	+0.0	4.1	74	
22098	33907	-41.5	44.8	SVPB		USA	2/95	+1.8	2.2	24	
22098	33907	-41.5	44.8	SVPB		USA	3/95	+.4	1.6	19	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22100	33908	-39.2	62.3	SVPB		USA	11/94	+.5	2.0	33	
22100	33908	-39.2	62.3	SVPB		USA	12/94	+1.4	3.0	92	
22100	33908	-39.2	62.3	SVPB		USA	1/95	+.5	1.7	95	
22100	33908	-39.2	62.3	SVPB		USA	2/95	+.3	1.1	38	
22100	33908	-39.2	62.3	SVPB		USA	3/95	-1.5	4.9	30	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22101	33909	-47.4	102.4	SVPB		USA	10/94	-.7	4.2	40	
22101	33909	-47.4	102.4	SVPB		USA	11/94	-.4	6.1	28	
22101	33909	-47.4	102.4	SVPB		USA	12/94	-1.6	6.2	59	
22101	33909	-47.4	102.4	SVPB		USA	1/95	-3.6	6.7	68	
22101	33909	-47.4	102.4	SVPB		USA	2/95	+2.1	4.5	18	



Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22103	31904	-41.2	334.3	SVPB		USA	10/94	+ .4	1.7	34	
22103	31904	-41.2	334.3	SVPB		USA	11/94	- .8	2.0	25	
22103	31904	-41.2	334.3	SVPB		USA	12/94	- .7	1.5	57	
22103	31904	-41.2	334.3	SVPB		USA	1/95	+0.0	1.6	70	
22103	31904	-41.2	334.3	SVPB		USA	2/95	+0.0	.9	17	
22103	31904	-41.2	334.3	SVPB		USA	3/95	- .5	1.5	9	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22105	33943	-44.7	3.3	SVPB		USA	1/95	+0.0	1.7	9	
22105	33943	-44.7	3.3	SVPB		USA	2/95	- .2	.8	9	
22105	33943	-44.7	3.3	SVPB		USA	3/95	- .5	1.5	17	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22107	16938	-52.7	95.5	SVPB		USA	1/95	-1.5	4.6	18	
22107	16938	-52.7	95.5	SVPB		USA	2/95	- .1	2.4	37	
22107	16938	-52.7	95.5	SVPB		USA	3/95	- .5	4.1	21	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22108	31905	-47.1	2.9	SVPB		USA	10/94	+0.0	2.1	42	
22108	31905	-47.1	2.9	SVPB		USA	11/94	- .2	2.3	25	
22108	31905	-47.1	2.9	SVPB		USA	12/94	+0.0	1.5	53	
22108	31905	-47.1	2.9	SVPB		USA	1/95	- .4	1.9	56	
22108	31905	-47.1	2.9	SVPB		USA	2/95	+ .7	1.2	28	
22108	31905	-47.1	2.9	SVPB		USA	3/95	+0.0	1.7	29	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22109	31906	-52.2	5.2	SVPB		USA	10/94	- .1	2.0	55	
22109	31906	-52.2	5.2	SVPB		USA	11/94	+5.7	8.3	30	
22109	31906	-52.2	5.2	SVPB		USA	12/94	+8.6	9.7	72	
22109	31906	-52.2	5.2	SVPB		USA	1/95	+6.4	8.4	43	
22109	31906	-52.2	5.2	SVPB		USA	2/95	+9.7	10.2	2	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22110	31907	-48.7	22.8	SVPB		USA	10/94	+2.8	5.6	30	
22110	31907	-48.7	22.8	SVPB		USA	11/94	+2.2	4.0	20	
22110	31907	-48.7	22.8	SVPB		USA	12/94	+ .9	4.0	65	
22110	31907	-48.7	22.8	SVPB		USA	1/95	+ .2	6.4	80	
22110	31907	-48.7	22.8	SVPB		USA	2/95	+ .3	7.1	41	
22110	31907	-48.7	22.8	SVPB		USA	3/95	-5.7	7.5	10	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22111	31908	-36.9	347.7	SVPB		USA	10/94	+1.0	2.0	30	
22111	31908	-36.9	347.7	SVPB		USA	11/94	+1.2	2.4	26	
22111	31908	-36.9	347.7	SVPB		USA	12/94	+ .7	2.4	59	
22111	31908	-36.9	347.7	SVPB		USA	1/95	+2.0	2.8	50	
22111	31908	-36.9	347.7	SVPB		USA	2/95	+2.2	2.8	12	
22111	31908	-36.9	347.7	SVPB		USA	3/95	+2.9	3.6	6	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	9/94	- .4	1.9	88	
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	10/94	- .3	1.3	174	
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	11/94	+0.0	1.4	203	

22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	12/94	+0.6	1.3	116
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	1/95	+0.3	1.2	223
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	2/95	-0.2	1.0	27
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	3/95	-0.4	0.7	16

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	9/94	-0.9	2.3	54	
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	10/94	-0.4	1.9	238	
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	11/94	-0.4	2.6	305	
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	12/94	-0.1	2.0	165	
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	1/95	+0.1	1.9	317	
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	2/95	+0.6	2.5	122	
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	3/95	+0.8	1.8	82	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	9/94	+0.0	1.4	62	
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	10/94	+0.7	1.7	196	
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	11/94	+0.5	1.9	250	
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	12/94	+0.2	1.2	143	
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	1/95	+0.3	1.3	253	
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	2/95	-0.1	1.5	27	
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	3/95	+0.8	1.2	26	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	1/95	-0.6	1.3	130	
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	2/95	+0.0	1.2	79	
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	3/95	+0.1	1.6	69	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	1/95	+0.2	1.8	104	
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	2/95	-0.3	1.9	190	
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	3/95	+0.0	2.3	190	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	1/95	+0.0	1.9	28	
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	2/95	+0.1	2.1	198	
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	3/95	-0.3	2.1	136	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	9/94	+0.0	1.8	81	
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	10/94	+0.1	1.4	165	
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	11/94	+0.1	1.5	231	
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	12/94	+0.5	1.6	138	
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	1/95	+0.6	1.4	229	
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	2/95	-0.1	1.4	29	
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	3/95	+0.7	1.1	18	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	10/94	-0.2	2.1	236	
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	11/94	-0.3	1.9	315	
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	12/94	-1.6	2.6	183	
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	1/95	-0.3	1.8	314	
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	2/95	-0.2	1.9	124	

22583 17608 -45.6 357.8 SVPB METOCEAN AFS 3/95 +.1 1.8 81

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	9/94	+ .7	2.1	36	
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	10/94	+0.0	2.2	268	
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	11/94	+ .2	1.9	335	
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	12/94	+0.0	1.8	194	
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	1/95	+0.0	2.0	345	
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	2/95	+0.0	1.7	158	
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	3/95	- .4	3.3	132	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	9/94	+ .4	.9	15	
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	10/94	+ .2	1.9	185	
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	11/94	+ .4	1.6	245	
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	12/94	- .7	2.2	159	
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	1/95	+ .4	1.9	253	
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	2/95	+ .3	2.5	62	
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	3/95	+1.8	2.5	50	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	9/94	+0.0	1.3	60	
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	10/94	+ .7	1.8	183	
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	11/94	+ .5	1.5	248	
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	12/94	- .1	1.4	141	
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	1/95	+ .1	1.4	258	
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	2/95	- .3	1.3	33	
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	3/95	+ .2	.9	16	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22587	33539	-44.1	6.7	SVPB	METOCEAN	AFS	9/94	+0.0	1.8	29	
22587	33539	-44.1	6.7	SVPB	METOCEAN	AFS	10/94	+1.0	1.9	29	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	9/94	+ .2	2.1	67	
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	10/94	+0.0	1.8	191	
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	11/94	+ .3	1.9	233	
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	12/94	- .2	1.4	139	
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	1/95	+0.0	1.7	245	
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	2/95	+ .1	1.5	72	
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	3/95	+ .3	1.7	58	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	10/94	- .4	2.1	233	
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	11/94	- .1	2.1	298	
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	12/94	- .8	2.0	177	
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	1/95	- .3	2.3	304	
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	2/95	+ .5	2.1	118	
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	3/95	+1.4	2.4	96	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	10/94	- .2	2.4	227	
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	11/94	- .5	2.2	324	

22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	12/94	-.8	2.1	185
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	1/95	+2.7	5.3	328
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	2/95	+8.5	10.0	92
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	3/95	+7.4	9.4	22

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	9/94	+4	2.1	78	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	10/94	+0.0	2.3	256	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	11/94	+0.0	2.8	308	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	12/94	-.2	2.3	199	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	1/95	+6	2.1	322	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	2/95	+9	1.7	98	
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	3/95	+4	1.6	73	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	9/94	+0.0	1.8	78	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	10/94	+6	1.6	174	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	11/94	+7	1.7	242	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	12/94	+0.0	1.5	129	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	1/95	+2	1.4	240	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	2/95	+8	3.2	32	
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	3/95	+3	.9	21	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	10/94	-.4	2.2	231	
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	11/94	-.6	2.0	307	
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	12/94	-1.8	2.6	193	
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	1/95	-.5	2.0	305	
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	2/95	-.3	1.9	147	
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	3/95	-.2	1.6	105	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	9/94	+2	1.7	61	
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	10/94	+1	2.1	182	
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	11/94	+6	1.6	238	
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	12/94	-.9	2.1	137	
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	1/95	+0.0	2.2	251	
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	2/95	+4	1.7	75	
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	3/95	+1.3	2.1	64	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
23380	74531	-61.6	93.5	SVPB	TURO	AUST	11/94	+1.0	3.1	209	
23380	74531	-61.6	93.5	SVPB	TURO	AUST	12/94	+3	2.7	348	
23380	74531	-61.6	93.5	SVPB	TURO	AUST	1/95	+8	2.6	346	
23380	74531	-61.6	93.5	SVPB	TURO	AUST	2/95	-.2	2.0	221	
23380	74531	-61.6	93.5	SVPB	TURO	AUST	3/95	-.4	3.6	185	

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
23406	73505	-62.0	100.9	SVPB	TURO	AUST	11/94	+5	2.8	184	
23406	73505	-62.0	100.9	SVPB	TURO	AUST	12/94	+2.0	3.2	89	

Comparison of observations with METEO-FRANCE first guess field.

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
14422	62515	44.3	341.4	SVPB	TECHNOCE	FRAN	3/95	+ .7	1.1		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	9/94	+ .1	.5		
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	10/94	+ .3	.9		
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	11/94	+ .2	1.1		
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	12/94	+ .4	1.0		
14424	62512	44.6	349.3	SVPB	TECHNOCE	FRAN	1/95	+1.0	2.8		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22037	31901	-37.5	.2	SVPB		USA	10/94	+2.0	2.4		
22037	31901	-37.5	.2	SVPB		USA	11/94	+ .8	1.4		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22038	15901	-28.1	353.8	SVPB		USA	1/95	+1.4	1.9		
22038	15901	-28.1	353.8	SVPB		USA	2/95	+ .6	1.1		
22038	15901	-28.1	353.8	SVPB		USA	3/95	- .1	1.1		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22040	33901	-49.8	60.6	SVPB		USA	10/94	+2.9	3.4		
22040	33901	-49.8	60.6	SVPB		USA	11/94	+2.3	3.1		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22041	16936	-38.1	60.7	SVPB		USA	1/95	+1.6	2.1		
22041	16936	-38.1	60.7	SVPB		USA	2/95	+3.4	4.4		
22041	16936	-38.1	60.7	SVPB		USA	3/95	+6.7	6.9		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22042	16937	-38.3	73.2	SVPB		USA	1/95	+2.7	3.0		
22042	16937	-38.3	73.2	SVPB		USA	2/95	+ .9	2.2		
22042	16937	-38.3	73.2	SVPB		USA	3/95	+ .3	1.6		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22090	33902	-56.7	57.7	SVPB		USA	10/94	+3.8	4.3		
22090	33902	-56.7	57.7	SVPB		USA	11/94	+2.1	3.0		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22091	33903	-39.5	351.9	SVPB		USA	10/94	+3.2	3.6		
22091	33903	-39.5	351.9	SVPB		USA	11/94	+ .3	1.4		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22092	33904	-40.6	18.8	SVPB		USA	10/94	+3.1	4.0		
22092	33904	-40.6	18.8	SVPB		USA	11/94	+1.5	2.6		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22093	33905	-54.7	53.6	SVPB		USA	10/94	+4.7	5.2		
22093	33905	-54.7	53.6	SVPB		USA	11/94	+ .5	1.4		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22095	33906	-46.6	9.9	SVPB		USA	10/94	+3.6	4.0		
22095	33906	-46.6	9.9	SVPB		USA	11/94	+1.8	2.2		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22098	33907	-41.5	44.8	SVPB		USA	10/94	+2.5	3.1		
22098	33907	-41.5	44.8	SVPB		USA	11/94	+2	2.9		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22101	33909	-47.4	102.4	SVPB		USA	10/94	+3.1	3.9		
22101	33909	-47.4	102.4	SVPB		USA	11/94	-2.6	4.1		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22103	31904	-41.2	334.3	SVPB		USA	10/94	+1.7	2.7		
22103	31904	-41.2	334.3	SVPB		USA	11/94	-.6	3.6		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22105	33943	-44.7	3.3	SVPB		USA	2/95	+1.5	2.5		
22105	33943	-44.7	3.3	SVPB		USA	3/95	+1.7	3.2		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22107	16938	-52.7	95.5	SVPB		USA	1/95	+1.3	4.2		
22107	16938	-52.7	95.5	SVPB		USA	2/95	+2.6	3.5		
22107	16938	-52.7	95.5	SVPB		USA	3/95	+4.0	4.8		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22108	31905	-47.1	2.9	SVPB		USA	10/94	+3.6	4.2		
22108	31905	-47.1	2.9	SVPB		USA	11/94	+6	2.7		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22109	31906	-52.2	5.2	SVPB		USA	10/94	+1.8	3.2		
22109	31906	-52.2	5.2	SVPB		USA	11/94	+1.6	2.6		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22110	31907	-48.7	22.8	SVPB		USA	10/94	+2.5	4.5		
22110	31907	-48.7	22.8	SVPB		USA	11/94	-3.0	6.5		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22111	31908	-36.9	347.7	SVPB		USA	10/94	+2.0	2.4		
22111	31908	-36.9	347.7	SVPB		USA	11/94	+1.0	3.0		
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	9/94	+1.4	2.2		
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	10/94	+2.0	2.4		
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	11/94	+1.0	1.6		
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	12/94	+1.1	1.9		
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	1/95	+1.0	1.7		
22576	17603	-35.6	356.4	SVPB	METOCEAN	AFS	2/95	+7	1.6		

22576 17603 -35.6 356.4 SVPB METOCEAN AFS 3/95 +.1 1.5

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	9/94	+2.2	3.7		
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	10/94	+3.4	4.3		
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	11/94	+1.7	3.9		
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	12/94	+1.0	2.9		
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	1/95	+2.0	3.2		
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	2/95	+2.6	3.9		
22577	33537	-49.9	342.3	SVPB	METOCEAN	AFS	3/95	+2.3	3.4		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	9/94	+1.9	2.5		
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	10/94	+1.0	1.8		
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	11/94	+1.0	2.0		
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	12/94	+2.2	3.2		
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	1/95	+1.0	2.0		
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	2/95	+.5	1.6		
22578	33532	-36.7	345.6	SVPB	METOCEAN	AFS	3/95	+.7	1.5		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	1/95	+2.0	3.0		
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	2/95	+1.5	2.4		
22579	17612	-44.0	7.6	SVPB	METOCEAN	AFS	3/95	+1.6	2.8		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	1/95	+1.5	2.3		
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	2/95	+1.9	2.6		
22580	33541	-58.6	338.2	SVPB	METOCEAN	AFS	3/95	+1.4	2.9		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	1/95	+0.0	1.4		
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	2/95	+2.5	3.7		
22581	17613	-52.7	20.6	SVPB	METOCEAN	AFS	3/95	+2.7	3.8		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	9/94	+1.9	2.5		
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	10/94	+1.8	2.2		
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	11/94	+1.1	1.8		
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	12/94	+2.1	2.6		
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	1/95	+1.7	2.3		
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	2/95	+.9	1.7		
22582	17604	-35.6	354.4	SVPB	METOCEAN	AFS	3/95	+.6	1.7		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	10/94	+3.4	4.2		
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	11/94	+1.4	3.7		
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	12/94	+1.7	3.2		
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	1/95	+1.9	2.9		
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	2/95	+2.0	3.2		
22583	17608	-45.6	357.8	SVPB	METOCEAN	AFS	3/95	+1.5	3.0		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	9/94	+3.5	4.1		
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	10/94	+2.0	3.0		
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	11/94	+1.7	3.0		
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	12/94	+0.9	2.6		
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	1/95	+1.8	2.7		
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	2/95	+2.2	3.4		
22584	33538	-53.1	347.4	SVPB	METOCEAN	AFS	3/95	+2.7	3.7		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	9/94	+1.9	2.5		
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	10/94	+2.6	3.2		
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	11/94	+1.1	2.2		
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	12/94	+0.9	2.8		
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	1/95	+1.4	2.4		
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	2/95	+1.5	2.7		
22585	33540	-43.7	341.8	SVPB	METOCEAN	AFS	3/95	+1.4	2.8		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	9/94	+1.0	2.1		
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	10/94	+0.9	2.1		
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	11/94	+0.7	1.9		
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	12/94	+2.1	3.2		
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	1/95	+0.7	1.7		
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	2/95	+0.5	1.8		
22586	33533	-38.2	346.1	SVPB	METOCEAN	AFS	3/95	+0.5	1.2		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22587	33539	-44.1	6.7	SVPB	METOCEAN	AFS	9/94	+3.5	3.9		
22587	33539	-44.1	6.7	SVPB	METOCEAN	AFS	10/94	+3.5	4.0		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	9/94	+1.9	2.5		
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	10/94	+2.3	2.9		
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	11/94	+0.5	2.5		
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	12/94	+1.3	2.6		
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	1/95	+0.9	1.7		
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	2/95	+0.8	1.8		
22588	33534	-38.9	322.6	SVPB	METOCEAN	AFS	3/95	+1.1	2.3		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	10/94	+3.1	3.7		
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	11/94	+1.7	3.1		
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	12/94	+2.2	3.4		
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	1/95	+2.8	3.8		
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	2/95	+2.5	3.3		
22589	17607	-45.1	25.6	SVPB	METOCEAN	AFS	3/95	+3.2	3.8		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	10/94	+3.3	4.1		
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	11/94	+1.0	3.3		
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	12/94	+1.2	2.7		
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	1/95	+2.1	3.5		
22590	17610	-51.8	.9	SVPB	METOCEAN	AFS	2/95	+4.1	5.1		



22590 17610 -51.8 .9 SVPB METOCEAN AFS 3/95 +3.5 4.7

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	9/94	+1.9	3.6		
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	10/94	+3.6	4.3		
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	11/94	+1.7	3.6		
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	12/94	+1.0	3.3		
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	1/95	+1.5	2.7		
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	2/95	+2.9	3.8		
22591	33536	-47.4	.8	SVPB	METOCEAN	AFS	3/95	+2.3	3.4		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	9/94	+2.2	3.0		
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	10/94	+ .8	1.6		
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	11/94	+1.0	1.9		
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	12/94	+2.0	3.0		
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	1/95	+1.0	1.9		
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	2/95	+ .5	1.9		
22592	33531	-35.8	345.3	SVPB	METOCEAN	AFS	3/95	+ .3	1.2		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	10/94	+3.2	3.9		
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	11/94	+1.2	3.1		
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	12/94	+1.2	2.6		
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	1/95	+1.6	2.9		
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	2/95	+2.1	3.3		
22593	17609	-48.1	16.4	SVPB	METOCEAN	AFS	3/95	+2.6	3.7		

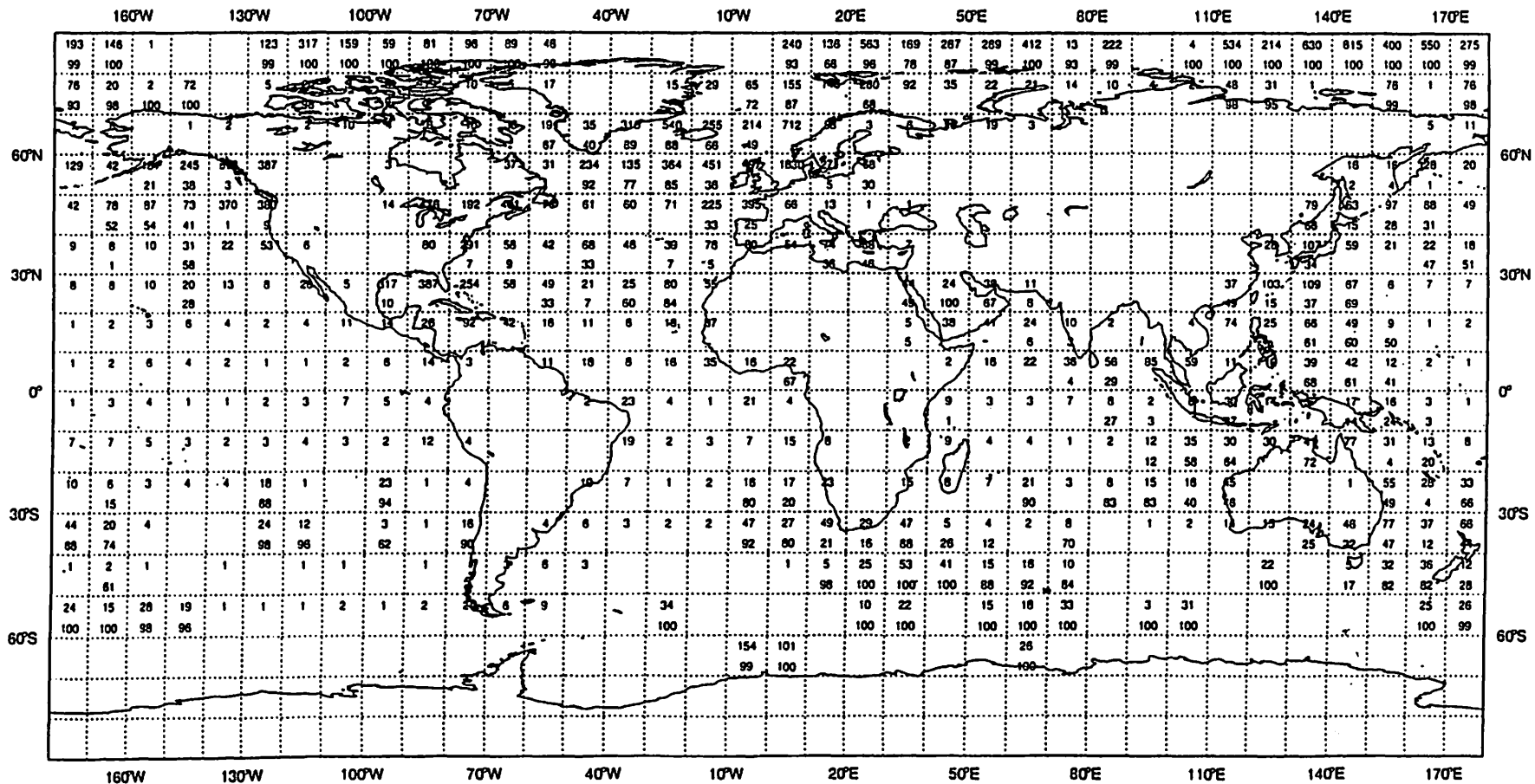
Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	9/94	+2.3	3.3		
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	10/94	+3.4	4.0		
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	11/94	+1.3	3.1		
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	12/94	+ .3	3.4		
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	1/95	+1.8	2.7		
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	2/95	+2.4	3.3		
22594	33535	-46.6	10.0	SVPB	METOCEAN	AFS	3/95	+2.1	3.2		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
23380	74531	-61.6	93.5	SVPB	TURO	AUST	11/94	-1.6	2.5		
23380	74531	-61.6	93.5	SVPB	TURO	AUST	12/94	-1.3	2.0		
23380	74531	-61.6	93.5	SVPB	TURO	AUST	1/95	-1.1	2.8		
23380	74531	-61.6	93.5	SVPB	TURO	AUST	2/95	-1.2	2.6		
23380	74531	-61.6	93.5	SVPB	TURO	AUST	3/95	-1.9	3.1		

Argos	WMO	Lat	Lon	BuoyType	Manufact	Cntry	Month	Bias	RMS	Total	Accpt
23406	73505	-62.0	100.9	SVPB	TURO	AUST	11/94	- .6	1.8		
23406	73505	-62.0	100.9	SVPB	TURO	AUST	12/94	- .2	1.1		

Marsden square distribution chart of mean monthly data availability index (top)  
(Index 100 = 8 obs. per day per 500km \* 500km area of SHIP and DRIFTER reports)

and  
Percentage of DRIFTER reports compared to SHIP+DRIFTER reports (bottom)





METEO FRANCE

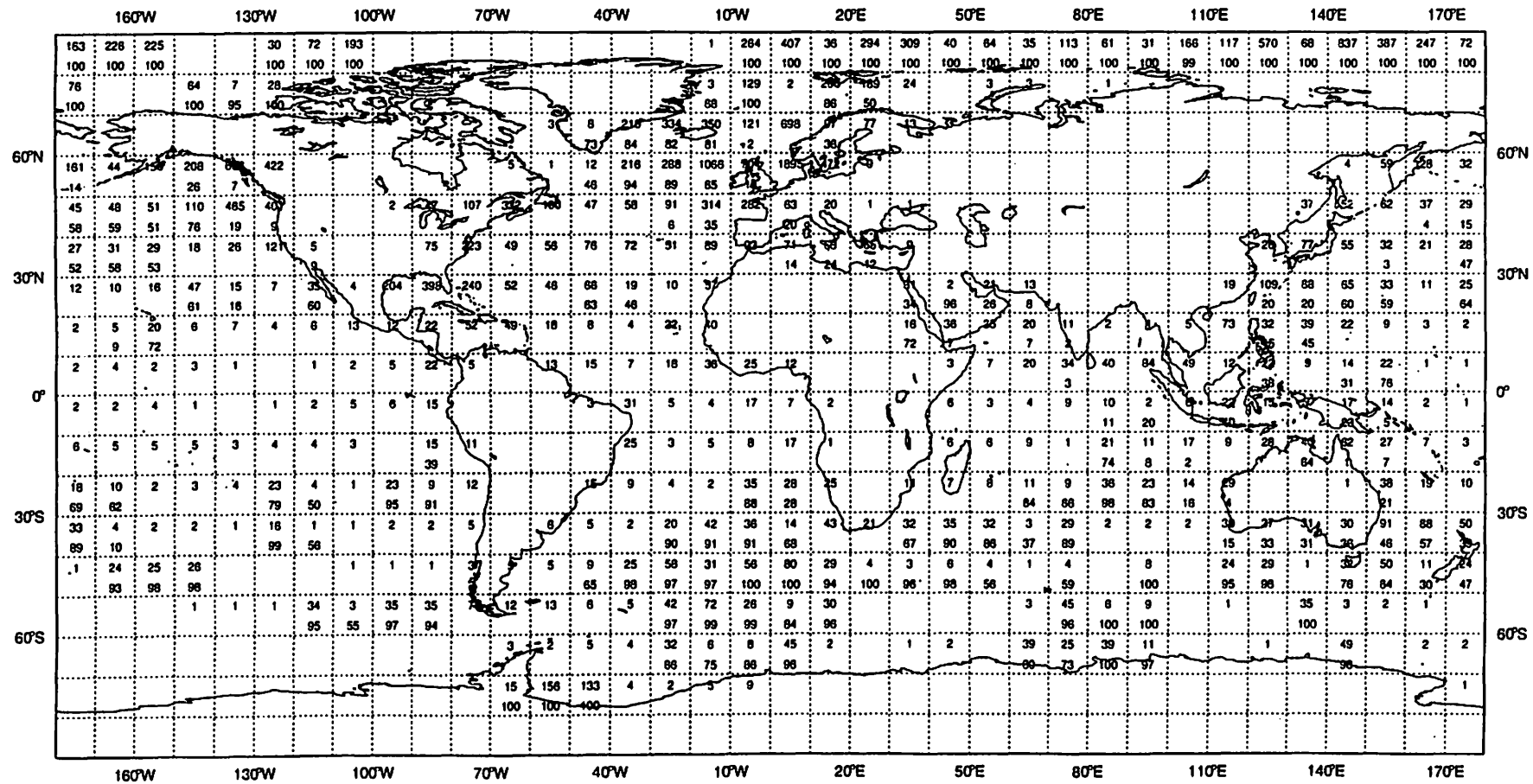
METEO - FRANCE

PRESSURE

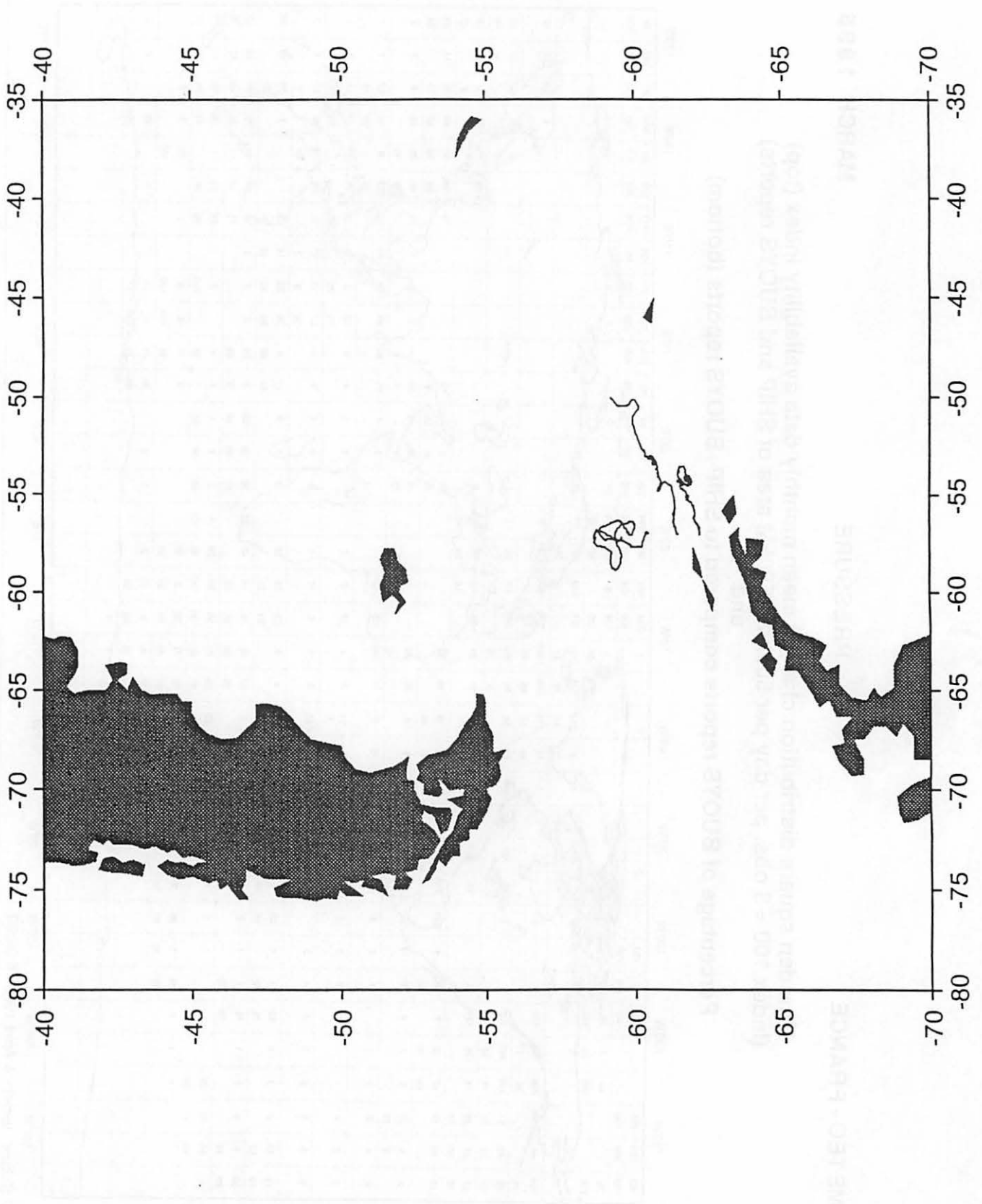
MARCH 1995

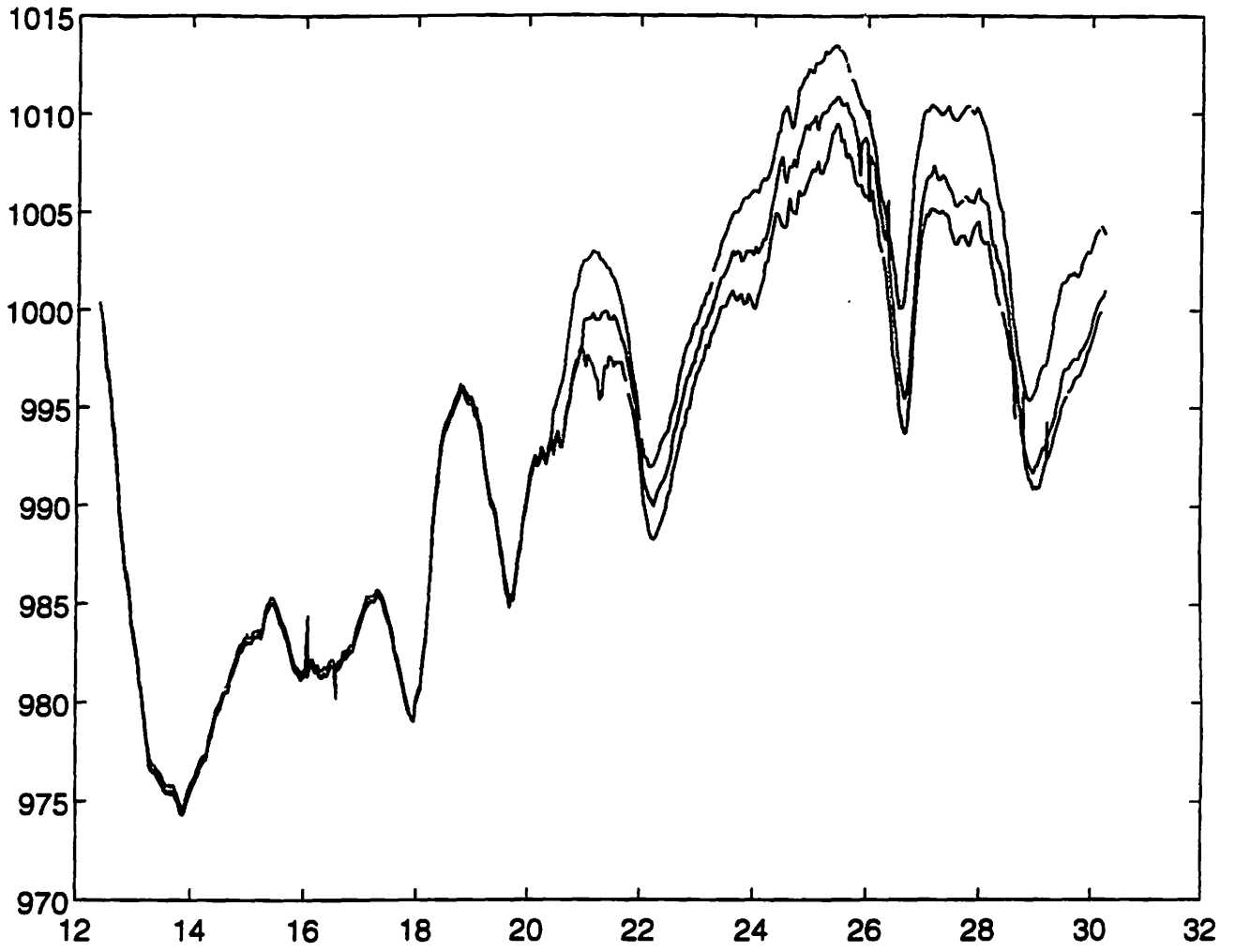
Marsden square distribution chart of mean monthly data availability index (top)  
(Index 100 = 8 obs. per day per 500km \* 500km area of SHIP and BUOYS reports)

and  
Percentage of BUOYS reports compared to SHIP+BUOYS reports (bottom)



APPENDIX 8.

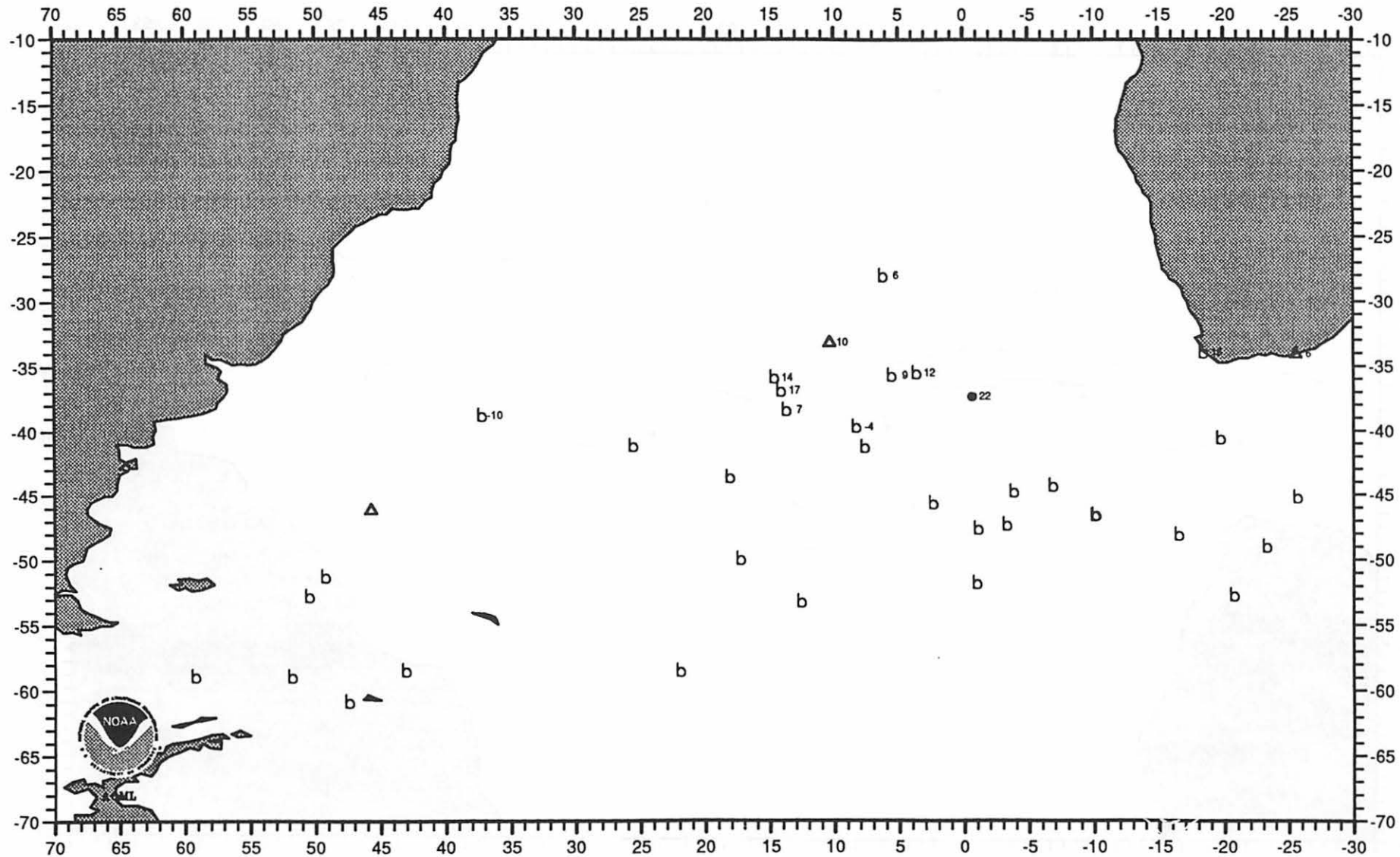




Location of U.S. deployed SVP-B drifting buoys

Argos ID	Lat	Lon	Class	JD/GMT	
				Sensor	Position
22037	37.272S	0.613E	1	120/2018Z	120/2013
22038	27.962S	6.194W	2	120/2154Z	120/2015
22040	49.656S	61.039E	1	121/0056Z	121/0053
22041	38.041S	60.875E	0	121/0408Z	121/0407
22042	38.306S	72.919E	2	121/0229Z	121/0229
22043	47.593S	137.906E	2	121/0400Z	121/0357
22044	31.884S	110.389E	1	121/0731Z	121/0727
22045	51.197S	49.207W	2	121/0338Z	121/0335
22046	60.772S	47.382W	1	121/0425Z	121/0425
22047	58.427S	43.039W	1	121/0425Z	121/0424
22048	58.819S	59.156W	0	121/0514Z	121/0338
22049	58.869S	51.769W	0	121/0426Z	121/0426
22050	52.697S	50.454W	0	121/0703Z	121/0701
22051	47.022S	144.427E	1	121/0544Z	121/0540
22052	54.576S	151.328E	1	121/0219Z	121/0215
22055	51.380S	124.717E	0	121/0545Z	121/0540
22058	45.127S	139.353E	1	121/0405Z	121/0400
22059	34.826S	54.843E	2	120/2229Z	120/2224
22060	41.399S	103.059E	1	121/0052Z	121/0049
22061	38.976S	113.377E	1	121/0549Z	121/0544
22062	39.480S	99.615E	2	121/0547Z	121/0543
22063	47.769S	56.185E	2	120/2233Z	120/2228
22064	39.289S	70.168E	0	121/0727Z	121/0726
22065	43.528S	89.748E	2	121/0724Z	121/0722
22066	38.405S	83.249E	1	121/0233Z	121/0229
22069	33.904S	18.441E	1	120/2015Z	120/2013
22071	60.201S	73.333E	1	121/0239Z	121/0235
22072	54.553S	65.078E	0	121/0416Z	121/0415
22073	45.958S	69.299E	1	121/0723Z	121/0723
22090	56.348S	58.008E	0	121/0418Z	121/0415
22091	39.625S	8.291W	0	121/0331Z	120/0200
22092	40.559S	19.746E	1	121/0153Z	121/0150
22093	54.307S	54.149E	0	121/0239Z	121/0234
22095	46.487S	10.166E	1	121/0419Z	121/0415
22097	44.752S	118.568E	2	121/0401Z	120/1004
22098	41.241S	45.911E	2	121/0415Z	121/0411
22099	35.971S	94.533E	0	121/0230Z	121/0228
22100	38.829S	62.285E	1	121/0414Z	121/0410
22101	47.367S	102.638E	0	121/0056Z	121/0050
22103	41.090S	25.541W	0	120/2158Z	120/2153
22104	44.823S	68.246E	0	121/0415Z	121/0413
22105	44.678S	3.899E	0	120/2233Z	120/2231
22106	43.044S	77.716E	1	121/0233Z	121/0230
22107	52.694S	96.569E	0	121/0234Z	121/0233
22108	47.239S	3.330E	2	121/0015Z	121/0011
22110	48.954S	23.293E	0	120/2232Z	120/2229
22111	36.921S	12.257W	0	110/1251Z	109/1913
22113	33.725S	88.004E	0	120/2046Z	120/2041
22114	50.041S	101.665E	1	121/0727Z	121/0722
22115	52.203S	109.446E	1	121/0726Z	121/0721
22116	51.091S	122.170E	0	121/0400Z	121/0357
22117	54.984S	121.790E	1	121/0533Z	120/1952

# GLOBAL DRIFTER PROGRAM Population Map



Δ = REGULAR BUOY

b = BAROMETER

ϖ = SALINITY

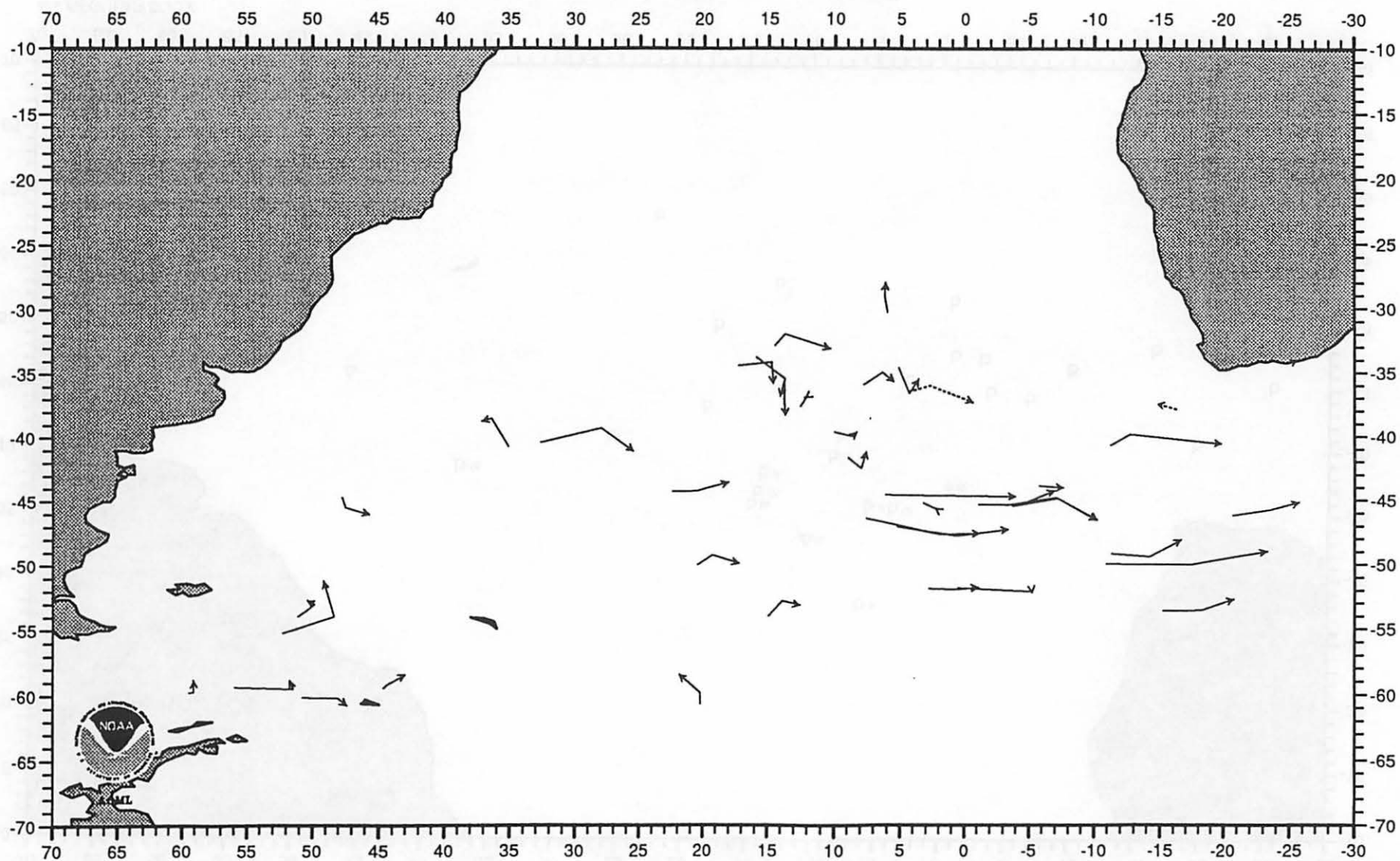
▽ = BODEGA

SST anomaly (COADS) at end of interval in degrees c X 10

MAY 01, 1995

NOTE: No SST anomalies are plotted above 60N or below 40S, or if buoy does not have SST sensor, or no SST calibration is available at this time

# GLOBAL DRIFTER PROGRAM



Mixed-layer drifting buoy displacements by two-week segments

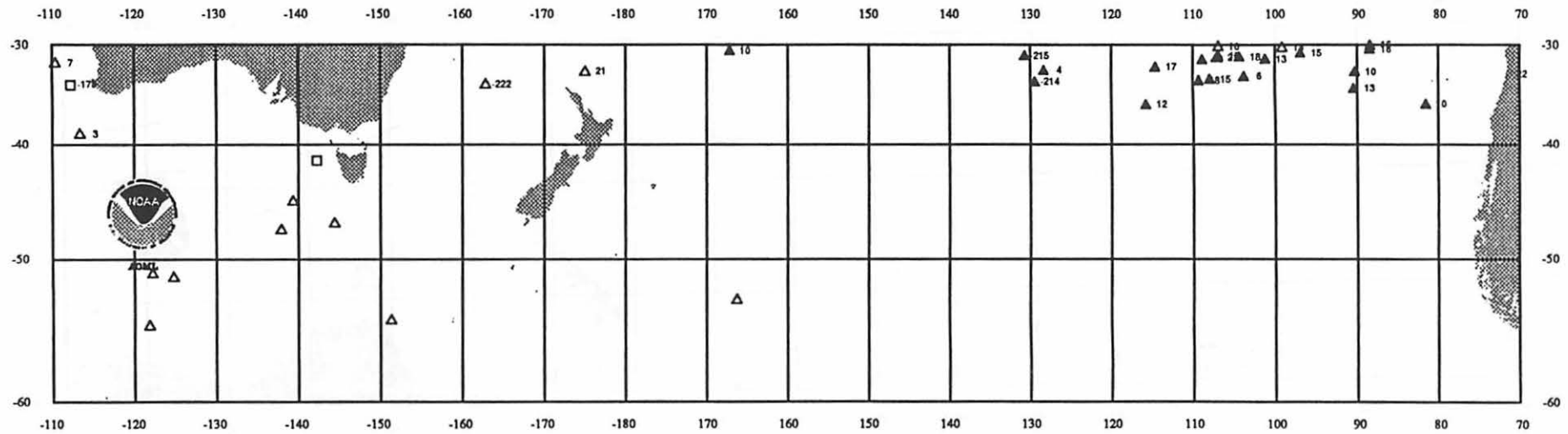
—— Drogued buoys

----- Buoys with drogue lost or unknown

APR 03-MAY 01 1995



# GLOBAL DRIFTER PROGRAM Population Map



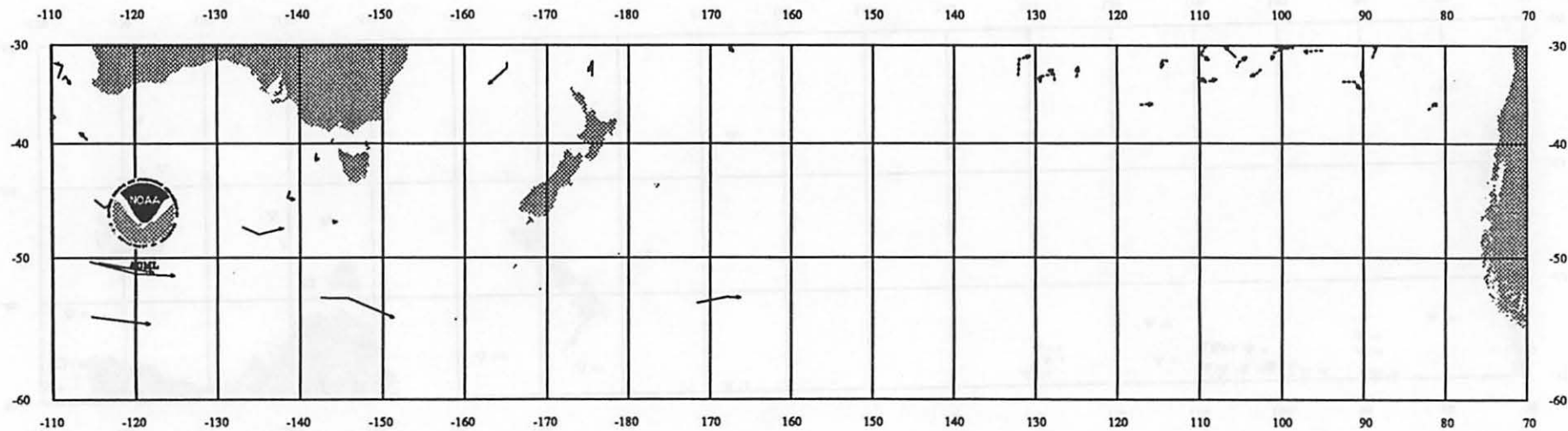
SST anomaly (COADS) at end of Interval in degrees c X 10

MAY 01, 1995

- ◊ - AOML-SPAR
- - CANADIAN EXP 9411
- ▲ - REGULAR
- ★ - TRISTAR
- - TOYOCOM
- ◻ - MOONRAKER
- ▼ - BODEGA
- ⊕ - KOREAN EXP 1002
- b - BAROMETER
- ⊖ - SALINITY

NOAA  
NATIONAL OCEANOGRAPHIC AND  
ATMOSPHERIC ADMINISTRATION  
U.S. DEPARTMENT OF COMMERCE  
WASHINGTON, D.C. 20513  
TELEPHONE 301-713-3200  
FACSIMILE 301-713-3200  
WWW.NOAA.GOV

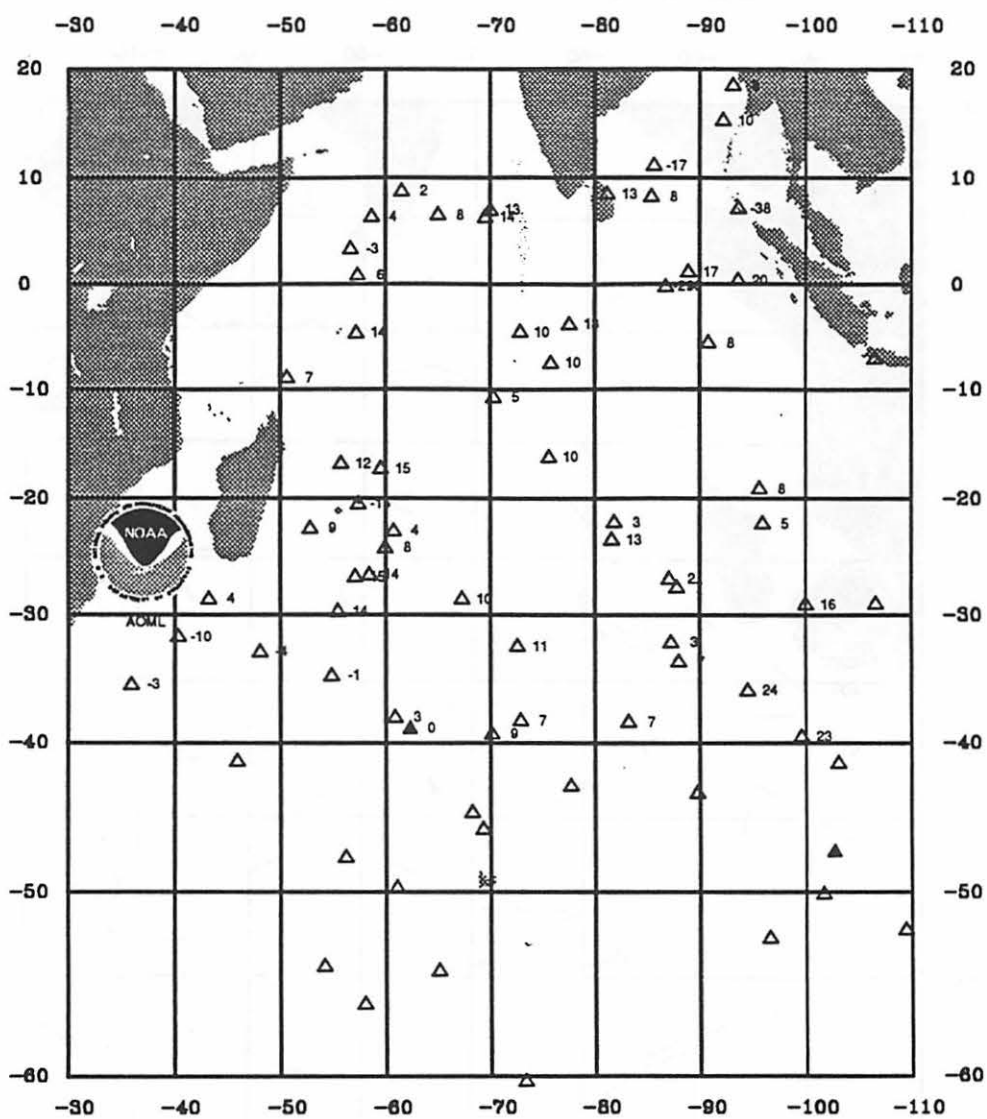
## GLOBAL DRIFTER PROGRAM



Mixed-layer drifting buoy displacements by two-week segments  
—— Drogued buoys  
—— Buoys with drogue lost or unknown

APR 03-MAY 01 1995

# GLOBAL DRIFTER PROGRAM Population Map



△ = REGULAR  
b = BAROMETER  
g = SALINITY

SST anomaly (COADS) at end of interval in degrees c X 10  
MAY 01, 1995

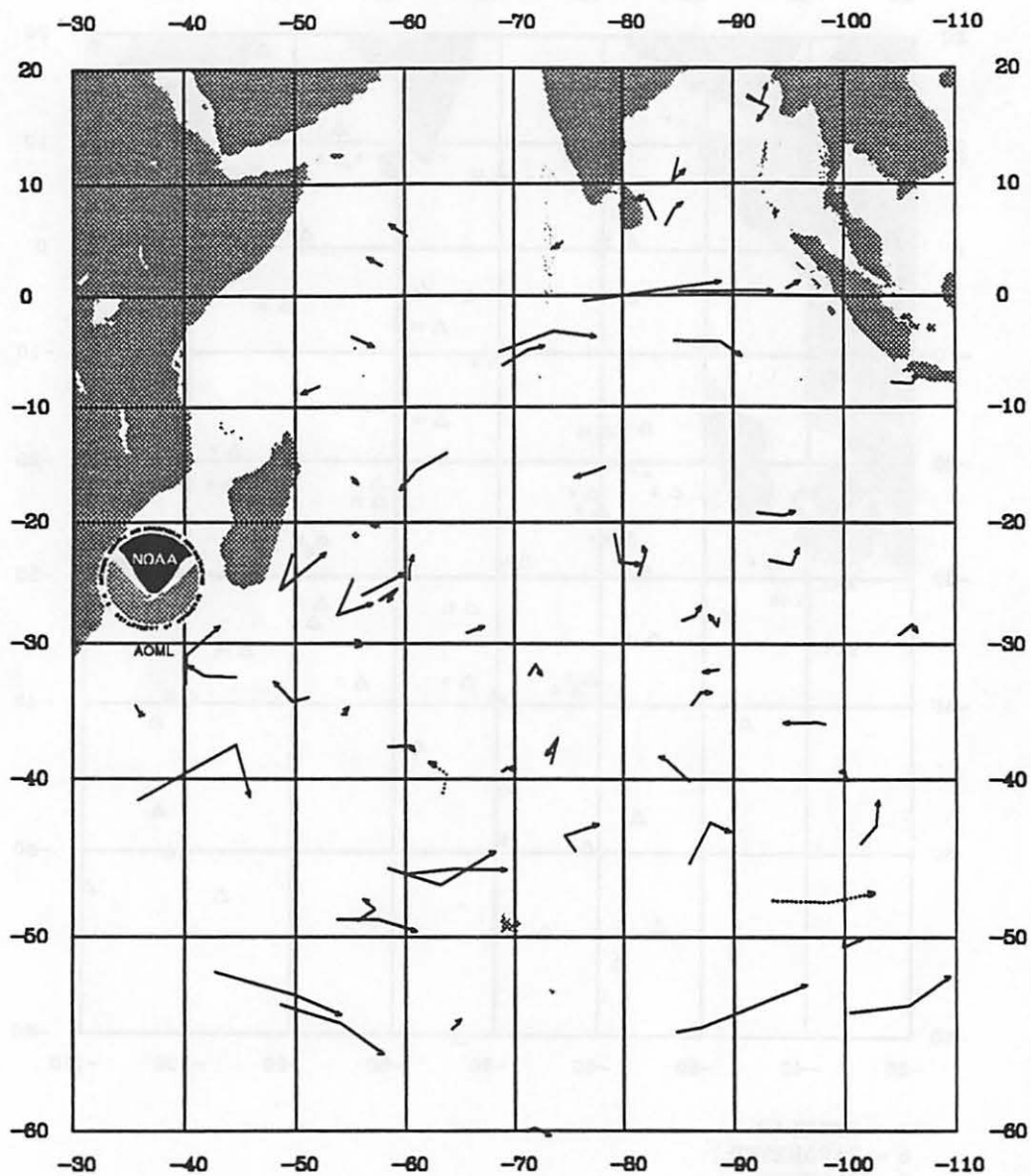
## TECHNICAL DOCUMENTS ISSUED WITHIN THE DATA BUOY CO-OPERATION PANEL SERIES

No.	Title	Year of issue
1	Annual report for 1994	1995
2	Reference Guide to the GTS Sub-system of the Argos Processing System	1995
3	Guide to Data Collection and Location Services using Service Argos	1995
4	WOCE Surface Velocity Programme Barometer Drifter Construction Manual	1995
5	Surface Velocity Programme (SVP) - DBCP/SIO Workshop on SVP barometer drifter evaluation	1996

**These publications can be ordered from: Etienne Charpentier, Technical Co-ordinator of the DBCP, CLS/Service Argos, 18, Av. E. Belin, 31055 Toulouse Cédex, FRANCE - Email [charpentier@atlas.cnrs.fr](mailto:charpentier@atlas.cnrs.fr) fax +33 61 751 014**



# GLOBAL DRIFTER PROGRAM



Mixed-layer drifting buoy displacements by two-week segments

———— Drogued buoys

———— Buoys with drogue lost or unknown

APR 03-MAY 01 1995