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Quality Evaluation Section

**FORTY-FOURTH QUARTERLY REPORT
ON DRIFTING BUOYS
IN THE NORTH ATLANTIC**

OCTOBER TO DECEMBER 1997

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16th February 1998

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1. INTRODUCTION

Drifting buoys operated by European countries, the United States, Canada and E.G.O.S. (European Group on Ocean Stations) provide valuable meteorological data in the North Atlantic Ocean. This report is a summary of the performance of these buoys giving information on the number of buoys operating, the accuracy of reported locations and data quality, timeliness and availability. It is compiled by looking at observations received in the Met. Office Meteorological Data Bank (Met.D.B.) and by comparisons of observations with background fields from the Met. Office forecast model. Additional information on buoy operations and data quality is extracted from E.G.O.S. Technical Secretariat reports.

2. GENERAL PERFORMANCE

The following few sub-sections describe the general performance of the drifting buoys throughout the quarter.

(a) Location Accuracy

The location accuracy was good with 59 out of 66 of the buoys reporting having a '% of observations with acceptable positions' greater than 95% (compared to 50 out of 56 last quarter).

(b) Data timeliness

(see note 9 of section 5 for definition of terms.)

Timeliness	Last quarter.	This quarter
Very Good	37	50
Good	12	9
Satisfactory	5	4
Poor	1	2
Very poor	1	1
Total no. of buoys	56	66

(c) Data availability

(see note 9 of section 5 for definition of terms.)

Availability	South of 50 deg N		North of 50 deg N	
	Previous Quarter	Present Quarter	Previous Quarter	Present Quarter
Very Good	--	3	12	21
Good	5	2	13	10
Satisfactory	11	8	1	2
Poor	6	6	4	9
Very Poor	--	2	4	3

The total number of buoy days in the quarter was 4,359 [obtained by summing the number of reporting days for each buoy] (last quarter the total was 4,655) and the number of 'buoy hours' with at least one observation was 65,790 (compared with 67,761 last quarter). Thus, the mean number of hours per day, for days with at least one observation (averaged over all buoys operating in the area) was 15.09 (last quarter the figure was 14.56).

3. SUMMARY OF PRESSURE PERFORMANCE

(a) Buoy deployments, etc.

NOTE

Although buoys 44727, 62803, 64528, 64563, 65594 and 65597 (all north of 50 degN) were reporting at the beginning of the period, pressure data failed to reach the Observation Processing Databanks (OPD) until 21/10, 21/10, 16/10, 10/10, 25/10 and 4/10 respectively.

North of 50deg N

There were 30 buoys reporting pressure at the beginning of the period. This figure includes buoys 62558 which drifted north of 50 degN during this quarter. The figure also includes the buoys from the note above. 37 buoys were operating at the end of the period. 15 new buoys were deployed (44609, 44614, 44616, 44617, 44761, 44765, 44766, 44780, 62673, 62674, 62929, 64530, 64552, 65591 and 65592) (Note : Buoy 62929 was reporting on the first day of the period but failed to report pressure data until 2/11). 8 buoys ceased reporting pressure (44513, 44608, 44613, 44726, 44925, 62712, 62804 and 62927). (Buoy 62927 ceased reporting pressure on 16/12 but continued to report other elements until the end of the quarter.)

South of 50deg N

There were 17 buoys reporting pressure at the beginning of the period. Buoys 62556 and 62697 drifted south of 50 degN during the period. Buoy 41529 which was reporting on the last day of last quarter failed to report during this period. 14 buoys were reporting at the end of the period. 4 new buoys were deployed (44610, 44763, 44776 and 51632). 7 buoys ceased reporting (13911, 41922, 44605, 51632, 62515, 62570 and 62713). (Buoy 62515 ceased reporting pressure on 10/11 but continued to report other elements until the end of the period.)

(e) Data Quality - Pressure

Revised RMS Differences

The technique used to assess the quality of pressure data in this report is based on the Revised RMS differences between the observations and the background field from the Global Forecast Model (see note 8 in Explanatory Notes). For buoys south of 50 degN the Revised RMS differences should be less than 2.0 hPa and for buoys north of 50 degN they should be below 3.0 hPa. The buoys whose revised RMS difference were found to lie outside these limits have had their performance described as 'suspect' and are included in the section below. Examination of the time-series plots (see Annex B) indicates the performance of these buoys:-

- 44726 - Only 7 reports were produced by this buoy, producing an RMS value of 3.5 hPa.
- 44776 - This buoy only produced 13 observations, all of which were erroneous.
- 44912 - Data from this buoy showed a larger than normal scatter throughout the period.
- 51632 - This buoy only produced 6 pressure observations, all of which showed a pressure bias of approximately -3.0 hPa.
- 62515 - Data became erratic from the beginning of November until 10th November, when the buoy stopped reporting pressure.
- 62929 - Data from this buoy showed a larger than normal scatter from 2nd November until the end of the period.
- 65592 - Data from this buoy were quite erratic from the start of its life on 28th November until the end of the period.

Biases

14 buoys (excluding those mentioned in the previous section) showed pressure biases greater than 0.5 hPa (pressure biases are determined using the mean value for unflagged data from Annex A). Those buoys whose pressure data showed a bias of greater than 0.5 hPa have also had their performance described as 'suspect'.

WMO No.	Buoy bias (hPa)	Ship bias (hPa)	Period of reports
13903	+1.0	-0.1	01/10 - 31/12
13910	-1.3	+0.3	01/10 - 31/12
13911	+0.8	+0.3	01/10 - 18/10
41922	+1.2	+0.3	01/10 - 09/10
44605	+1.0	+0.2	01/10 - 07/10
44608	+0.6	+0.5	01/10 - 17/11
44614	+0.6	+0.2	23/12 - 31/12
44901	+1.3	+0.3	01/10 - 31/12
44911	+0.6	0.0	01/10 - 31/12
44925	+1.1	+0.5	01/10 - 30/12
62712	+0.6	-0.2	01/10 - 15/10
62713	-1.4	+0.5	01/10 - 05/11
62927	+0.8	-0.1	01/10 - 31/12
64552	+0.6	+0.5	12/12 - 31/12

The ship bias represents the mean pressure biases reported from ships within a radius of 500 nautical miles of the mean position of each buoy.

(4) Air Temperatures and Sea Surface Temperatures

The following table shows the mean and standard deviation of observation minus background differences for air temperatures and sea surface temperatures. Figures in brackets are for the observations from voluntary observing ships within a radius of about 500 nautical miles of the mean position of each buoy.

(Note : The calculations below include gross errors. Therefore, in some instances, the figures may be slightly misleading.)

WMO No.	Air Temperature			Sea Surface Temperature		
	Mean	St. Dev	No. of Obs	Mean	St. Dev.	No. of Obs
13903	---	---	---	0.1(0.3)	0.3(1.3)	277 (63)
13910	---	---	---	0.2(0.2)	0.3(1.0)	274 (100)
13911	---	---	---	0.1(0.2)	0.2(1.0)	53 (98)
41922	---	---	---	0.6(0.1)	0.3(1.1)	24 (134)
44513	0.0(1.2)	0.8(7.1)	602 (761)	0.2(1.7)	0.5(13.4)	713 (586)
44605	---	---	---	-0.4(0.4)	0.2(6.7)	112 (87)
44608	---	---	---	0.1(1.5)	0.3(11.6)	1298 (112)
44609	---	---	---	0.4(-0.1)	0.7(5.1)	456 (142)
44610	---	---	---	-1.3(-0.4)	0.8(3.4)	250 (208)
44613	-0.3(0.8)	3.8(1.9)	334 (54)	0.9(2.0)	4.7(12.1)	311 (51)
44614	---	---	---	0.1(0.6)	0.2(5.7)	142 (103)
44616	---	---	---	0.3(-0.4)	1.1(2.6)	2522 (168)
44617	-1.2(0.2)	9.8(2.4)	1438 (45)	0.4(-0.4)	1.3(2.6)	1358 (167)
44621	-0.2(-0.5)	1.1(10.0)	2276 (91)	---	---	---
44624	---	---	---	-0.4(1.3)	0.8(9.8)	3967 (330)
44726	4.9(0.3)	1.6(1.8)	4 (101)	-0.7(-0.5)	0.3(9.9)	11 (93)
44727	0.6(0.5)	1.1(1.6)	4934 (87)	0.2(1.0)	0.7(9.8)	6088 (85)
44728	-0.4(-0.1)	1.3(1.1)	4148 (160)	0.6(2.1)	0.7(12.3)	4161 (135)
44742	0.1(0.5)	1.0(3.8)	2062 (386)	1.0(0.0)	0.9(1.8)	2025 (351)

Statistics of (ob-bg) differences for buoys reporting this
quarter and all ships within 500 nautical miles

WMO No.	Air Temperature			Sea Surface Temperature		
	Mean	St. Dev	No. of Obs	Mean	St. Dev.	No. of Obs
44743	---	---	---	-0.9(0.0)	2.9(8.1)	1904 (624)
44760	-0.2(-0.2)	0.8(1.9)	993 (137)	-0.7(-0.6)	0.5(2.4)	1299 (143)
44761	---	---	---	0.6(0.7)	1.5(8.8)	585 (292)
44762	-0.2(0.6)	1.1(3.9)	2140 (426)	---	---	---
44763	---	---	---	-0.3(-0.4)	1.4(2.7)	1588 (174)
44765	---	---	---	-0.2(0.2)	0.7(1.6)	2657 (72)
44766	---	---	---	1.0(-0.4)	0.5(2.5)	120 (158)
44768	---	---	---	-0.3(0.8)	0.7(9.5)	3667 (91)
44769	-0.1(-0.5)	3.3(8.6)	3347 (119)	0.7(0.3)	0.9(5.7)	3256 (120)
44771	---	---	---	-0.1(1.5)	1.0(10.6)	2935 (99)
44773	0.4(0.5)	1.0(1.7)	4427 (78)	-2.1(1.0)	0.8(10.4)	4262 (75)
44775	0.5(0.7)	1.5(2.2)	4522 (66)	-0.4(0.2)	1.1(1.5)	3861 (66)
44776	---	---	---	8.0(0.2)	5.4(8.7)	23 (668)
44780	0.2(-0.8)	1.8(9.4)	1722 (103)	-0.1(0.5)	1.0(5.5)	1596 (112)
44901	---	---	---	0.6(-0.4)	0.5(7.7)	506 (180)
44911	---	---	---	---	---	---
44912	---	---	---	-0.2(1.4)	0.4(11.1)	477 (91)
44925	---	---	---	1.1(-0.5)	0.7(9.9)	350 (93)
51632	15.8(0.4)	2.3(1.9)	5 (197)	6.5(0.2)	1.4(2.8)	7 (272)
62515	---	---	---	-0.2(0.5)	0.3(6.1)	1336 (385)

Statistics of (ob-bg) differences for buoys reporting this
quarter and all ships within 500 nautical miles

WMO No.	Air Temperature			Sea Surface Temperature		
	Mean	St. Dev	No. of Obs	Mean	St. Dev.	No. of Obs
62552	-0.1(0.7)	0.6(4.2)	2065 (628)	0.1(0.7)	0.1(9.5)	2836 (534)
62553	-0.3(-0.6)	0.9(8.4)	1591 (126)	-0.2(0.2)	0.2(5.5)	2194 (129)
62554	---	---	---	-0.1(0.6)	0.4(8.3)	2453 (527)
62555	---	---	---	-0.1(0.5)	3.6(5.8)	2504 (416)
62556	---	---	---	0.2(0.5)	2.7(6.9)	2975 (170)
62557	---	---	---	0.2(1.0)	2.9(8.0)	2569 (237)
62558	---	---	---	---	---	---
62570	---	---	---	-0.1(0.5)	0.2(5.8)	1237 (414)
62673	8.9(0.6)	11.8(2.0)	239 (81)	3.7(1.3)	7.9(9.8)	258 (80)
62674	12.0(0.4)	16.9(1.6)	230 (96)	2.7(0.8)	7.6(9.4)	240 (92)
62697	-0.4(-1.2)	1.4(11.2)	2620 (71)	-0.9(0.7)	1.5(7.0)	2610 (77)
62712	---	---	---	-0.3(1.0)	0.8(10.9)	267 (543)
62713	---	---	---	---	---	---
62803	-0.1(0.7)	1.2(6.4)	4953 (330)	0.1(-0.3)	1.3(8.4)	6196 (251)
62804	-0.2(1.1)	3.3(7.0)	1412 (781)	---	---	---
62927	---	---	---	-0.2(0.3)	0.3(9.6)	509 (686)
62929	---	---	---	0.0(1.6)	0.3(11.2)	526 (89)
64528	0.0(0.6)	1.7(2.0)	4912 (84)	0.0(1.1)	0.6(9.9)	3692 (83)
64530	---	---	---	1.0(1.7)	0.4(11.5)	867 (57)
64552	---	---	---	0.4(1.1)	0.2(10.6)	677 (72)

Statistics of (ob-bg) differences for buoys reporting this
quarter and all ships within 500 nautical miles

WMO No.	Air Temperature			Sea Surface Temperature		
	Mean	St. Dev	No. of Obs	Mean	St. Dev.	No. of Obs
64561	---	---	---	-0.1(0.1)	1.3(5.2)	2982 (133)
64563	-0.1(0.4)	1.8(1.8)	4886 (99)	-0.1(-0.4)	0.5(9.7)	3327 (97)
65591	0.5(0.5)	1.1(2.2)	570 (65)	1.1(0.0)	1.2(1.8)	507 (61)
65592	3.9(0.7)	11.7(2.1)	1222 (70)	0.0(0.2)	1.9(1.5)	924 (70)
65594	0.1(0.0)	1.4(1.3)	4953 (124)	0.0(1.7)	0.9(10.9)	6492 (109)
65596	0.3(-1.0)	1.2(8.4)	1419 (132)	0.6(0.0)	1.4(5.2)	860 (149)
65597	0.0(0.2)	1.9(1.8)	4862 (132)	-0.1(-0.1)	0.7(8.3)	3068 (137)

Air Temperature Summary

Buoys 44726 (4.9) and 51632 (15.8) both showed a significant air temperature bias. However, only 4 observations and 5 observations respectively were reported by these buoys.

Buoy 44617 (-1.2) produced a large number of gross errors during the early part of its reporting life. Data from buoy 62804 became erratic towards the end of its life on 13/11. A large number of gross errors were reported by buoys 62673 (8.9) and 62674 (12.0) between the 4/12 and 10/12. Buoy 65592 also produced a large number of gross errors between 12/12 and 30/12.

Air temperature data from buoy 44769, reported via the Oslo LUT were approximately 12°C too low from the start of the period until 12/11.

Sea Surface Temperature Summary

Buoys 44610 (-1.3), 44742 (1.0), 44766 (-2.1), 44773 (-2.1), 44776 (8.0), 44925 (1.1), 51632 (6.5), 64530 (1.0) and 65591 (1.1) all showed a significant sea surface temperature bias. However, only 7 reports were received from buoy 51632.

A large number of gross errors were reported by buoys 62673 (3.7) and 62674 (2.7) between the 4/12 and 10/12.

SST data from buoy 62697, reported via the Sondre Stromfjord LUT were approximately 1.5°C higher than reports from other LUTs, producing a second 'trace' on the sea surface temperature graph in Annex D.

(5) Winds

The following table shows the mean and standard deviation of observation minus background differences for wind speed and direction. Figures in brackets are for the observations from voluntary observing ships within a radius of about 500 nautical miles of the mean position of each buoy (Note - it is not known what proportion of the ships' winds were measured rather than estimated visually using the Beaufort Scale). The statistics for this report can be compared with those for ships and the relative quality of the wind data from each buoy can be assessed.

(Note : Buoys 44513, 62697 and 62712 reported occasional wind speeds, but no wind directions. Buoy 44613 reported occasional wind directions but no wind speeds. Buoy 44726 reported only 3 observations of wind speed and direction. Subsequently, no analysis was carried out on any of the above mentioned buoys.)

WMO No.	Period	Wind Speed (kn)		Wind Direction (deg)		No. of Obs
		Mean	St. Dev.	Mean	St. Dev.	
44609	08/12 - 31/12	8.0(3.2)	14.2(8.5)	-6.0(-8.3)	67.0(36.9)	463 (106)
44610	09/12 - 31/12	6.7(3.4)	11.1(9.2)	-7.0(-6.0)	32.3(35.8)	247 (159)
44621	01/10 - 31/12	-0.9(4.1)	4.3(9.4)	-9.6(5.3)	37.1(43.9)	959 (73)
44624	01/10 - 31/12	-3.2(1.8)	3.8(8.7)	6.0(-1.4)	21.9(32.5)	2242 (373)
44742	01/10 - 31/12	-1.8(3.1)	3.8(7.5)	-2.6(-0.7)	21.8(27.2)	1509 (379)
44762	01/10 - 31/12	-1.5(3.0)	3.3(7.2)	0.8(-1.4)	24.7(25.6)	1233 (418)
44773	01/10 - 31/12	-0.5(1.8)	4.4(6.5)	-2.6(8.2)	26.5(35.0)	4095 (67)
62552	01/10 - 31/12	-1.4(1.9)	3.5(7.5)	2.6(-1.6)	18.4(28.6)	2510 (594)
62553	01/10 - 31/12	-1.5(4.4)	4.1(9.8)	1.7(5.0)	22.3(34.4)	2050 (119)
62570	01/10 - 03/12	-1.0(2.4)	3.6(6.8)	1.6(-0.9)	19.4(26.9)	1056 (455)
62673	04/12 - 31/12	-30.4(3.2)	8.1(6.6)	20.7(-2.9)	8.7(36.1)	16 (66)
62674	04/12 - 31/12	-28.9(1.6)	7.0(6.1)	8.8(8.4)	30.1(37.0)	16 (81)
62803	01/10 - 31/12	-7.4(2.5)	7.7(10.1)	79.5(-5.0)	73.7(26.9)	18 (311)

Statistics of (ob-bg) differences for buoys reporting this quarter and all ships within 500 nautical miles

Buoys 44610 (6.7) and 44624 (-3.2) both showed a significant wind speed bias.

Buoy 44609 produced a large number of gross wind speed errors throughout December. Buoys 62673 (-30.4), 62674 (-28.9) and 62803 (-7.4) produced only a limited number of reports, all of which were erroneous.

Buoys 44609, 44610 and 44621 all showed a significant wind direction bias.

Buoys 62673 (20.7), 62674 (8.8) and 62803 (79.5) produced only a limited number of reports, all of which were erroneous.

6. EXPLANATORY NOTES:

1. Buoy owners are as follows,

CA	- Canada	P	- Portugal
F	- France	UK	- United Kingdom
D	- Germany	US	- United States
N	- Norway	IC	- Iceland
NL	- Netherlands	EG	- EGOS
IR	- Ireland	??	- unknown

2. Number of observations received is the number received at Bracknell in the Meteorological Data Bank (Met.DB). If identical reports are received which have originated at different Collecting Centres, the earliest one received at Bracknell is stored in the Met.DB.
3. An observation with valid Time and Date is one that contains no coding errors in the Date/Time group.
4. An acceptable position for an observation is within a distance d of the last acceptable position where $d=vt$ and,
- v = maximum drift speed = 1/4 knot
 t = time between observations.
5. The percentage of elements present is calculated from the total number of observations received.
6. The delay is (Time of Receipt at Bracknell) - (Time of Observation).
7. The mean number of observations per day is calculated from the total number of observations received divided by the number of days in the period. It therefore includes 'quasi-identical' observations, i.e. those made within a few minutes of one another. For this reason the mean number of hours per day with at least one observation and the % of hour periods without an observation has been included, where an 'hour period' is defined as the period from HH-30 to HH+29 minutes.

8. Mean (OB-BG) is the mean value of (Observation-Background) Pressure, where the Background is the 6-hour forecast from the Global Forecast Model. RMS (OB-BG) is the Root Mean Square value of (Observation-Background) Pressure differences.

Unflagged data are those data used in model analyses.

Flagged data (i.e. unused observations) are those observations of suspect quality and all observations reported by a buoy at a frequency greater than 5 times every 6 hours, with accepted observations being at least one hour apart. Thus, those buoys which report most frequently have a higher percentage of flagged data.

The Mean calculated over Unflagged Data gives an indication of the instrument bias, since any gross errors have been excluded from the calculation.

The Revised RMS is based on all data except for the few that contain gross errors (as indicated on the time-series graphs - see Annex B).

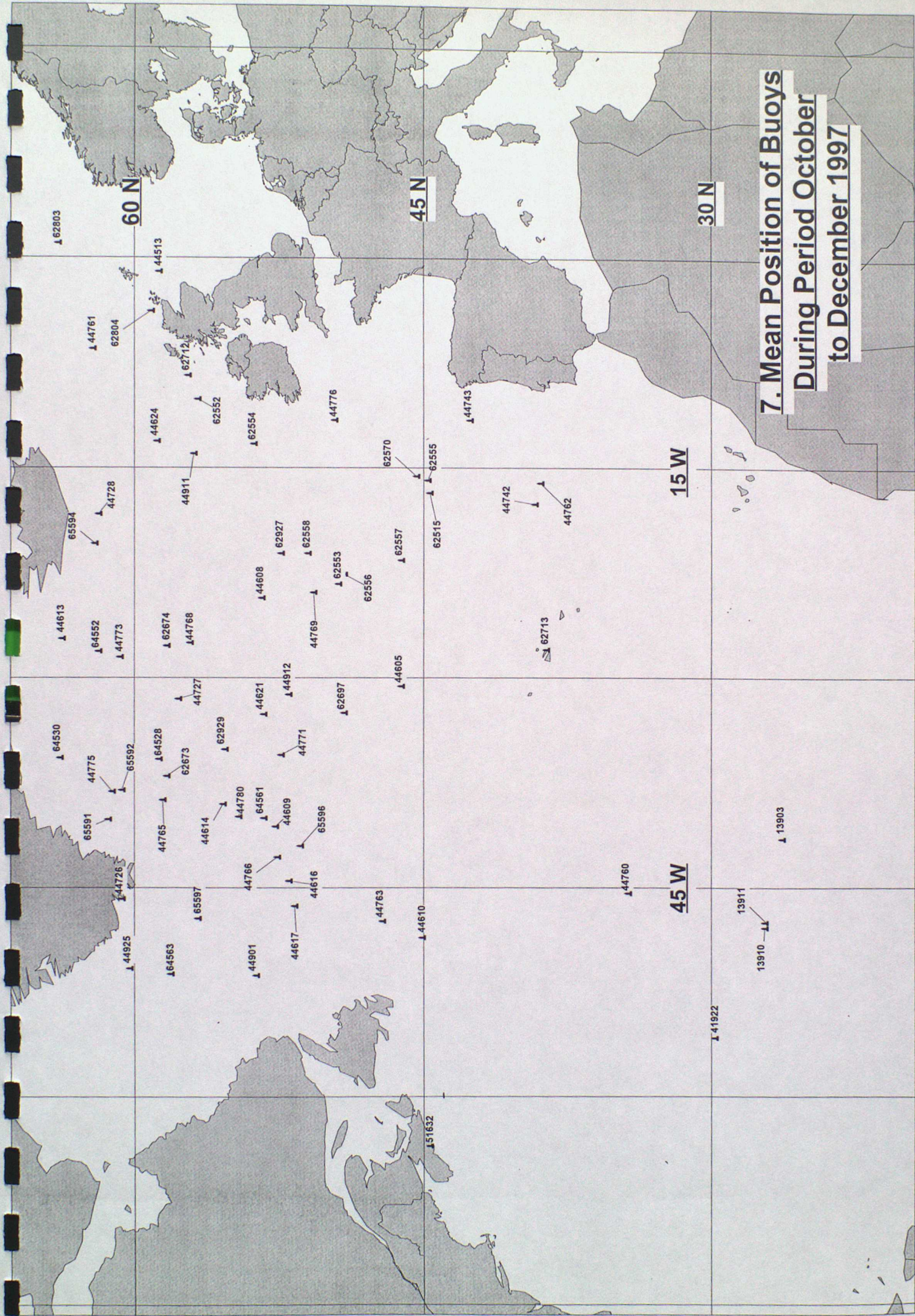
9. The performance categories are defined in the table below.

Performance	Availability (mean no. of obs/day)	Timeliness (median delay in mins)
Very Good	> 35	< 60
Good	25 - 35	60 - 119
Satisfactory	15 - 24	120 - 179
Poor	5 - 14	180 - 239
Very Poor	< 5	> 240

(N.B. WMO requirements state the need for only 4 observations per day from marine stations.)

The pressure quality is assessed from the Revised RMS and the Mean (for unflagged data).

Performance	Pressure Quality (in hPa)			
	North of 50 degN		South of 50 degN	
	RMS	MEAN	RMS	MEAN
Acceptable	< 3.0	< 0.5	< 2.0	< 0.5
Suspect	> 3.0	> 0.5	> 2.0	> 0.5



**7. Mean Position of Buoys
During Period October
to December 1997**

ANNEX A - TABLE OF STATISTICS

Wmo No./Country	13903/??	13910/??	13911/??
Argos Id.No.	????	????	????
Period within area	01/10 - 31/12	01/10 - 31/12	01/10 - 18/10
Mean Latitude	26.3	27.2	27.2
Mean Longitude	-41.5	-47.9	-47.5
No. of obs received	1008	1012	204
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	100.0	99.4	100.0
% of Present			
Pressure	100.0	99.4	100.0
P. Tendency	29.4	29.2	30.4
Air Temperature	0.0	0.0	0.0
Wind Speed/Dir.	0.0/0.0	0.0/0.0	0.0/0.0
Sea-surface Temp.	29.4	29.2	30.4
Median delay(min)	92	75	78
Number of days	92	92	18
Mean no. of obs/day	11.0	11.0	11.3
No. of hours with obs	920	961	190
Mean no. of hours/day with obs	10.0	10.4	10.6
% of hour periods without an ob	58.3	56.7	55.8
Mean (Ob-Bg)	1.0	-1.3	0.8
RMS (Ob-Bg)	1.3	1.7	1.3
unflagged data			
Mean (Ob-Bg)	0.9	-1.4	0.8
RMS (Ob-Bg)	1.3	1.7	1.3
all data			
Revised RMS (Ob-Bg)	1.3	1.7	1.3
% of data flagged	13	10	12
Operating at end of period	YES	YES	NO
Performance			
Availability	Poor	Poor	Poor
Pressure Quality	Suspect	Suspect	Suspect
Timeliness	Good	Good	Good
Comments			

ANNEX A - Cont.

Wmo No./Country	41922/??	44513/US	44605/F
Argos Id.No.	????	????	27933
Period within area	01/10 - 09/10	01/10 - 24/11	01/10 - 07/10
Mean Latitude	29.8	58.8	46.2
Mean Longitude	-55.8	-1.0	-30.6
No. of obs received	96	688	158
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable positions	100.0	99.7	100.0
% of Present			
Pressure	100.0	97.4	100.0
P. Tendency	31.3	0.0	50.6
Air Temperature	0.0	98.4	0.0
Wind Speed /Dir.	0.0/0.0	95.5/0.0	0.0/0.0
Sea-surface Temp.	31.3	98.0	74.7
Median delay(Min)	60	147	56
Number of days	9	55	7
Mean no. of obs/day	10.7	12.5	22.6
No. of hours with obs	91	602	114
Mean no. of hours/day with obs	10.1	10.9	16.3
% of hour periods without an ob	57.9	54.6	32.1
Mean (Ob-Bg)	1.2	-0.1	1.0
RMS (Ob-Bg)	1.8	0.9	1.4
unflagged data			
Mean (Ob-bg)	1.1	-0.1	0.9
RMS (Ob-Bg)	1.8	1.1	1.4
all data			
Revised RMS (Ob-Bg)	1.8	1.0	1.4
% of data flagged	13	17	43
Operating at end of period	NO	NO	NO
Performance			
Availability	Poor	Poor	Satisfactory
Pressure Quality	Suspect	Acceptable	Suspect
Timeliness	Good	Satisfactory	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	44608/F	44609/F	44610/F
Argos Id.No.	27938	????	????
Period within area	01/10 - 17/11	08/12 - 31/12	09/12 - 31/12
Mean Latitude	53.5	52.8	45.1
Mean Longitude	-24.3	-40.6	-48.6
No. of obs received	1681	734	518
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	99.4	100.0	99.0
% of Present			
Pressure	99.6	99.2	98.8
P. Tendency	50.6	0.0	0.0
Air Temperature	0.0	0.0	0.0
Wind Speed/Dir.	0.0/0.0	67.4/69.1	53.9/55.6
Sea-surface Temp.	82.6	68.4	56.4
Median delay(min)	54	55	199
Number of days	48	24	23
Mean no. of obs/day	35.0	30.6	22.5
No. of hours with obs	966	505	450
Mean no. of hours/day with obs	20.1	21.0	19.6
% of hour periods without an ob	16.7	12.5	18.3
Mean (Ob-Bg)	0.6	0.3	0.4
RMS (Ob-Bg)	1.4	1.9	1.6
unflagged data			
Mean (Ob-bg)	0.6	0.9	2.3
RMS (Ob-Bg)	1.4	17.3	28.6
all data			
Revised RMS (Ob-Bg)	1.4	2.0	1.8
% of data flagged	52	36	14
Operating at end of period	NO	YES	YES
Performance			
Availability	Good	Good	Satisfactory
Pressure Quality	Suspect	Acceptable	Acceptable
Timeliness	Very Good	Very Good	Poor
Comments			

ANNEX A - Cont.

Wmo No./Country	44613/UK	44614/UK	44616/UK
Argos Id.No.	3306	12665	12661
Period within area	01/10 - 15/10	23/12 - 31/12	17/10 - 31/12
Mean Latitude	63.8	55.5	52.1
Mean Longitude	-27.2	-39.0	-44.5
No. of obs received	522	150	2769
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable positions	100.0	100.0	99.4
% of Present			
Pressure	87.0	92.7	98.0
P. Tendency	77.4	88.0	93.6
Air Temperature	66.1	0.0	0.0
Wind Speed /Dir.	0.0/42.7	0.0/0.0	0.0/0.0
Sea-surface Temp.	60.5	96.7	94.0
Median delay(Min)	31	21	21
Number of days	15	9	76
Mean no. of obs/day	34.8	16.7	36.4
No. of hours with obs	255	121	1289
Mean no. of hours/day with obs	17.0	13.4	17.0
% of hour periods without an ob	29.2	44.2	29.2
Mean (Ob-Bg)	0.0	0.6	0.3
RMS (Ob-Bg)	1.1	2.2	1.7
unflagged data			
Mean (Ob-bg)	-1.5	0.8	0.1
RMS (Ob-Bg)	15.0	2.5	5.6
all data			
Revised RMS (Ob-Bg)	1.1	2.5	1.9
% of data flagged	64	31	65
Operating at end of period	NO	YES	YES
Performance			
Availability	Good	Satisfactory	Very Good
Pressure Quality	Acceptable	Suspect	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	44617/UK	44621/UK	44624/UK
Argos Id.No.	26744	26752	2958
Period within area	19/11 - 31/12	01/10 - 31/12	01/10 - 31/12
Mean Latitude	51.8	53.4	58.9
Mean Longitude	-46.3	-32.6	-13.1
No. of obs received	1542	2441	4087
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	99.7	99.8	99.7
% of Present			
Pressure	97.9	97.2	98.3
P. Tendency	93.7	93.9	85.6
Air Temperature	98.1	97.3	0.0
Wind Speed/Dir.	0.0/0.0	41.9/94.7	62.7/62.6
Sea-surface Temp.	91.9	0.0	95.7
Median delay(min)	21	26	21
Number of days	43	92	92
Mean no. of obs/day	35.9	26.5	44.4
No. of hours with obs	732	1420	1677
Mean no. of hours/day with obs	17.0	15.4	18.2
% of hour periods without an ob	29.2	35.8	24.2
Mean (Ob-Bg)	0.0	-0.2	0.3
RMS (Ob-Bg)	1.8	1.6	1.3
unflagged data			
Mean (Ob-bg)	-0.4	-0.5	0.2
RMS (Ob-Bg)	5.5	5.9	3.9
all data			
Revised RMS (Ob-Bg)	1.9	1.6	1.2
% of data flagged	63	52	67
Operating at end of period	YES	YES	YES
Performance.			
Availability	Very Good	Good	Very Good
Pressure Quality	Acceptable	Acceptable	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	44726/UK	44727/UK	44728/UK
Argos Id.No.	2955	3098	1254
Period within area	01/10 - 01/10	01/10 - 31/12	01/10 - 31/12
Mean Latitude	60.7	57.8	61.9
Mean Longitude	-45.8	-31.5	-18.3
No. of obs received	7	6404	4370
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable positions	0.0	99.5	99.7
% of Present			
Pressure	85.7	99.0	97.7
P. Tendency	71.4	95.0	85.4
Air Temperature	85.7	98.8	97.9
Wind Speed /Dir.	42.9/42.9	0.0/0.0	0.0/0.0
Sea-surface Temp.	100.0	96.8	95.4
Median delay(Min)	21	22	21
Number of days	1	92	92
Mean no. of obs/day	7.0	69.6	47.5
No. of hours with obs	6	1865	1760
Mean no. of hours/day with obs	6.0	20.3	19.1
% of hour periods without an ob	75.0	15.4	20.4
Mean (Ob-Bg)	-0.2	0.2	0.4
RMS (Ob-Bg)	0.2	1.5	1.4
unflagged data			
Mean (Ob-bg)	1.5	0.0	0.8
RMS (Ob-Bg)	3.5	4.1	7.6
all data			
Revised RMS (Ob-Bg)	3.5	1.4	1.3
% of data flagged	83	76	68
Operating at end of period	NO	YES	YES
Performance			
Availability	Poor	Very Good	Very Good
Pressure Quality	Suspect	Acceptable	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	44742/UK	44743/UK	44760/UK
Argos Id.No.	26753	1248	2947
Period within area	01/10 - 31/12	01/10 - 31/12	01/10 - 31/12
Mean Latitude	39.2	42.6	34.3
Mean Longitude	-17.6	-11.6	-45.4
No. of obs received	2147	1951	1330
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	99.1	99.7	99.8
% of Present			
Pressure	97.9	98.6	98.6
P. Tendency	79.4	38.4	97.3
Air Temperature	98.3	0.0	98.1
Wind Speed/Dir.	96.9/76.3	0.0/0.0	0.0/0.0
Sea-surface Temp.	92.1	94.1	98.7
Median delay(min)	22	21	17
Number of days	92	92	92
Mean no. of obs/day	23.3	21.1	14.5
No. of hours with obs	1209	1142	1169
Mean no. of hours/day with obs	13.1	12.4	12.7
% of hour periods without an ob	45.4	48.3	47.1
Mean (Ob-Bg)	0.1	0.2	0.2
RMS (Ob-Bg)	1.1	1.2	1.2
unflagged data			
Mean (Ob-bg)	0.0	-0.1	0.1
RMS (Ob-Bg)	3.0	7.5	1.4
all data			
Revised RMS (Ob-Bg)	1.2	1.1	1.4
% of data flagged	52	52	13
Operating at end of period	YES	YES	YES
Performance			
Availability	Satisfactory	Satisfactory	Poor
Pressure Quality	Acceptable	Acceptable	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	44761/UK	44762/UK	44763/UK
Argos Id. No.	12660	26754	12663
Period within area	31/10 - 31/12	01/10 - 31/12	17/10 - 31/12
Mean Latitude	62.2	38.9	47.2
Mean Longitude	-6.5	-16.1	-47.4
No. of obs received	605	2225	1722
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable positions	8.9	99.5	99.3
% of Present			
Pressure	89.6	98.3	96.1
P. Tendency	88.1	79.2	90.1
Air Temperature	0.0	98.5	0.0
Wind Speed /Dir.	0.0/0.0	80.3/60.9	0.0/0.0
Sea-surface Temp.	97.7	0.0	94.3
Median delay(Min)	20	23	21
Number of days	62	92	76
Mean no. of obs/day	9.8	24.2	22.7
No. of hours with obs	343	1237	977
Mean no. of hours/day with obs	5.5	13.4	12.9
% of hour periods without an ob	77.1	44.2	46.3
Mean (Ob-Bg)	0.4	0.0	0.2
RMS (Ob-Bg)	2.1	1.1	1.9
unflagged data			
Mean (Ob-bg)	0.6	-0.1	0.2
RMS (Ob-Bg)	2.4	2.9	4.5
all data			
Revised RMS (Ob-Bg)	2.4	1.1	2.0
% of data flagged	59	53	55
Operating at end of period	YES	YES	YES
Performance			
Availability	Poor	Satisfactory	Satisfactory
Pressure Quality	Acceptable	Acceptable	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	44765/UK	44766/UK	44768/UK
Argos Id.No.	12662	12667	26746
Period within area	02/10 - 31/12	23/12 - 31/12	01/10 - 31/12
Mean Latitude	58.6	52.7	57.2
Mean Longitude	-38.7	-42.8	-27.5
No. of obs received	3008	129	4482
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	99.8	100.0	99.6
% of Present			
Pressure	96.5	88.4	97.9
P. Tendency	93.1	80.6	92.7
Air Temperature	0.0	0.0	0.0
Wind Speed/Dir.	0.0/0.0	0.0/0.0	0.0/0.0
Sea-surface Temp.	89.8	94.6	83.0
Median delay(min)	28	18	22
Number of days	91	9	92
Mean no. of obs/day	33.1	14.3	48.7
No. of hours with obs	1565	108	1728
Mean no. of hours/day with obs	17.2	12.0	18.8
% of hour periods without an ob	28.3	50.0	21.7
Mean (Ob-Bg)	0.3	0.3	0.3
RMS (Ob-Bg)	1.6	2.1	1.5
unflagged data			
Mean (Ob-bg)	0.5	0.4	0.2
RMS (Ob-Bg)	2.5	2.3	4.1
all data			
Revised RMS (Ob-Bg)	1.8	2.3	1.6
% of data flagged	57	24	69
Operating at end of period	YES	YES	YES
Performance			
Availability	Good	Poor	Very Good
Pressure Quality	Acceptable	Acceptable	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	44769/UK	44771/UK	44773/UK
Argos Id.No.	26749	12659	26751
Period within area	01/10 - 31/12	01/10 - 31/12	01/10 - 31/12
Mean Latitude	50.8	52.5	60.8
Mean Longitude	-23.9	-35.5	-28.5
No. of obs received	3503	3160	4660
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable positions	99.6	99.7	99.6
% of Present			
Pressure	98.2	97.2	97.5
P. Tendency	94.7	93.4	93.8
Air Temperature	98.3	0.0	97.7
Wind Speed /Dir.	0.0/0.0	0.0/0.0	95.8/95.6
Sea-surface Temp.	92.9	93.5	92.9
Median delay(Min)	22	22	22
Number of days	92	92	92
Mean no. of obs/day	38.1	34.3	50.7
No. of hours with obs	1559	1510	1800
Mean no. of hours/day with obs	16.9	16.4	19.6
% of hour periods without an ob	29.6	31.7	18.3
Mean (Ob-Bg)	0.0	0.3	0.1
RMS (Ob-Bg)	1.4	1.7	1.5
unflagged data			
Mean (Ob-bg)	-0.2	0.2	0.0
RMS (Ob-Bg)	5.0	5.8	4.4
all data			
Revised RMS (Ob-Bg)	1.4	1.9	1.4
% of data flagged	64	63	69
Operating at end of period	YES	YES	YES
Performance			
Availability	Very Good	Good	Very Good
Pressure Quality	Acceptable	Acceptable	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	44775/UK	44776/UK	44780/UK
Argos Id.No.	26741	????	26742
Period within area	01/10 - 31/12	08/12 - 31/12	19/11 - 31/12
Mean Latitude	61.2	49.7	54.7
Mean Longitude	-38.1	-11.6	-39.9
No. of obs received	4782	13	1843
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	99.7	92.3	99.9
% of Present			
Pressure	97.2	100.0	97.8
P. Tendency	92.0	92.3	93.7
Air Temperature	97.1	0.0	97.7
Wind Speed/Dir.	0.0/0.0	0.0/0.0	0.0/0.0
Sea-surface Temp.	83.9	100.0	90.2
Median delay(min)	22	26	21
Number of days	92	24	43
Mean no. of obs/day	52.0	0.5	42.9
No. of hours with obs	1818	12	776
Mean no. of hours/day with obs	19.8	0.5	18.0
% of hour periods without an ob	17.5	97.9	25.0
Mean (Ob-Bg)	0.2	---	0.1
RMS (Ob-Bg)	1.5	---	1.8
unflagged data			
Mean (Ob-bg)	0.1	-83.4	-0.3
RMS (Ob-Bg)	4.2	88.4	5.6
all data			
Revised RMS (Ob-Bg)	1.5	4.9	1.8
% of data flagged	70	100	68
Operating at end of period	YES	YES	YES
Performance.			
Availability	Very Good	Very Poor	Very Good
Pressure Quality	Acceptable	Suspect	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	44901/??	44911/US	44912/US
Argos Id.No.	????	466	????
Period within area	01/10 - 31/12	01/10 - 31/12	01/10 - 31/12
Mean Latitude	53.8	57.0	52.1
Mean Longitude	-51.3	-14.0	-31.2
No. of obs received	474	577	407
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	99.6	100.0	99.0
% of Present			
Pressure	65.2	85.4	67.8
P. Tendency	17.1	0.0	12.3
Air Temperature	0.0	0.0	0.0
Wind Speed/Dir.	0.0/0.0	0.0/0.0	0.0/0.0
Sea-surface Temp.	97.3	0.0	98.3
Median delay(min)	77	546	94
Number of days	92	92	92
Mean no. of obs/day	5.2	6.3	4.4
No. of hours with obs	400	521	364
Mean no. of hours/day with obs	4.3	5.7	4.0
% of hour periods without an ob	82.1	76.3	83.3
Mean (Ob-Bg)	1.3	0.6	1.1
RMS (Ob-Bg)	1.8	1.4	1.8
unflagged data			
Mean (Ob-bg)	1.8	0.6	1.9
RMS (Ob-Bg)	3.9	1.4	4.1
all data			
Revised RMS (Ob-Bg)	2.3	1.4	3.7
% of data flagged	35	11	16
Operating at end of period	YES	YES	YES
Performance			
Availability	Poor	Poor	Very Poor
Pressure Quality	Suspect	Suspect	Suspect
Timeliness	Good	Very Poor	Good
Comments			

ANNEX A - Cont.

Wmo No./Country	44925/US	51632/??	62515/F
Argos Id.No.	????	????	14426
Period within area	01/10 - 30/12	24/10 - 31/10	01/10 - 31/12
Mean Latitude	60.3	44.7	44.7
Mean Longitude	-50.8	-63.6	-16.8
No. of obs received	442	7	1825
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	95.0	0.0	99.8
% of Present			
Pressure	82.8	85.7	50.8
P. Tendency	9.5	0.0	33.2
Air Temperature	0.0	100.0	0.0
Wind Speed/Dir.	0.0/0.0	0.0/0.0	0.0/0.0
Sea-surface Temp.	74.7	85.7	75.6
Median delay(min)	104	127	54
Number of days	91	8	92
Mean no. of obs/day	4.9	0.9	19.8
No. of hours with obs	384	7	1531
Mean no. of hours/day with obs	4.2	0.9	16.6
% of hour periods without an ob	82.5	96.3	30.8
Mean (Ob-Bg)	1.1	-3.1	0.1
RMS (Ob-Bg)	1.6	3.1	1.7
unflagged data			
Mean (Ob-bg)	1.4	-3.7	0.9
RMS (Ob-Bg)	2.8	3.8	3.7
all data			
Revised RMS (Ob-Bg)	2.8	3.8	3.7
% of data flagged	21	83	36
Operating at end of period	NO	NO	YES
Performance			
Availability	Very Poor	Very Poor	Satisfactory
Pressure Quality	Suspect	Suspect	Suspect
Timeliness	Good	Satisfactory	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	62552/F	62553/F	62554/F
Argos Id.No.	3008	3009	14430
Period within area	01/10 - 31/12	01/10 - 31/12	01/10 - 31/12
Mean Latitude	56.8	49.5	53.9
Mean Longitude	-10.1	-23.3	-13.3
No. of obs received	2999	2382	2626
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	99.8	99.8	99.7
% of Present			
Pressure	96.2	95.6	95.8
P. Tendency	89.9	89.2	89.6
Air Temperature	73.7	69.5	0.0
Wind Speed/Dir.	95.4/95.0	95.3/95.1	0.0/0.0
Sea-surface Temp.	97.3	96.9	96.7
Median delay(min)	26	18	23
Number of days	92	92	92
Mean no. of obs/day	32.6	25.9	28.5
No. of hours with obs	1828	1658	1713
Mean no. of hours/day with obs	19.9	18.0	18.6
% of hour periods without an ob	17.1	25.0	22.5
Mean (Ob-Bg)	-0.2	0.3	0.3
RMS (Ob-Bg)	1.5	1.6	1.5
unflagged data			
Mean (Ob-bg)	-0.2	0.1	0.3
RMS (Ob-Bg)	3.8	3.9	1.5
all data			
Revised RMS (Ob-Bg)	1.6	1.7	1.5
% of data flagged	49	43	45
Operating at end of period	YES	YES	YES
Performance			
Availability	Good	Good	Good
Pressure Quality	Acceptable	Acceptable	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	62555/F	62556/F	62557/F
Argos Id.No.	27932	27935	27930
Period within area	01/10 - 31/12	01/10 - 31/12	01/10 - 31/12
Mean Latitude	44.8	49.2	46.2
Mean Longitude	-15.9	-22.6	-21.6
No. of obs received	3339	3866	3979
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	99.5	99.7	99.4
% of Present			
Pressure	99.7	99.5	85.9
P. Tendency	39.6	39.0	34.8
Air Temperature	0.0	0.0	0.0
Wind Speed/Dir.	0.0/0.0	0.0/0.0	0.0/0.0
Sea-surface Temp.	78.3	81.4	68.4
Median delay(min)	43	45	49
Number of days	92	92	92
Mean no. of obs/day	36.3	42.0	43.3
No. of hours with obs	1877	2007	1990
Mean no. of hours/day with obs	20.4	21.8	21.6
% of hour periods without an ob	15.0	9.2	10.0
Mean (Ob-Bg)	0.0	0.1	0.4
RMS (Ob-Bg)	2.3	4.1	1.6
unflagged data			
Mean (Ob-bg)	0.3	0.1	0.4
RMS (Ob-Bg)	13.3	5.5	6.0
all data			
Revised RMS (Ob-Bg)	1.4	1.6	1.6
% of data flagged	57	62	61
Operating at end of period	YES	YES	YES
Performance.			
Availability	Very Good	Very Good	Very Good
Pressure Quality	Acceptable	Acceptable	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	62558/F	62570/F	62673/??
Argos Id.No.	27931	????	????
Period within area	01/10 - 31/12	01/10 - 03/12	04/12 - 31/12
Mean Latitude	51.1	45.4	58.4
Mean Longitude	-21.1	-15.6	-37.0
No. of obs received	4114	1512	273
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	99.8	99.7	100.0
% of Present			
Pressure	85.7	30.7	96.3
P. Tendency	38.0	0.0	0.0
Air Temperature	0.0	0.0	98.2
Wind Speed/Dir.	0.0/0.0	86.8/82.6	12.5/12.5
Sea-surface Temp.	0.0	89.0	97.8
Median delay(min)	47	213	145
Number of days	92	64	28
Mean no. of obs/day	44.7	23.6	9.8
No. of hours with obs	1953	1404	181
Mean no. of hours/day with obs	21.2	21.9	6.5
% of hour periods without an ob	11.7	8.8	72.9
Mean (Ob-Bg)	0.5	0.1	-0.4
RMS (Ob-Bg)	1.5	1.3	1.4
unflagged data			
Mean (Ob-bg)	0.6	0.1	-26.8
RMS (Ob-Bg)	4.3	1.3	46.2
all data			
Revised RMS (Ob-Bg)	1.5	1.3	2.8
% of data flagged	55	2	68
Operating at end of period	YES	NO	YES
Performance			
Availability	Very Good	Satisfactory	Poor
Pressure Quality	Acceptable	Acceptable	Acceptable
Timeliness	Very Good	Poor	Satisfactory
Comments			

ANNEX A - Cont.

Wmo No./Country	62674/??	62697/UK	62712/UK
Argos Id.No.	????	2959	3188
Period within area	04/12 - 31/12	01/10 - 31/12	01/10 - 15/10
Mean Latitude	58.4	49.2	57.3
Mean Longitude	-27.7	-32.5	-8.4
No. of obs received	268	2741	452
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	100.0	25.6	99.8
% of Present			
Pressure	97.0	97.9	86.3
P. Tendency	0.0	85.7	0.0
Air Temperature	98.1	98.4	0.0
Wind Speed/Dir.	11.9/11.9	73.5/0.0	10.6/0.0
Sea-surface Temp.	93.3	95.5	58.0
Median delay(min)	160	21	51
Number of days	28	92	15
Mean no. of obs/day	9.6	29.8	30.1
No. of hours with obs	181	1409	245
Mean no. of hours/day with obs	6.5	15.3	16.3
% of hour periods without an ob	72.9	36.3	32.1
Mean (Ob-Bg)	-0.4	0.0	0.6
RMS (Ob-Bg)	1.7	1.6	1.3
unflagged data			
Mean (Ob-bg)	-33.7	-0.1	0.3
RMS (Ob-Bg)	57.2	6.3	1.8
all data			
Revised RMS (Ob-Bg)	2.2	1.7	1.1
% of data flagged	67	59	58
Operating at end of period	YES	YES	NO
Performance.			
Availability	Poor	Good	Good
Pressure Quality	Acceptable	Acceptable	Suspect
Timeliness	Satisfactory	Very Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	62713/UK	62803/UK	62804/UK
Argos Id.No.	3185	3209	26743
Period within area	01/10 - 05/11	01/10 - 31/12	01/10 - 13/11
Mean Latitude	38.6	64.0	59.2
Mean Longitude	-28.0	1.0	-3.8
No. of obs received	524	6447	1593
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	99.8	99.5	99.6
% of Present			
Pressure	97.7	99.2	98.0
P. Tendency	92.2	94.3	64.2
Air Temperature	0.0	99.1	89.9
Wind Speed/Dir.	0.0/0.0	0.5/41.5	0.0/0.0
Sea-surface Temp.	0.0	96.1	0.0
Median delay(min)	24	23	23
Number of days	36	92	44
Mean no. of obs/day	14.6	70.1	36.2
No. of hours with obs	351	1882	740
Mean no. of hours/day with obs	9.8	20.5	16.8
% of hour periods without an ob	59.2	14.6	30.0
Mean (Ob-Bg)	-1.4	0.2	0.0
RMS (Ob-Bg)	1.9	1.1	1.0
unflagged data			
Mean (Ob-bg)	-1.4	0.1	0.0
RMS (Ob-Bg)	2.2	3.3	1.0
all data			
Revised RMS (Ob-Bg)	2.0	1.0	0.9
% of data flagged	44	75	62
Operating at end of period	NO	YES	NO
Performance			
Availability	Poor	Very Good	Very Good
Pressure Quality	Suspect	Acceptable	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	62927/??	62929/??	64528/NL
Argos Id.No.	????	????	4274
Period within area	01/10 - 31/12	01/10 - 31/12	01/10 - 31/12
Mean Latitude	52.5	55.4	58.8
Mean Longitude	-21.1	-35.1	-35.8
No. of obs received	436	565	5974
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	100.0	99.8	99.6
% of Present			
Pressure	50.7	17.0	98.3
P. Tendency	18.6	15.8	72.8
Air Temperature	0.0	0.0	98.3
Wind Speed/Dir.	0.0/0.0	0.0/0.0	0.0/0.0
Sea-surface Temp.	98.2	83.9	64.0
Median delay(min)	111	97	21
Number of days	92	92	92
Mean no. of obs/day	4.7	6.1	64.9
No. of hours with obs	390	469	1761
Mean no. of hours/day with obs	4.2	5.1	19.1
% of hour periods without an ob	82.5	78.8	20.4
Mean (Ob-Bg)	0.8	1.4	0.0
RMS (Ob-Bg)	1.5	2.2	1.5
unflagged data			
Mean (Ob-bg)	0.8	2.0	-0.1
RMS (Ob-Bg)	2.4	3.2	2.0
all data			
Revised RMS (Ob-Bg)	2.4	3.2	1.4
% of data flagged	15	31	76
Operating at end of period	YES	YES	YES
Performance.			
Availability	Very Poor	Poor	Very Good
Pressure Quality	Suspect	Suspect	Acceptable
Timeliness	Good	Good	Very Good
Comments			

ANNEX A - Cont.

Wmo No./Country	64530/??	64552/??	64561/UK
Argos Id.No.	????	????	1247
Period within area	08/12 - 31/12	12/12 - 31/12	01/10 - 31/12
Mean Latitude	63.9	61.9	53.4
Mean Longitude	-35.7	-28.1	-40.0
No. of obs received	1038	701	3271
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	100.0	100.0	99.6
% of Present			
Pressure	96.2	97.1	97.2
P. Tendency	92.2	93.9	92.9
Air Temperature	0.0	0.0	0.0
Wind Speed/Dir.	0.0/0.0	0.0/0.0	0.0/0.0
Sea-surface Temp.	86.2	98.3	94.3
Median delay(min)	21	20	21
Number of days	24	20	92
Mean no. of obs/day	43.3	35.1	35.6
No. of hours with obs	423	332	1609
Mean no. of hours/day with obs	17.6	16.6	17.5
% of hour periods without an ob	26.7	30.8	27.1
Mean (Ob-Bg)	0.5	0.6	0.2
RMS (Ob-Bg)	2.2	2.1	1.7
unflagged data			
Mean (Ob-bg)	0.7	0.9	-0.1
RMS (Ob-Bg)	2.9	2.8	5.5
all data			
Revised RMS (Ob-Bg)	2.5	2.5	1.7
% of data flagged	69	65	63
Operating at end of period	YES	YES	YES
Performance			
Availability	Very Good	Very Good	Very Good
Pressure Quality	Acceptable	Suspect	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

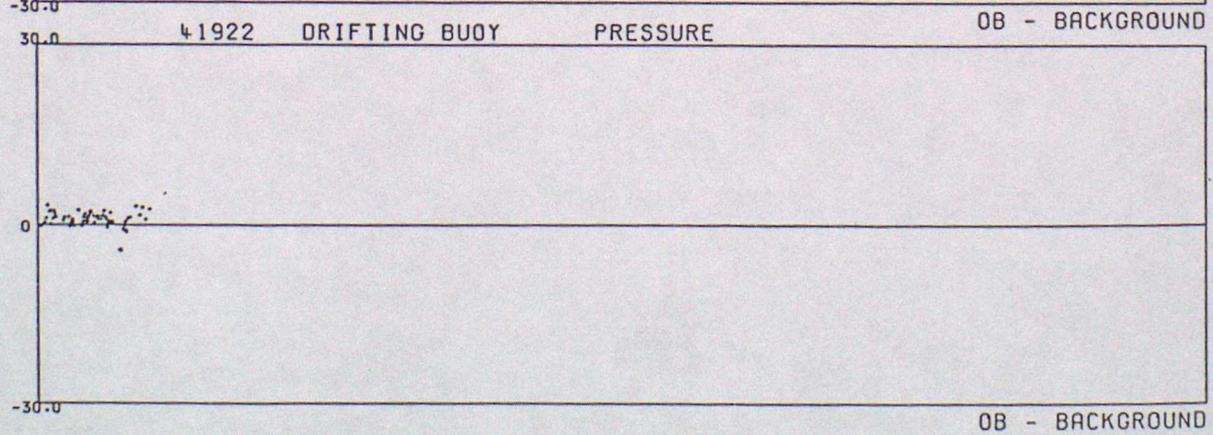
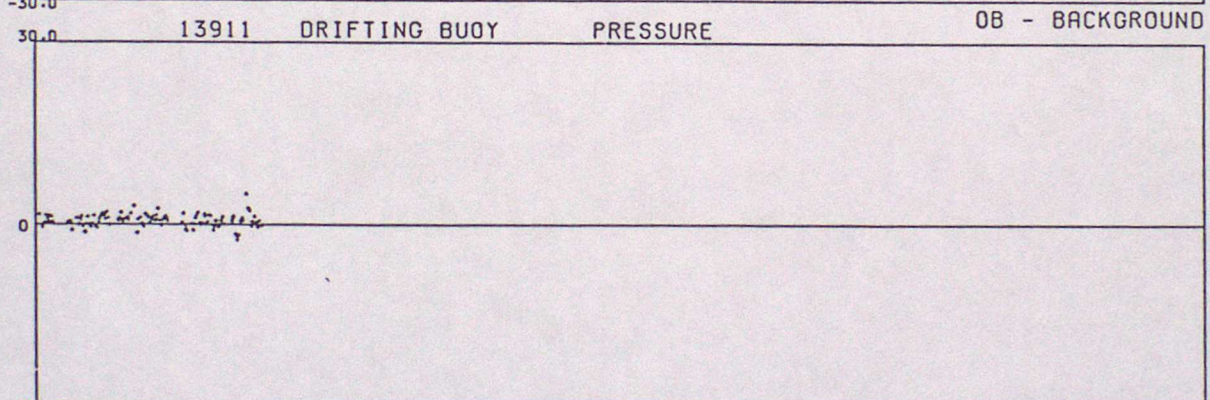
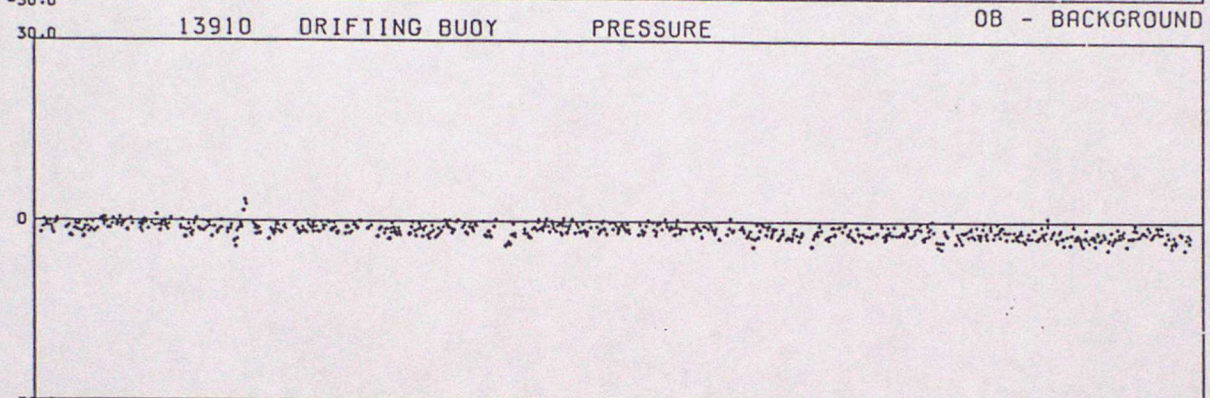
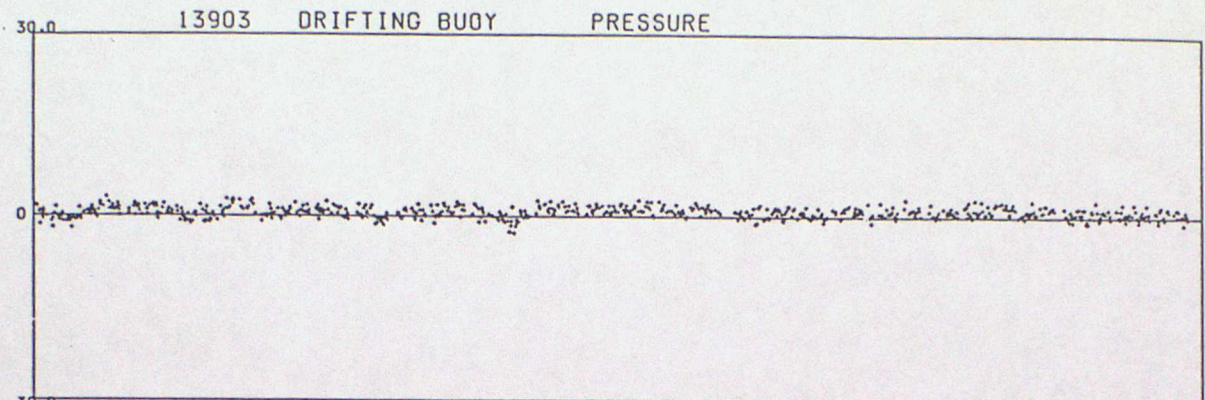
Wmo No./Country	64563/N	65591/UK	65592/D
Argos Id.No.	3679	26748	4270
Period within area	01/10 - 31/12	10/12 - 31/12	28/11 - 31/12
Mean Latitude	58.2	61.4	60.7
Mean Longitude	-51.2	-40.1	-38.0
No. of obs received	5708	649	1513
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	99.4	100.0	81.0
% of Present			
Pressure	97.5	94.6	95.4
P. Tendency	69.8	90.9	73.2
Air Temperature	97.4	94.1	95.5
Wind Speed/Dir.	0.0/0.0	0.0/0.0	0.0/0.0
Sea-surface Temp.	62.6	80.7	73.2
Median delay(min)	21	28	21
Number of days	92	22	34
Mean no. of obs/day	62.0	29.5	44.5
No. of hours with obs	1786	361	570
Mean no. of hours/day with obs	19.4	16.4	16.8
% of hour periods without an ob	19.2	31.7	30.0
Mean (Ob-Bg)	-0.1	0.0	-0.2
RMS (Ob-Bg)	1.3	1.8	1.6
unflagged data			
Mean (Ob-bg)	-0.1	0.2	-1.8
RMS (Ob-Bg)	2.0	4.6	7.1
all data			
Revised RMS (Ob-Bg)	1.5	1.7	5.5
% of data flagged	74	53	74
Operating at end of period	YES	YES	YES
Performance			
Availability	Very Good	Good	Very Good
Pressure Quality	Acceptable	Acceptable	Suspect
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX A - Cont.

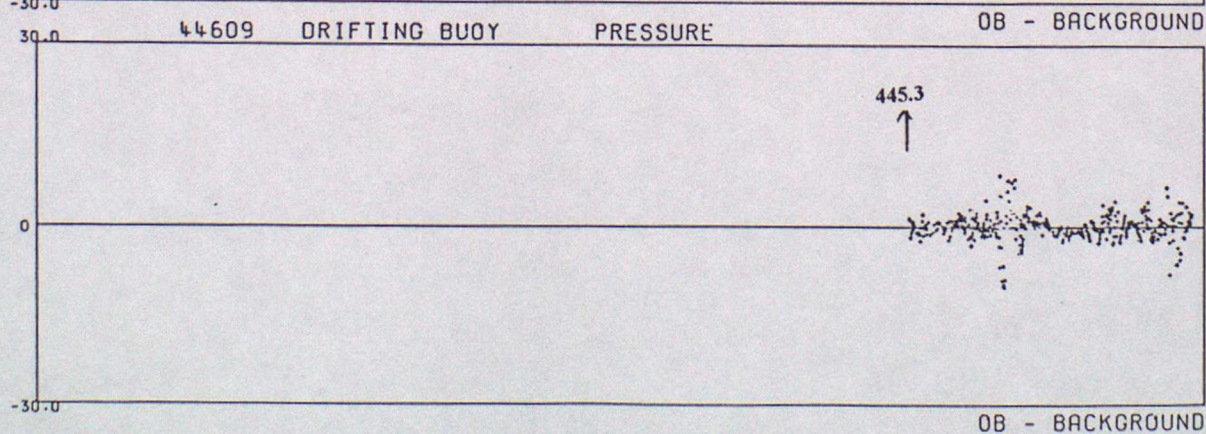
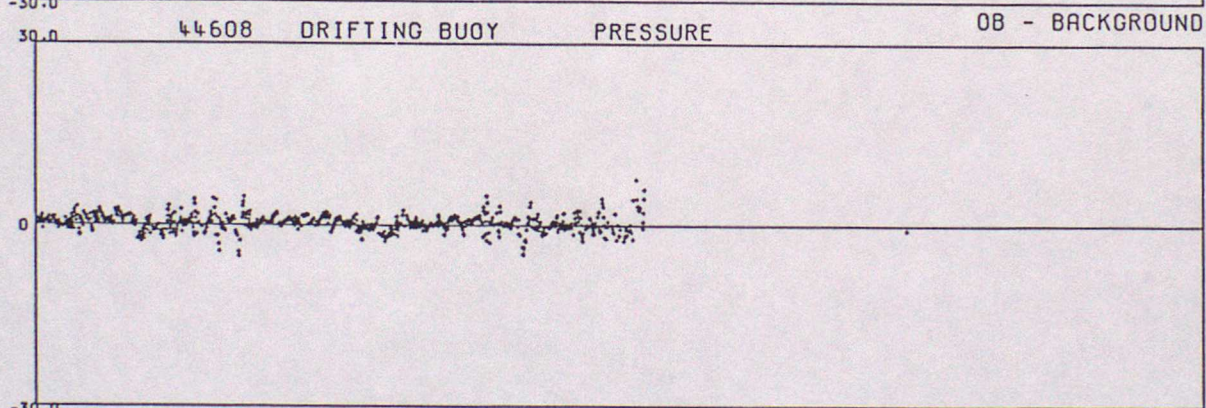
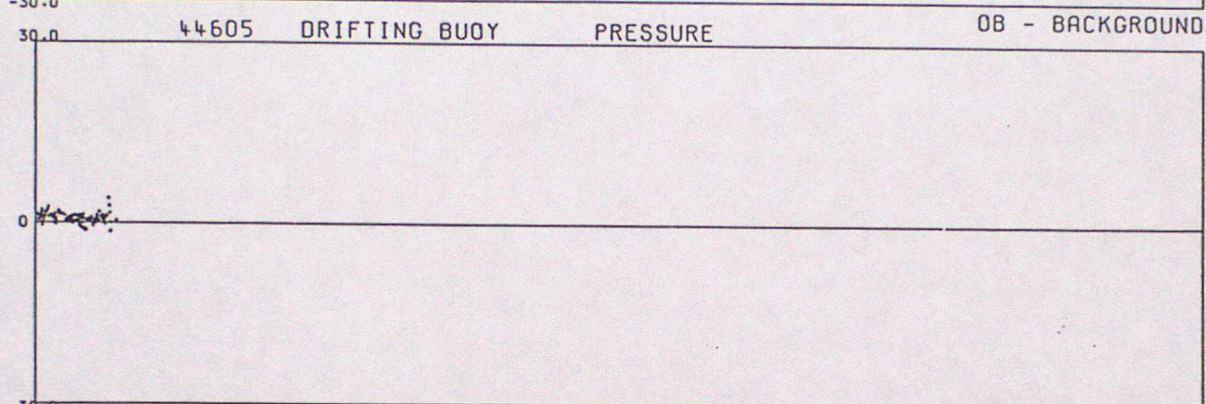
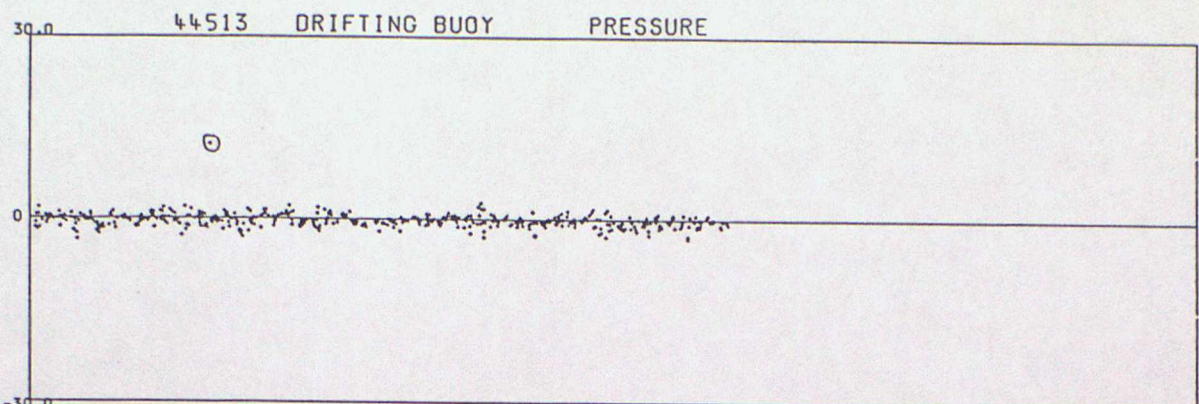
Wmo No./Country	65594/UK	65596/NL	65597/NL
Argos Id.No.	1252	3036	4273
Period within area	01/10 - 31/12	01/10 - 31/12	01/10 - 31/12
Mean Latitude	62.1	51.5	56.8
Mean Longitude	-20.4	-42.0	-47.2
No. of obs received	6798	1774	5298
% of obs with valid Time and Date	100.0	100.0	100.0
% of obs with acceptable position	99.7	94.0	99.5
% of Present			
Pressure	99.2	86.6	97.4
P. Tendency	95.5	55.7	70.9
Air Temperature	99.1	84.2	97.2
Wind Speed/Dir.	0.0/0.0	0.0/0.0	0.0/0.0
Sea-surface Temp.	96.7	51.2	61.7
Median delay(min)	22	24	21
Number of days	92	92	92
Mean no. of obs/day	73.9	19.3	57.6
No. of hours with obs	1872	1002	1712
Mean no. of hours/day with obs	20.3	10.9	18.6
% of hour periods without an ob	15.4	54.6	22.5
Mean (Ob-Bg)	0.2	-0.4	0.0
RMS (Ob-Bg)	1.4	1.8	1.3
unflagged data			
Mean (Ob-bg)	0.1	-0.3	-0.1
RMS (Ob-Bg)	3.1	6.6	2.7
all data			
Revised RMS (Ob-Bg)	1.6	2.1	1.3
% of data flagged	77	55	73
Operating at end of period	YES	YES	YES
Performance.			
Availability	Very Good	Satisfactory	Very Good
Pressure Quality	Acceptable	Acceptable	Acceptable
Timeliness	Very Good	Very Good	Very Good
Comments			

ANNEX B - TIME SERIES PLOTS OF PRESSURE

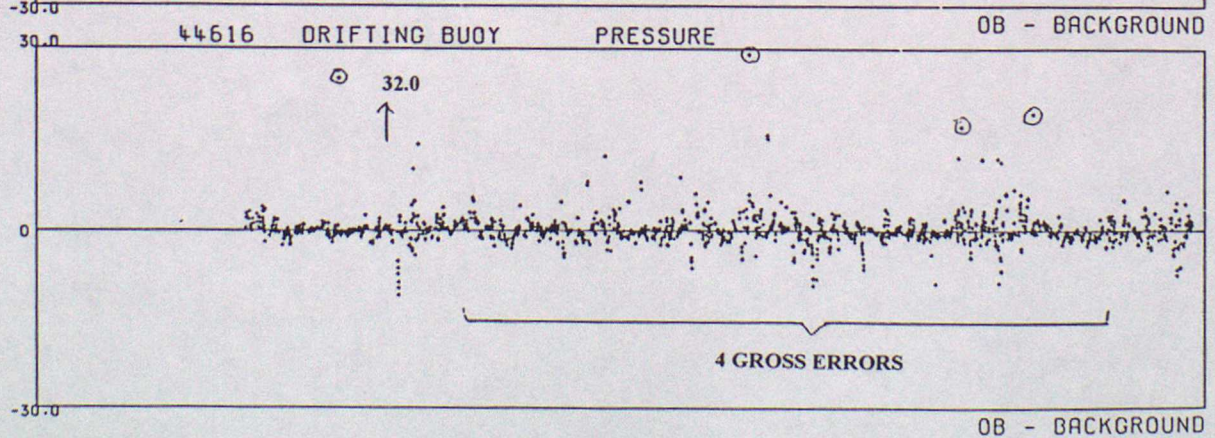
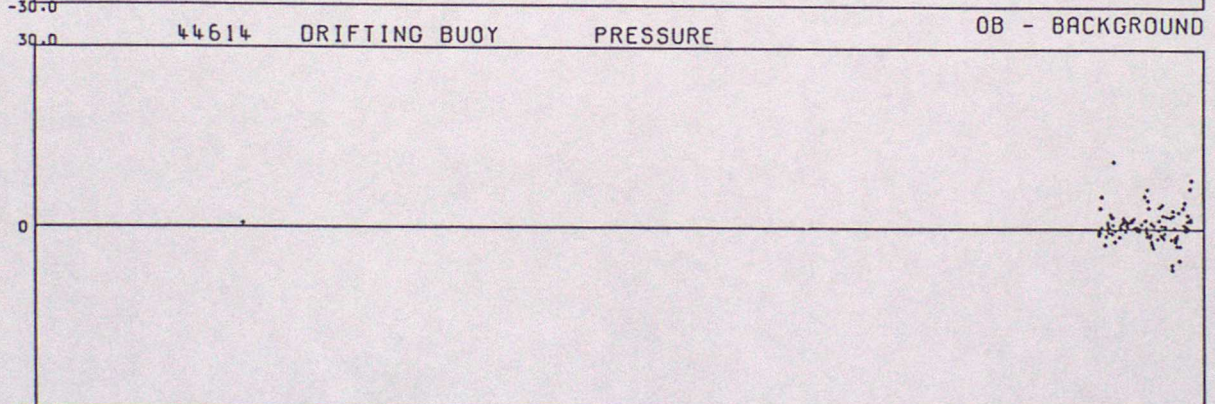
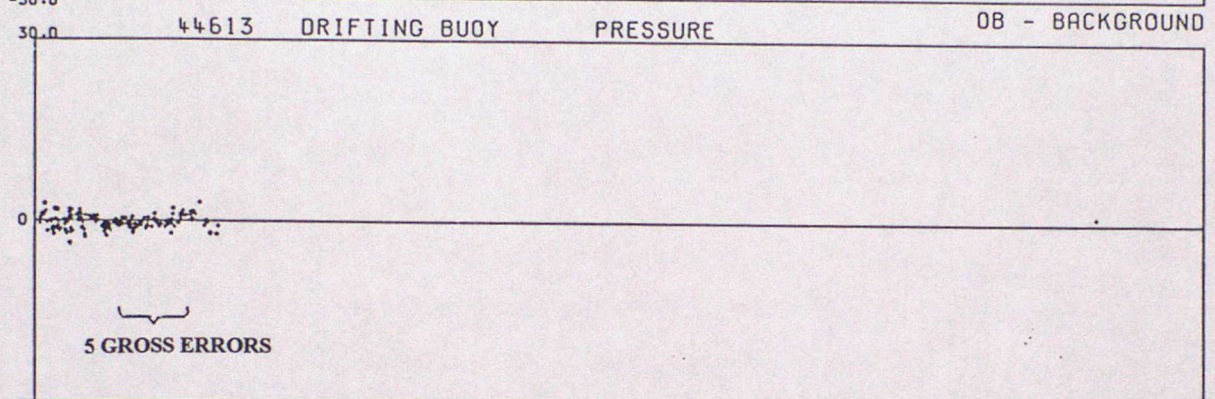
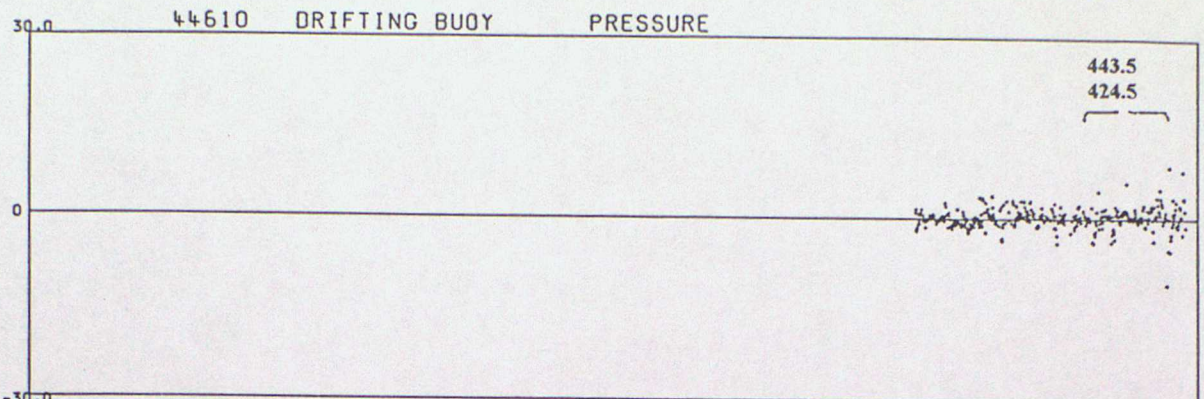
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



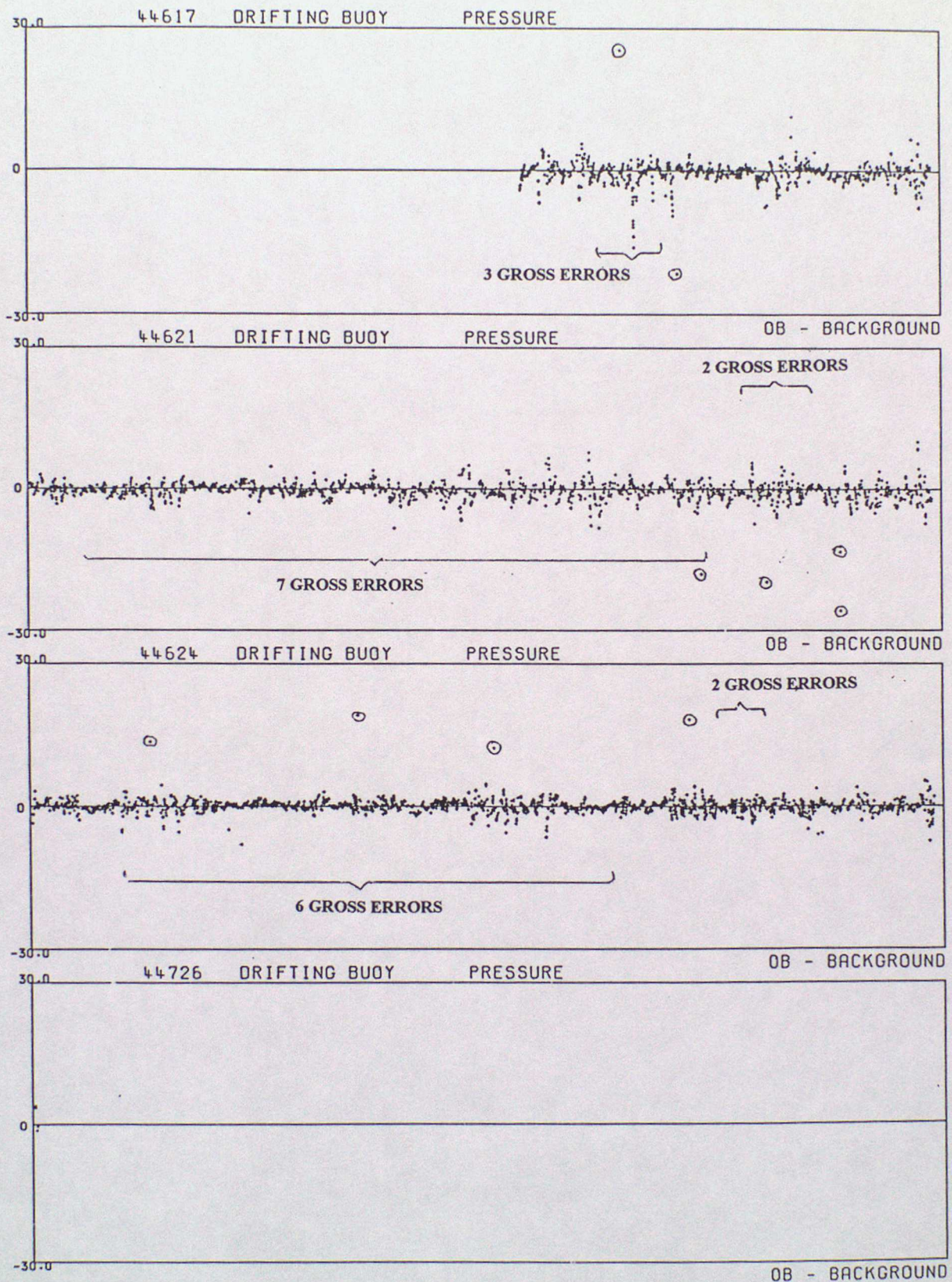
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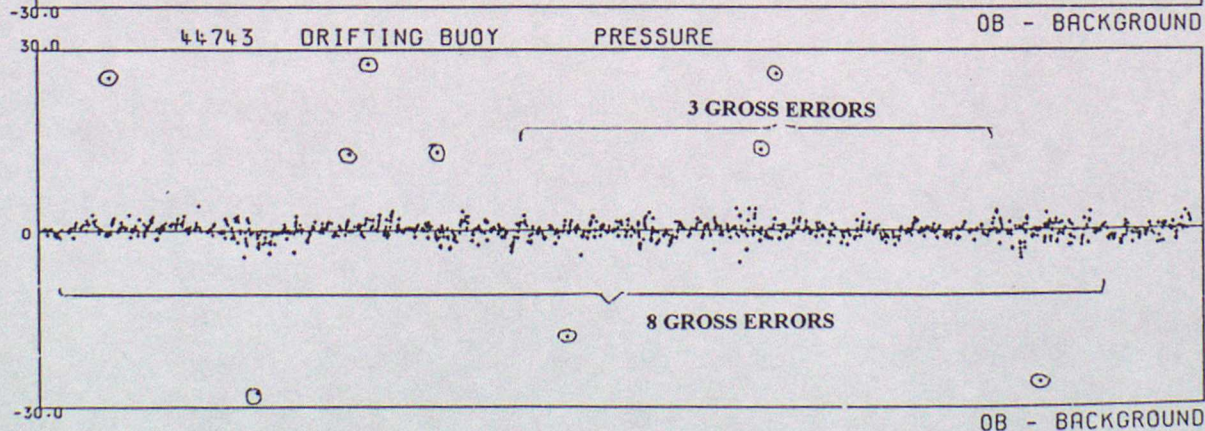
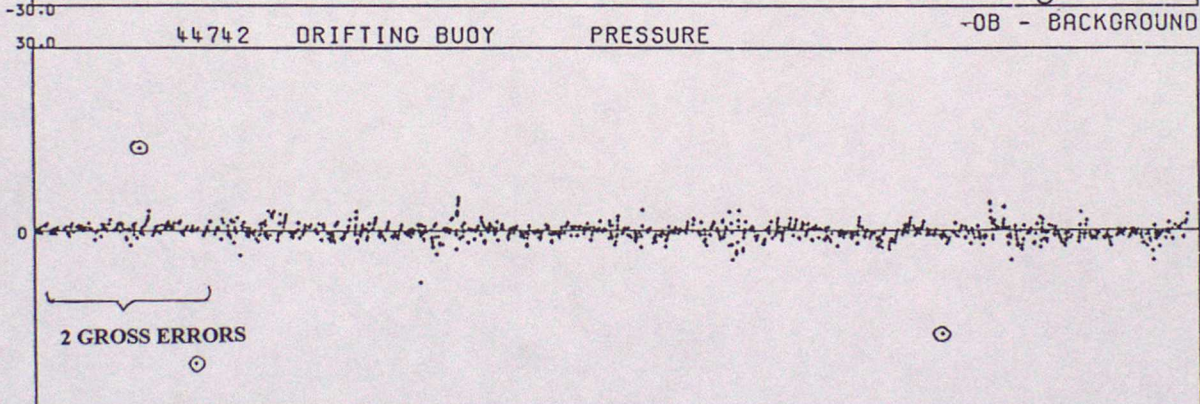
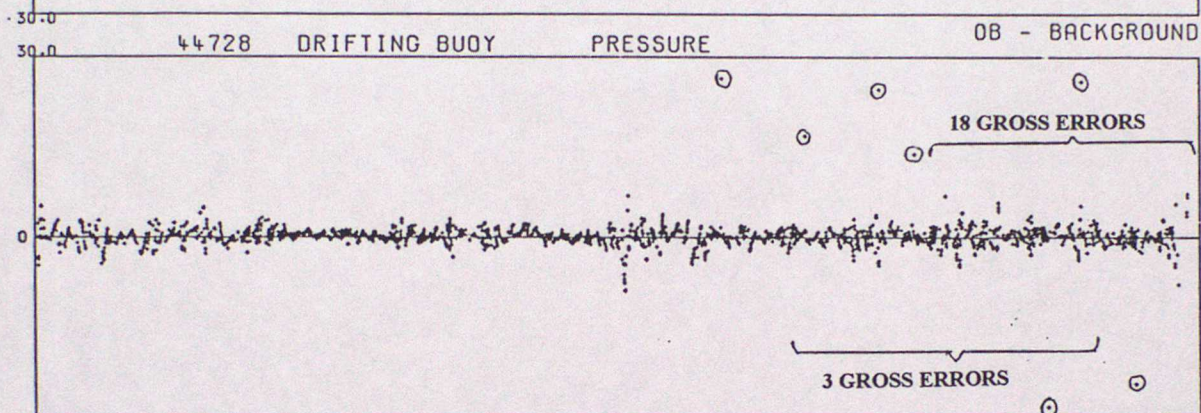
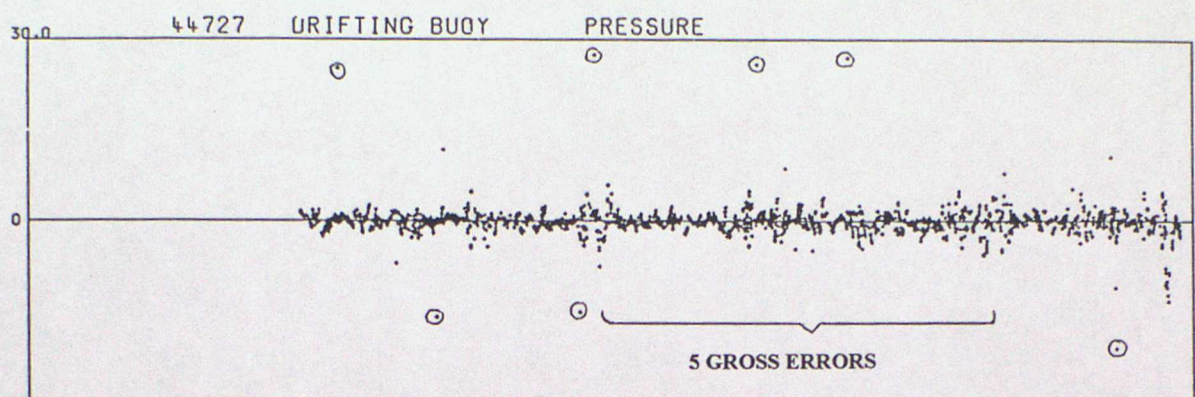
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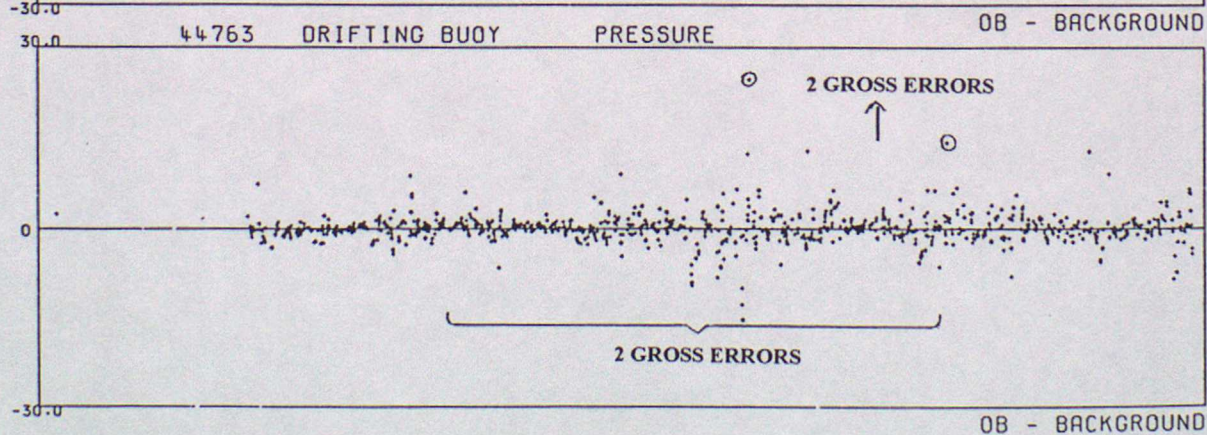
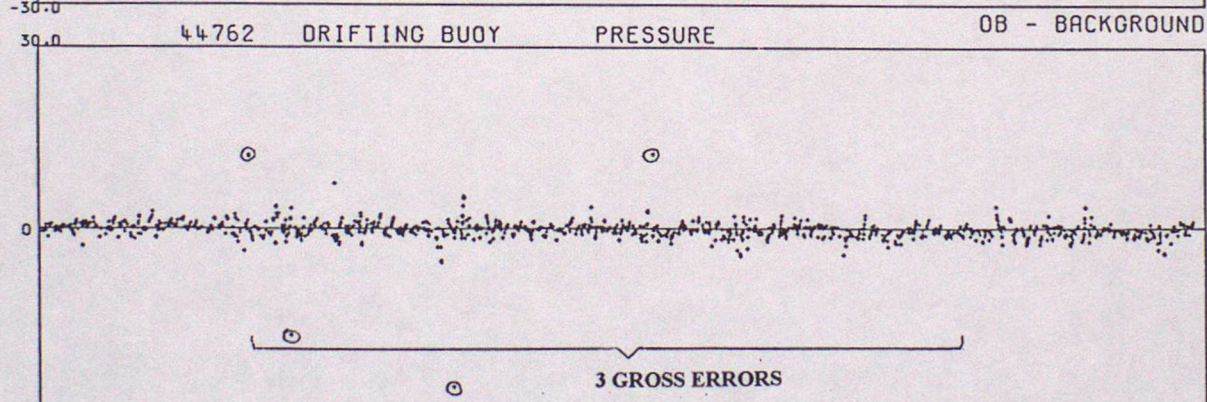
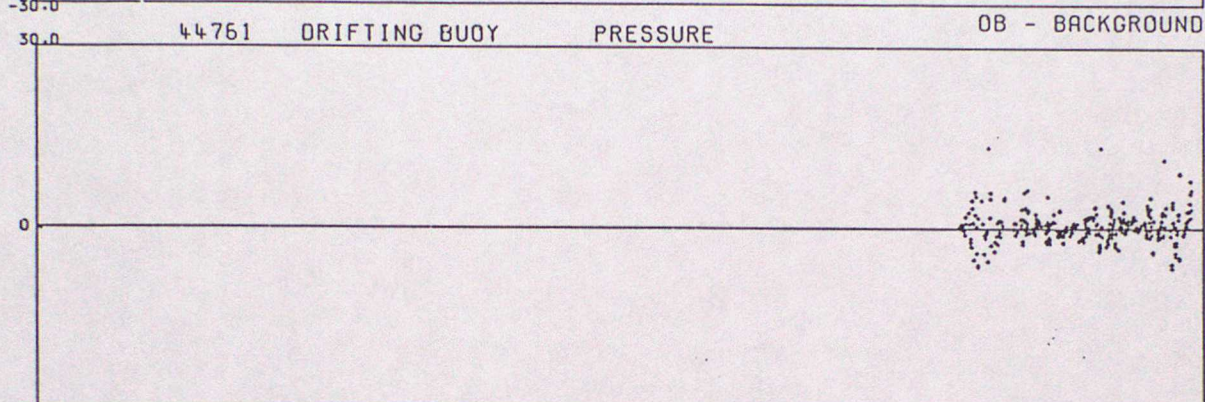
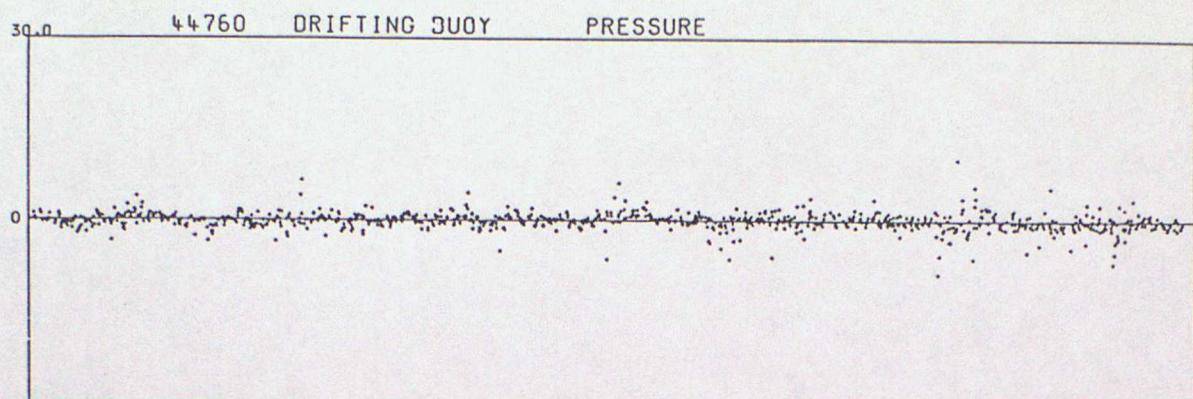
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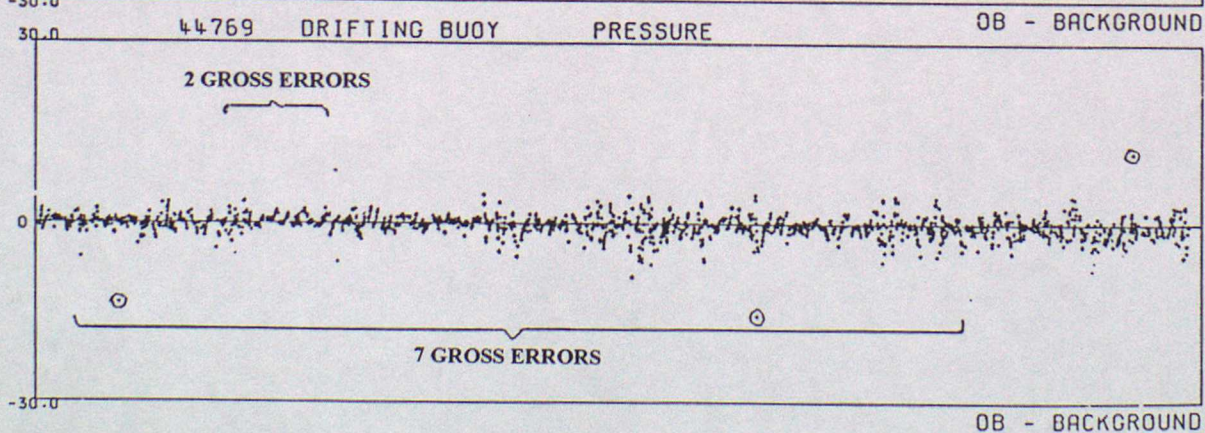
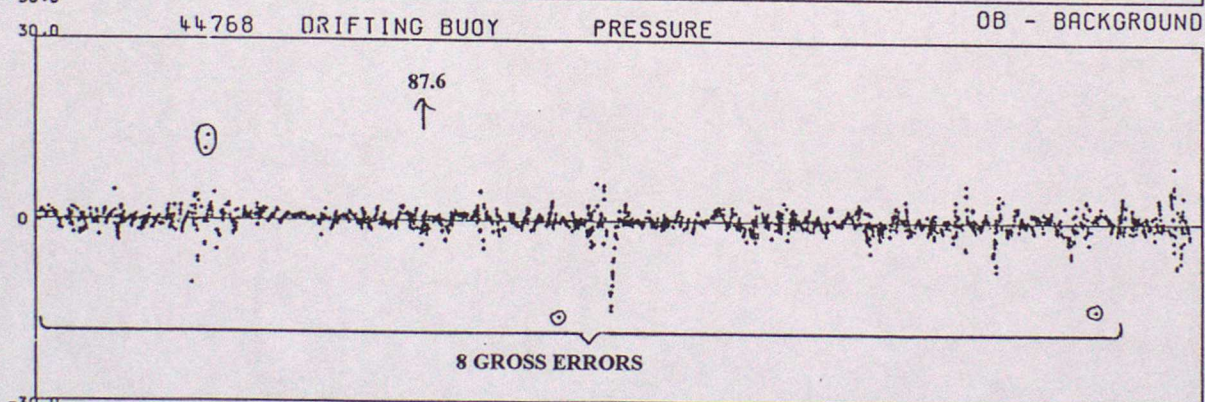
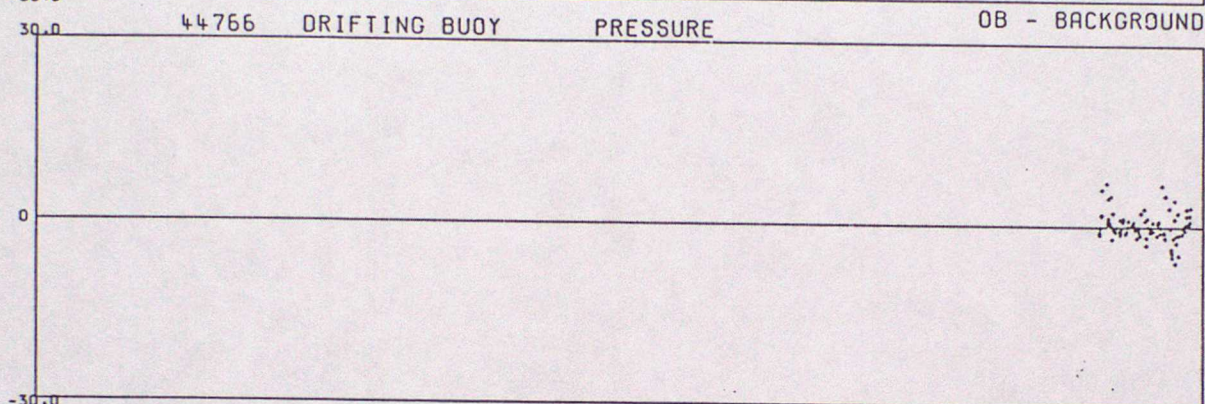
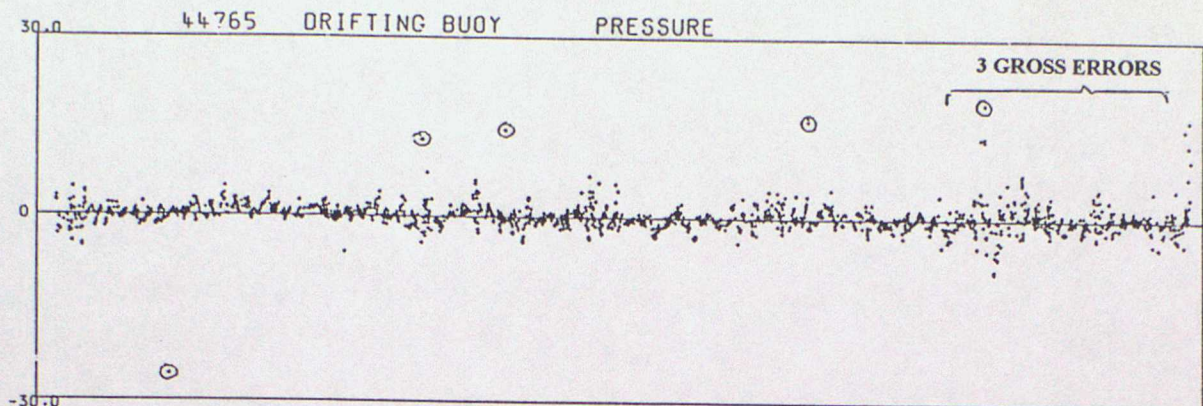
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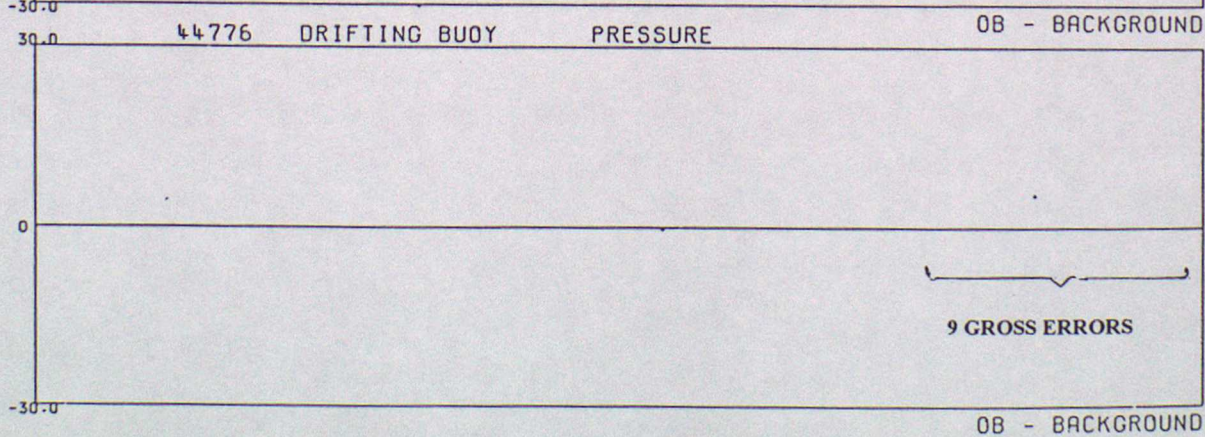
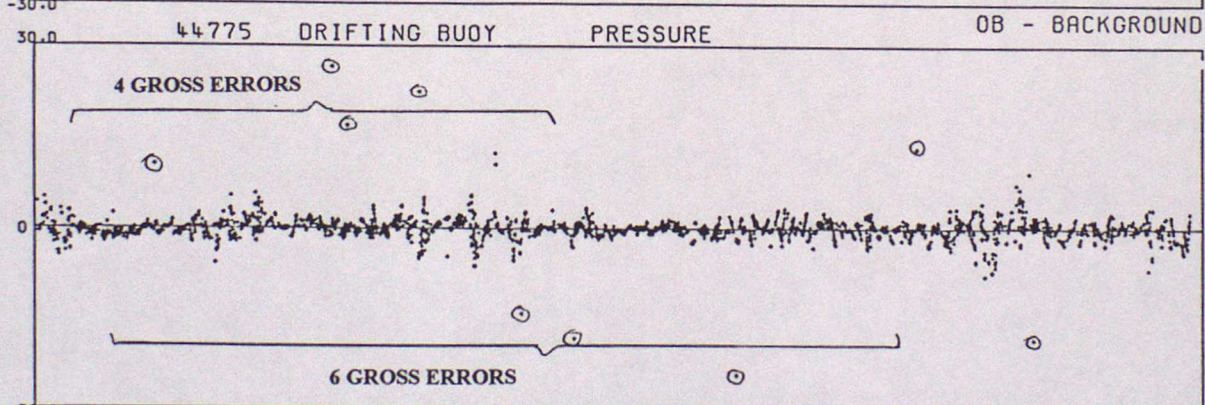
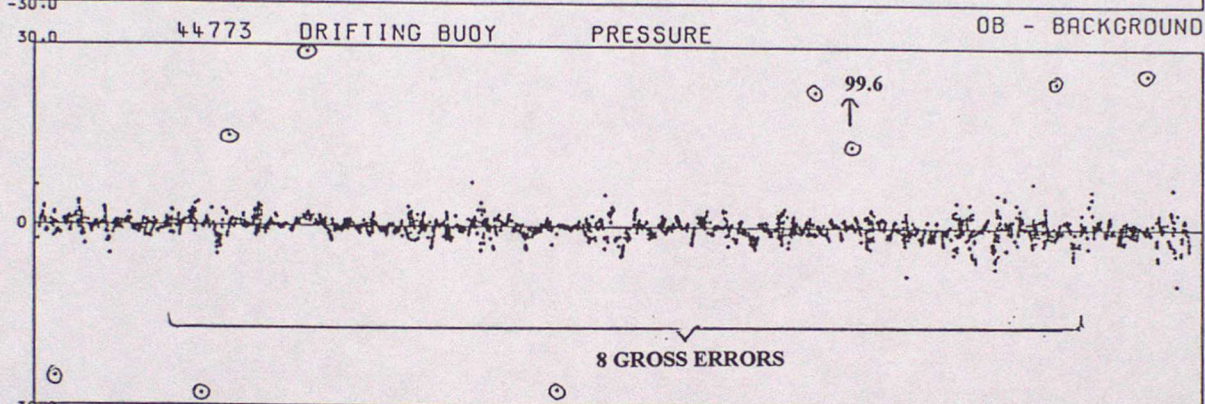
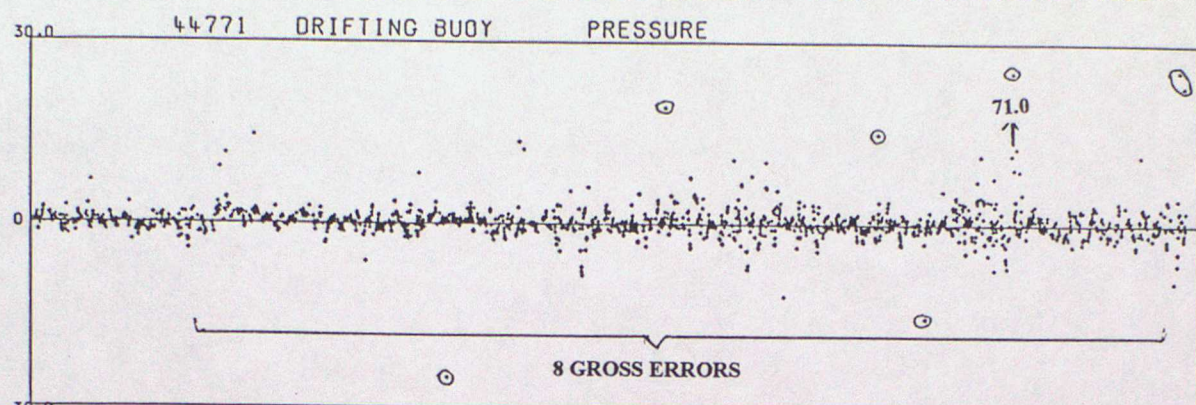
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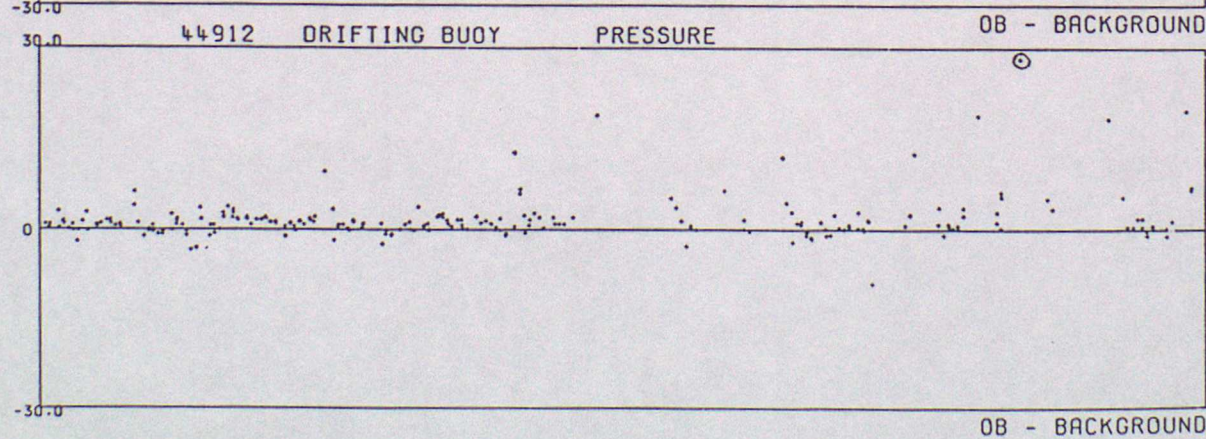
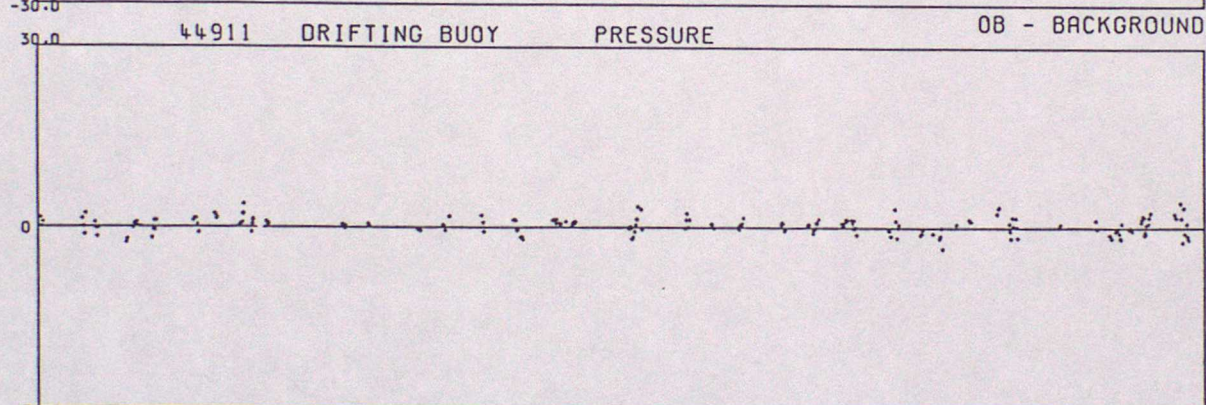
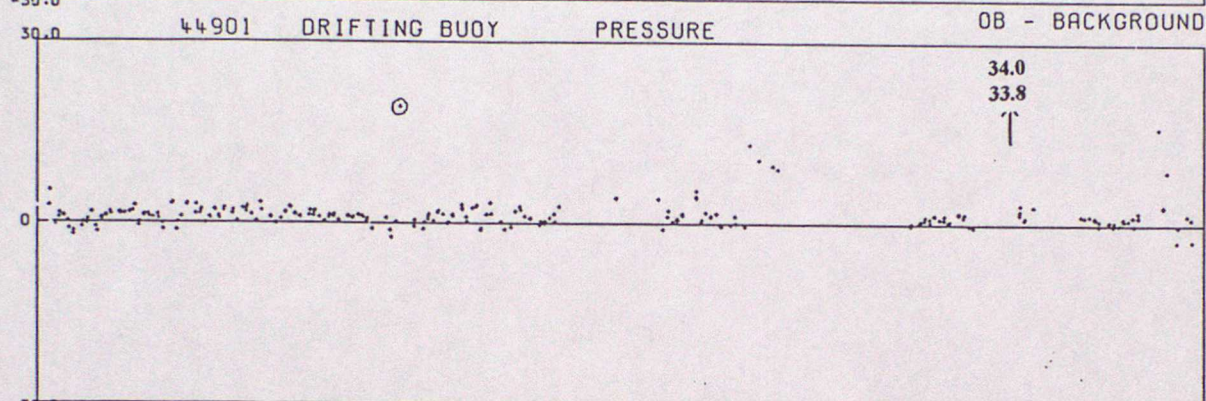
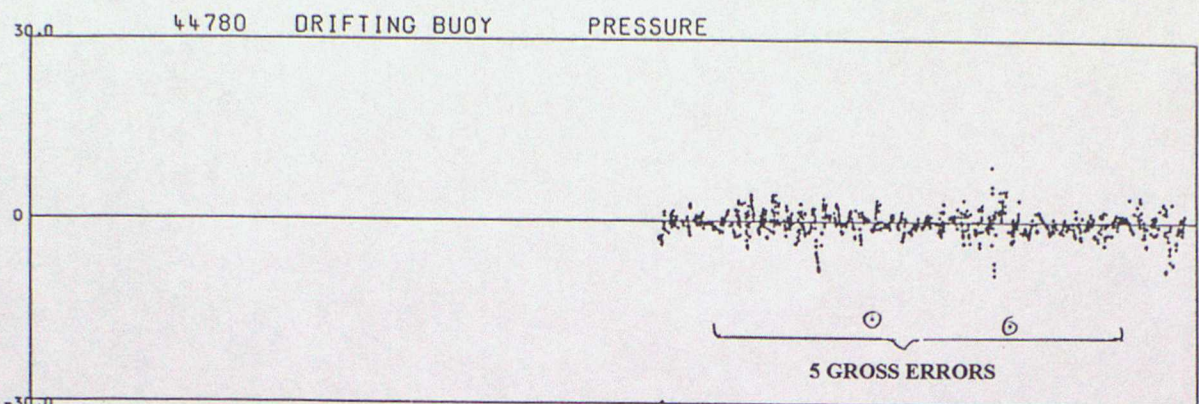
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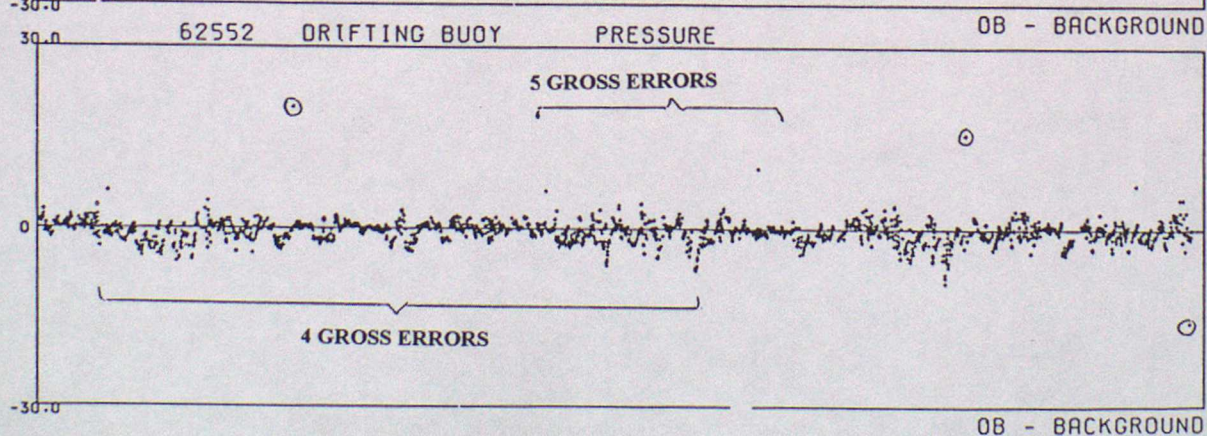
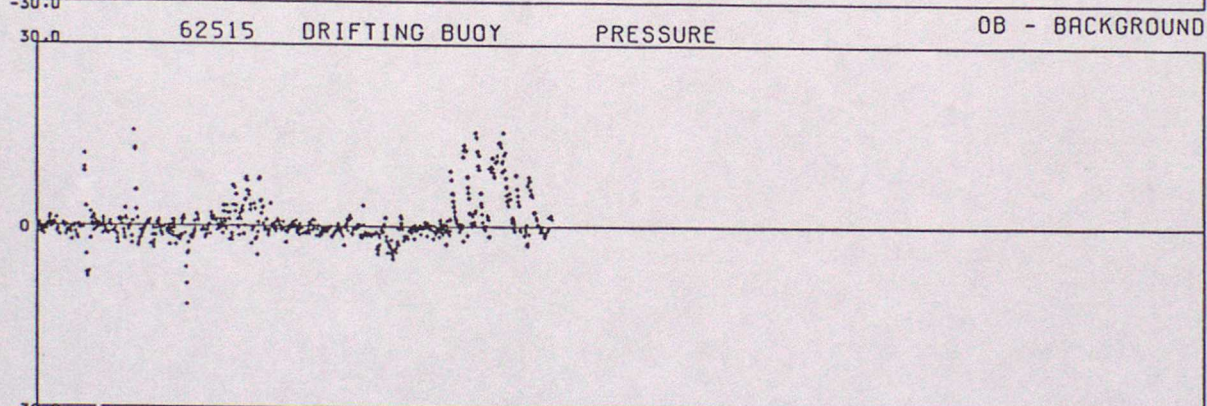
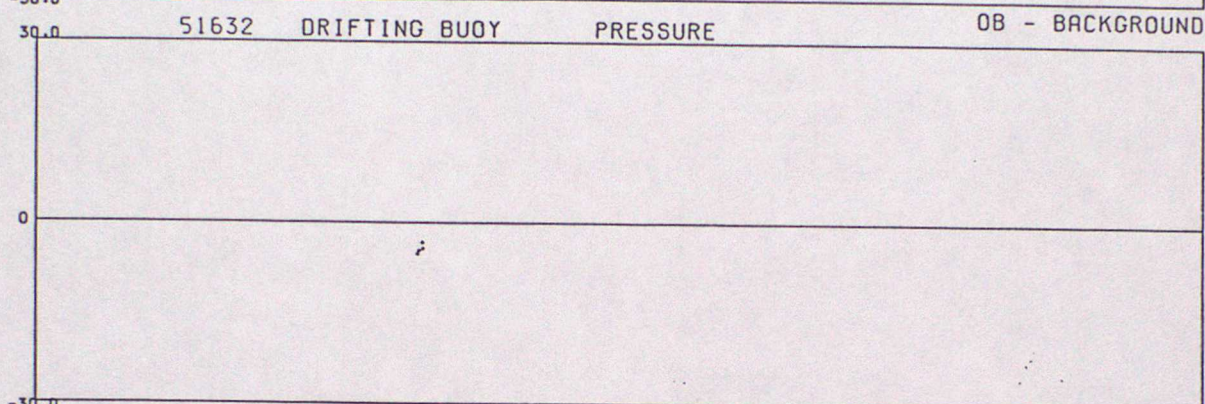
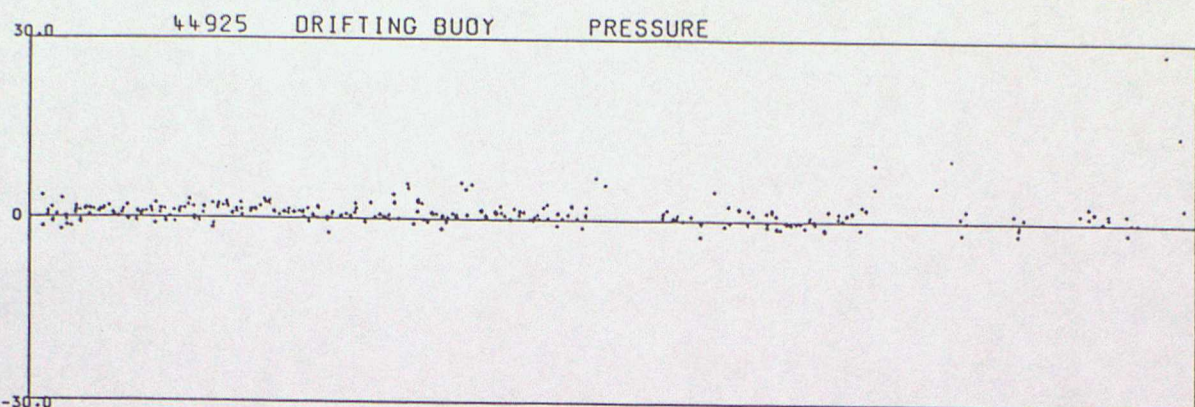
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



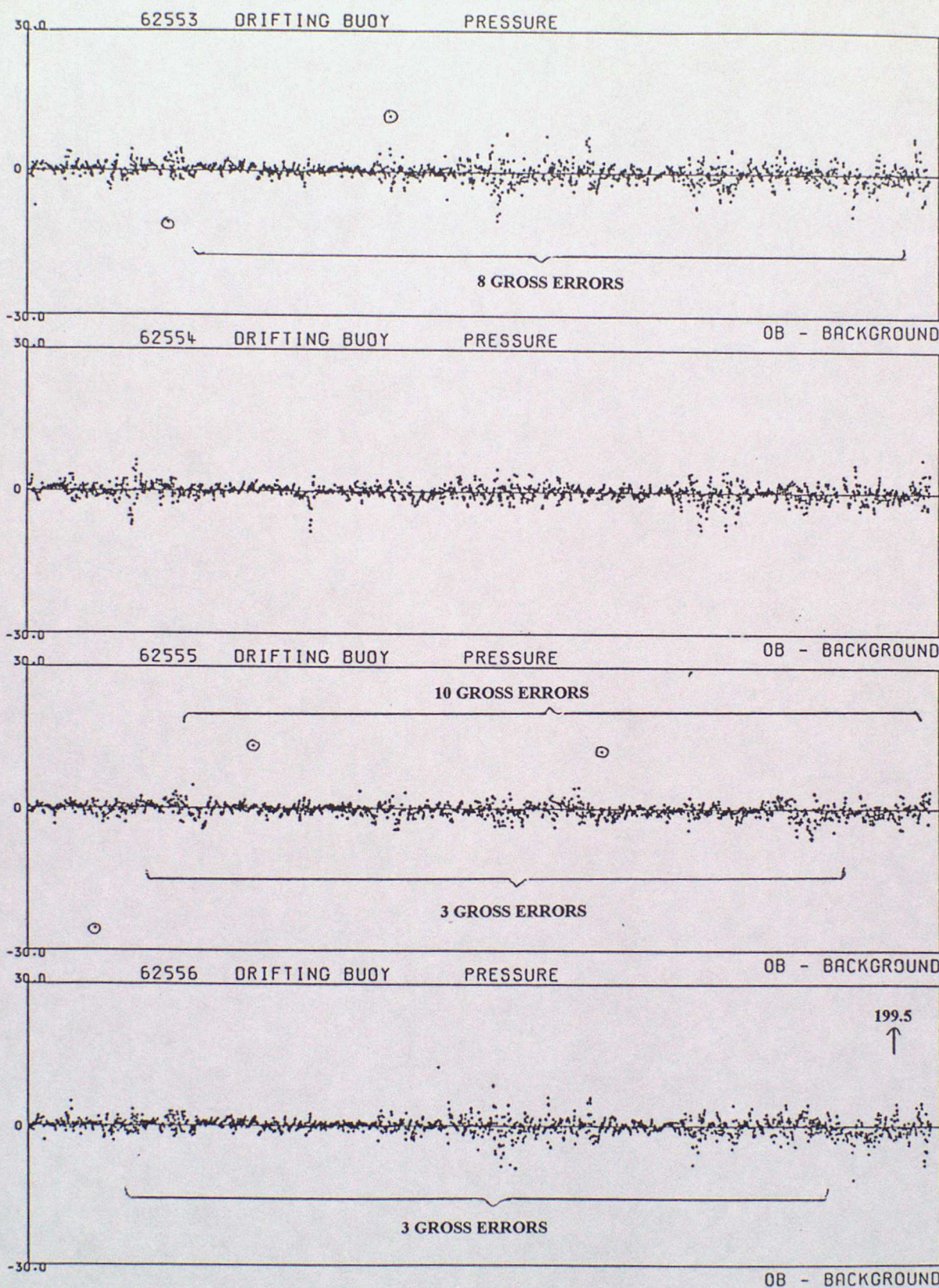
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



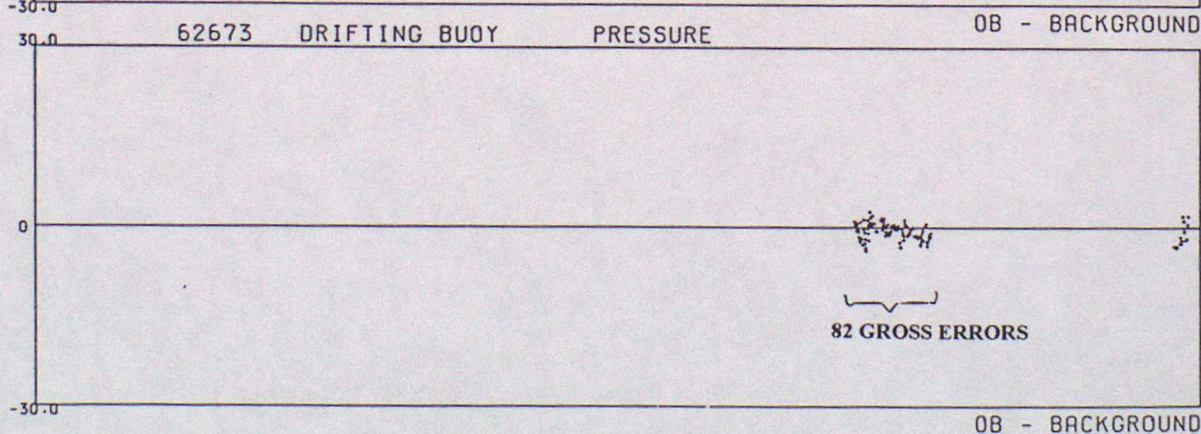
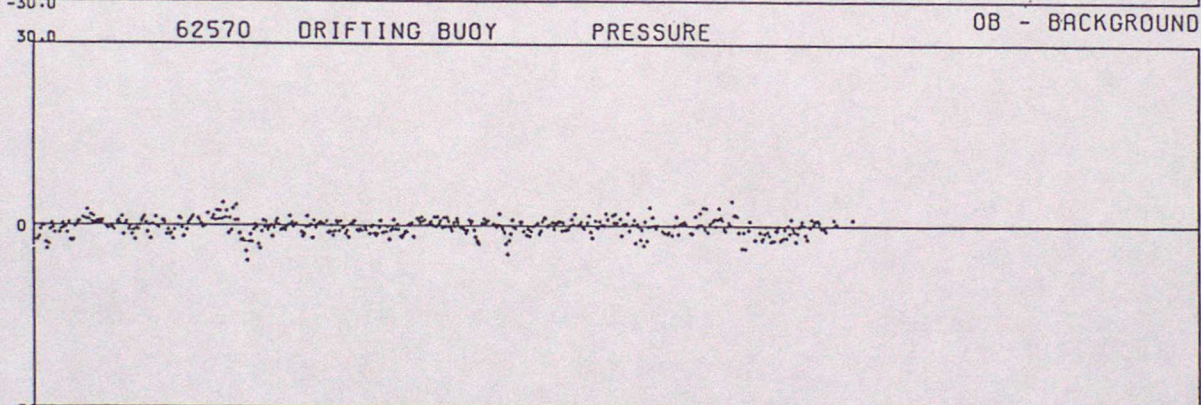
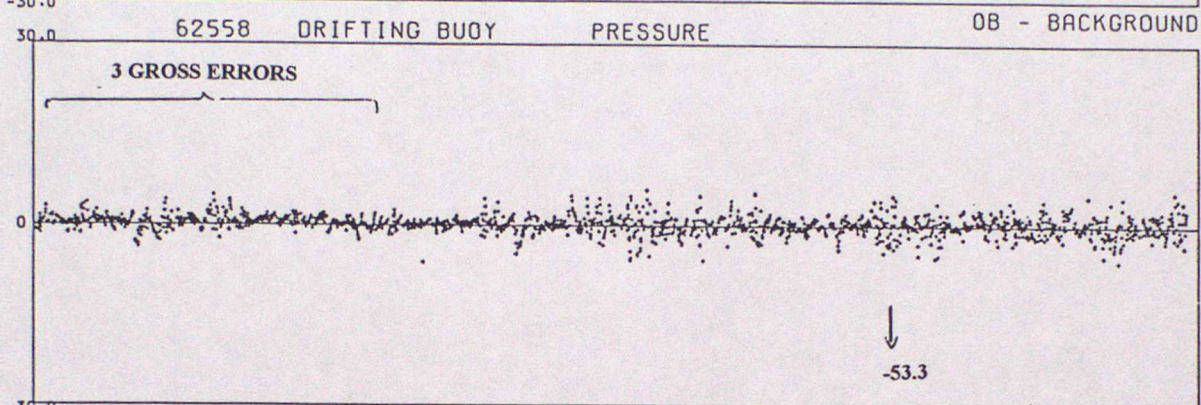
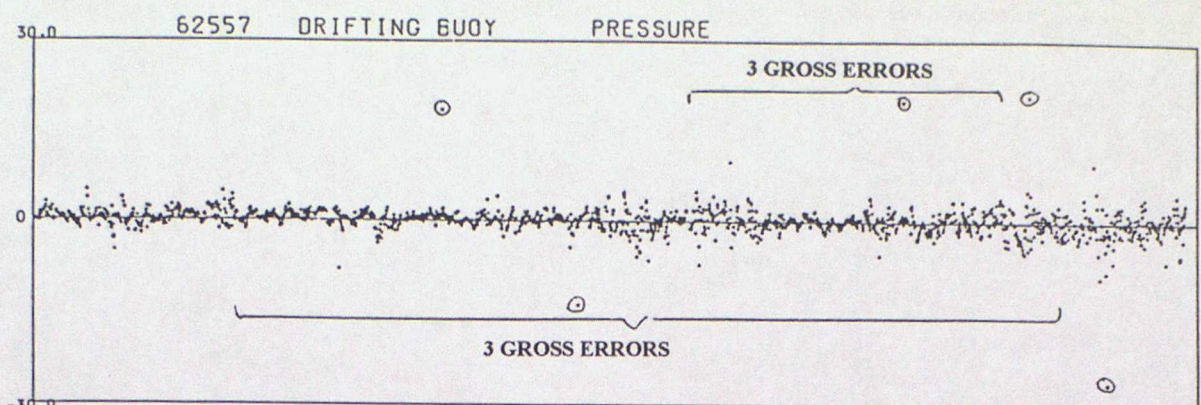
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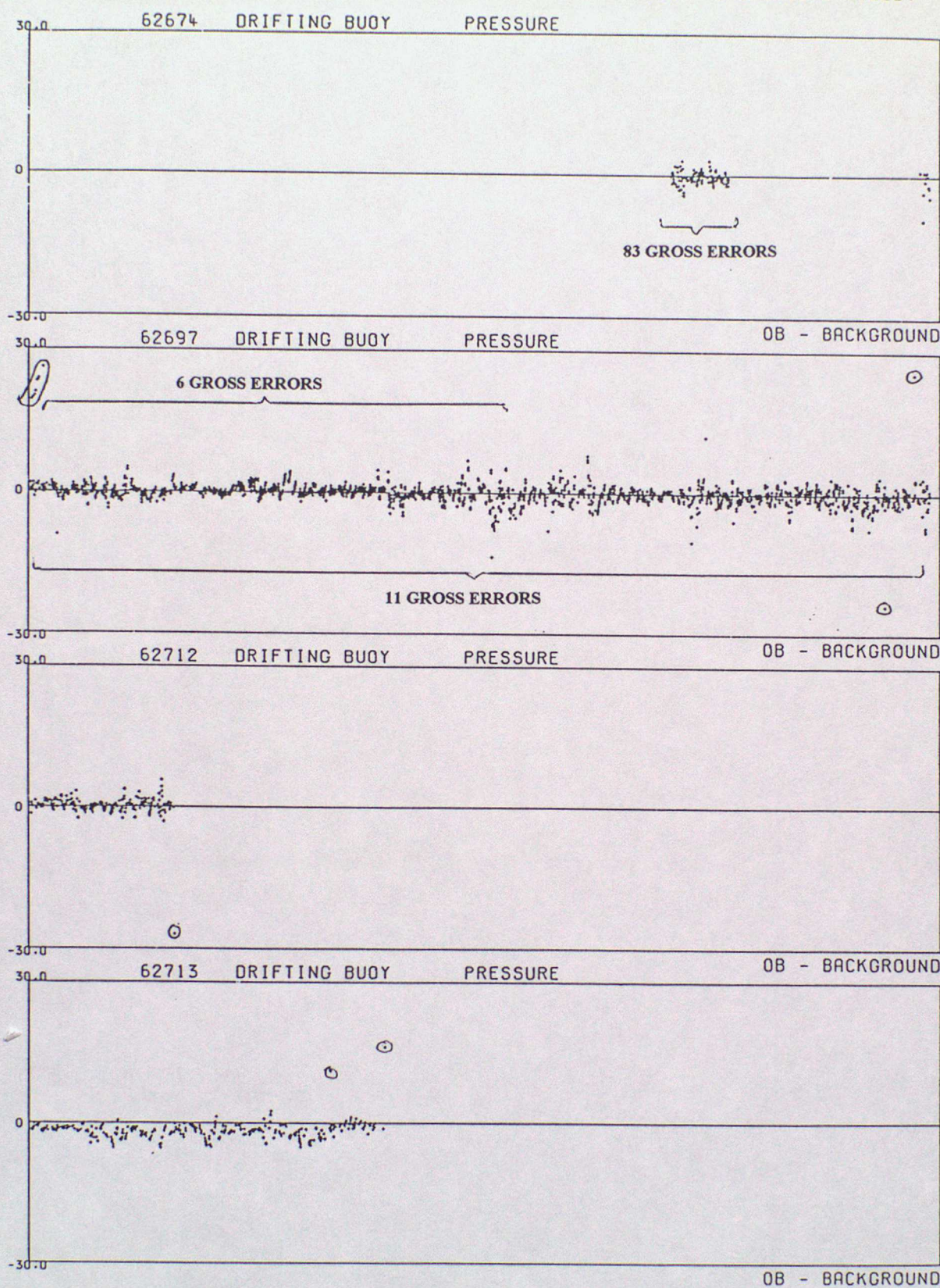
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



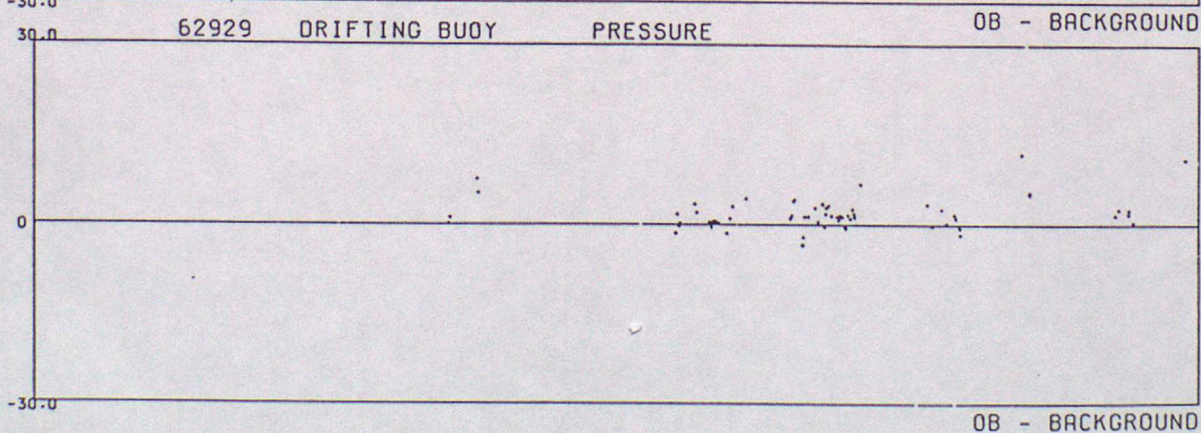
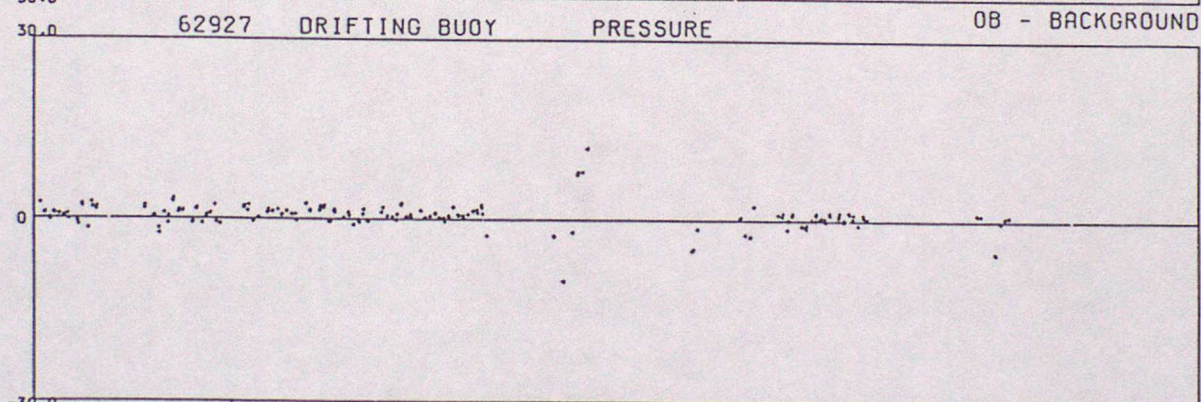
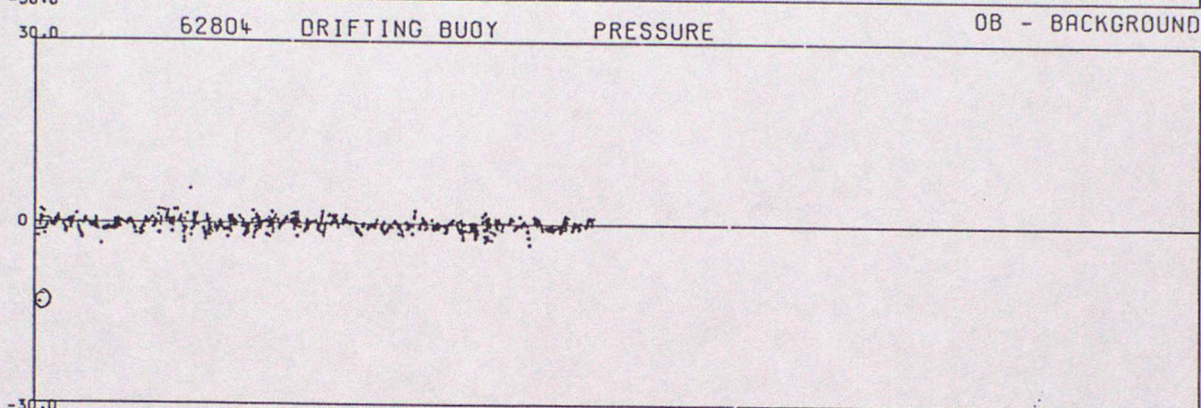
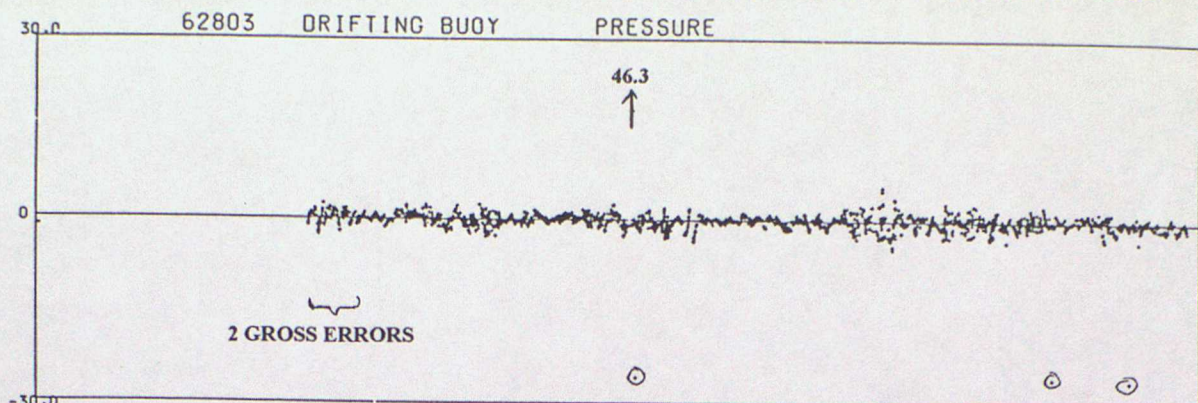
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



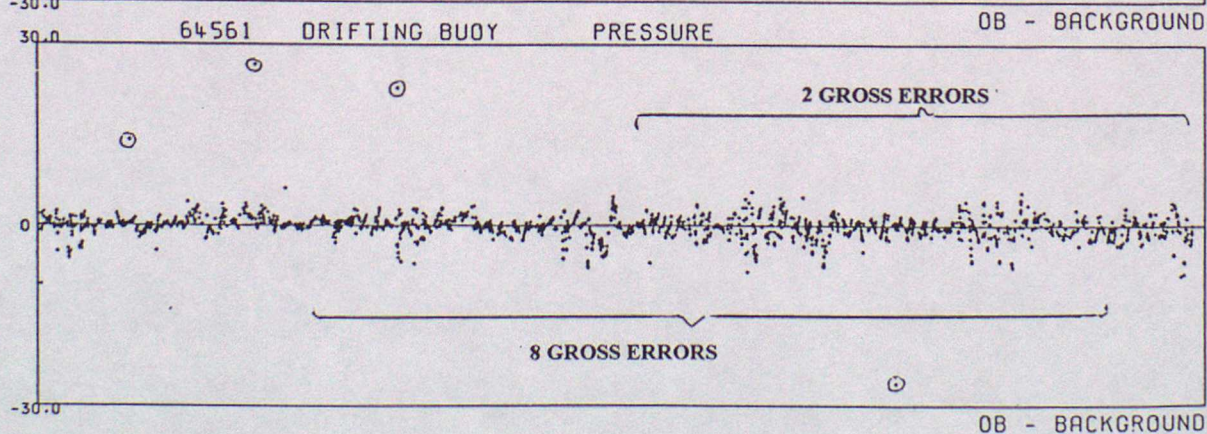
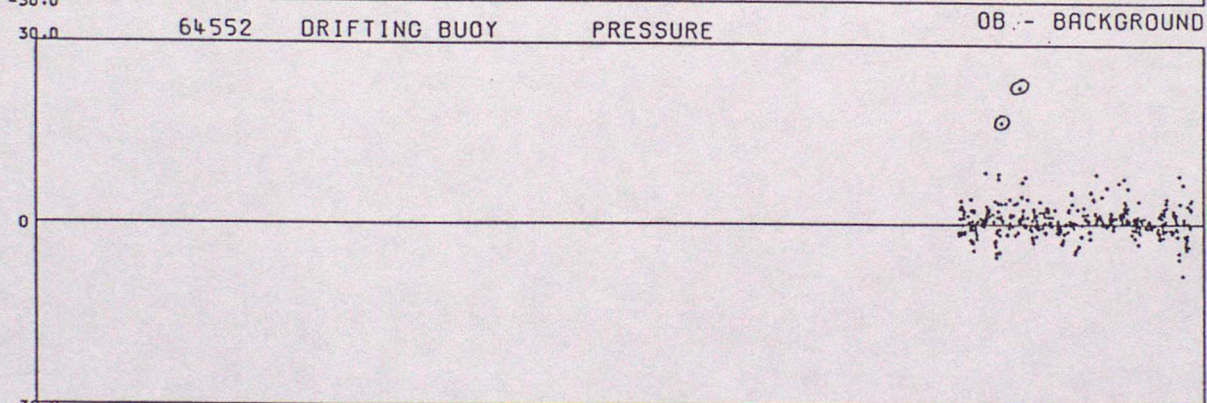
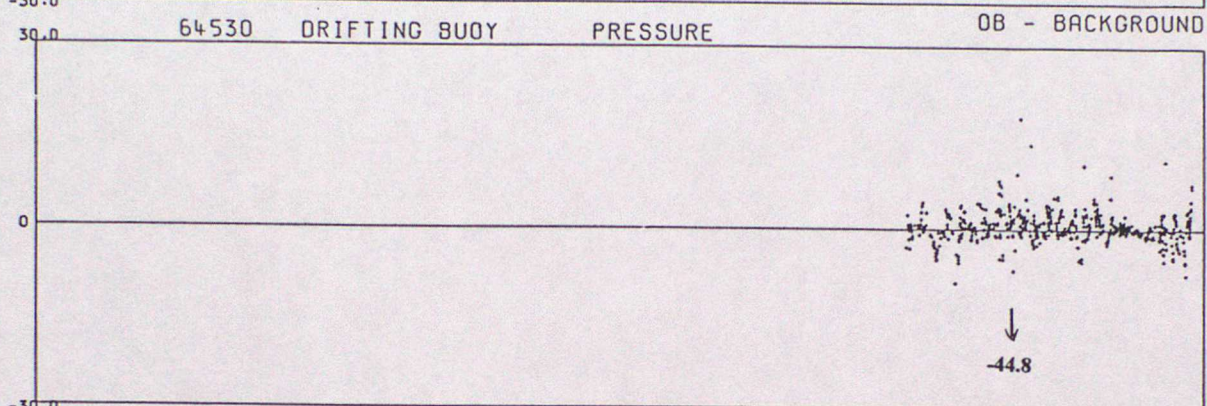
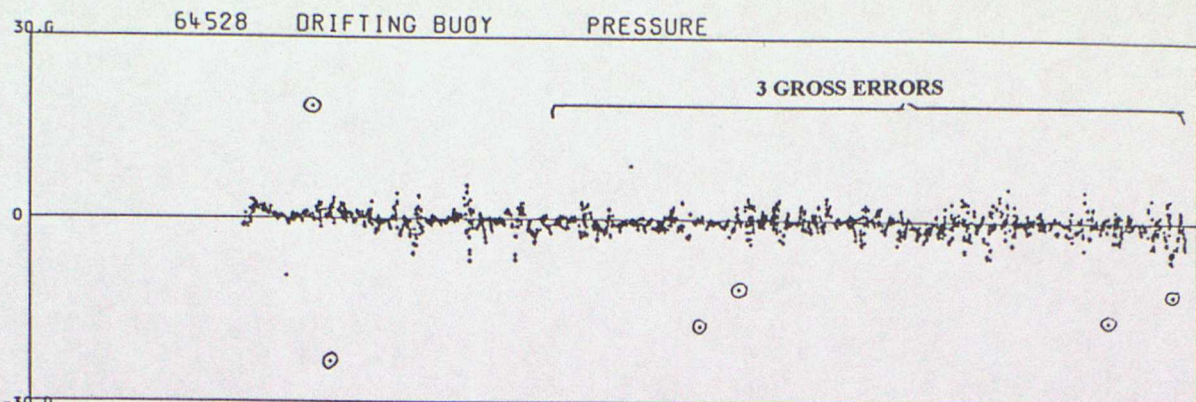
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



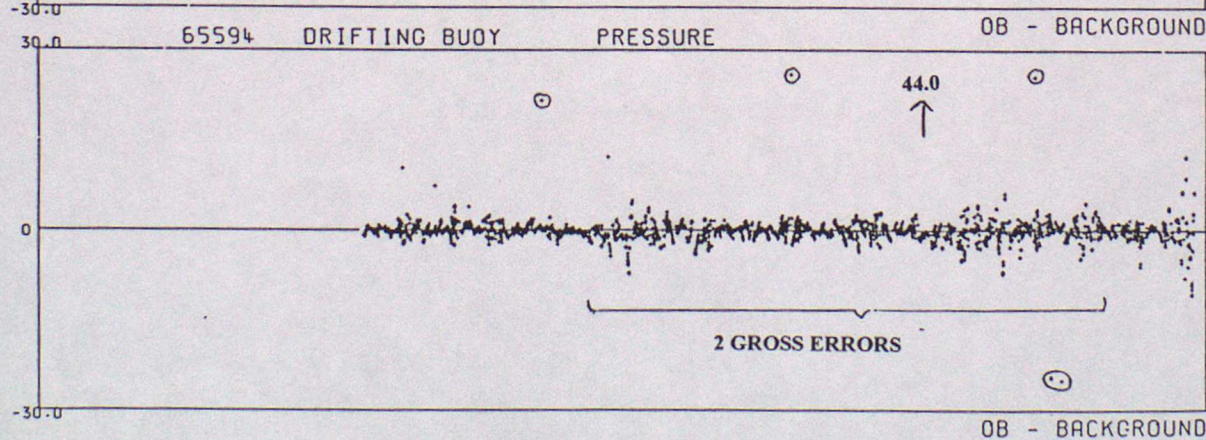
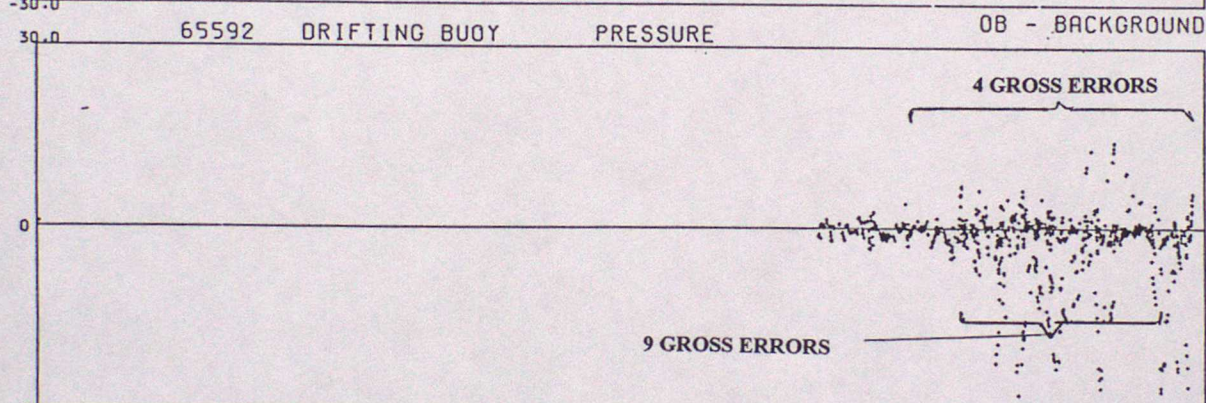
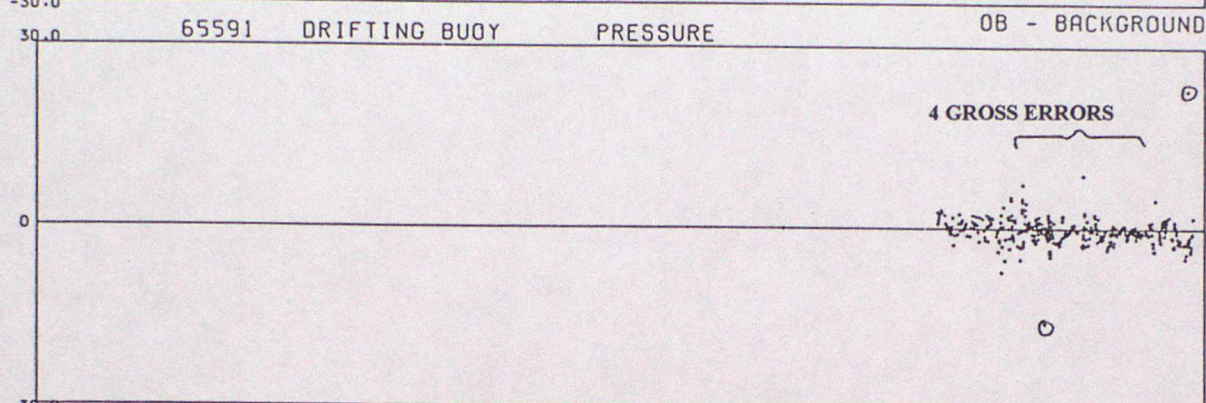
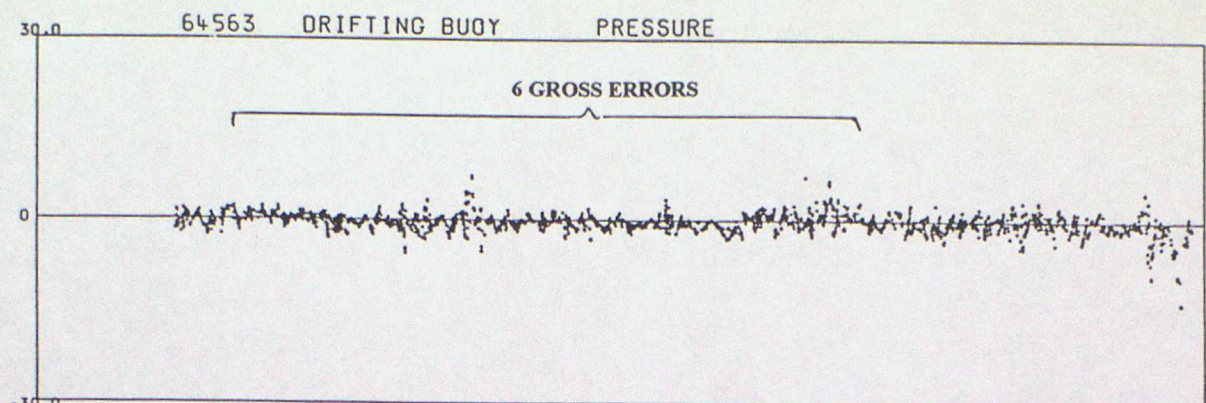
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)

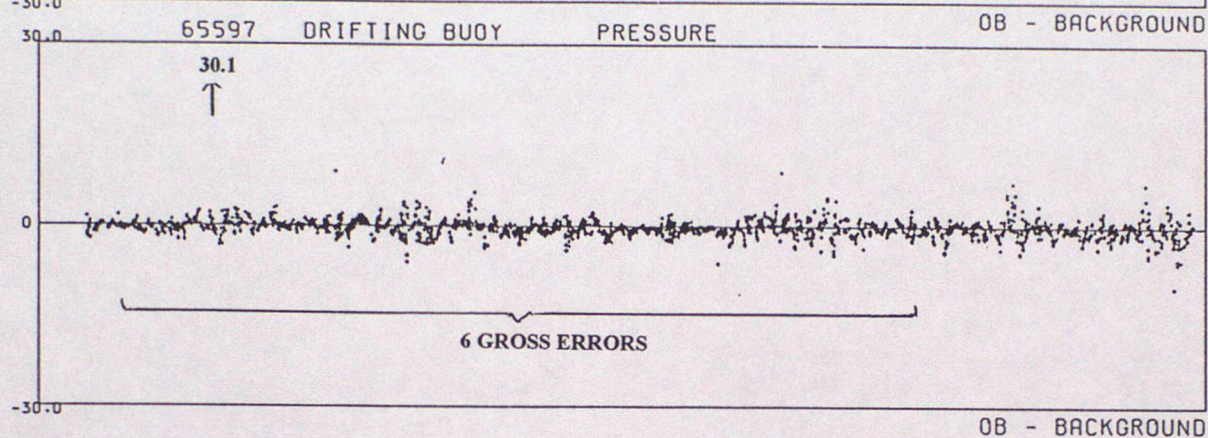
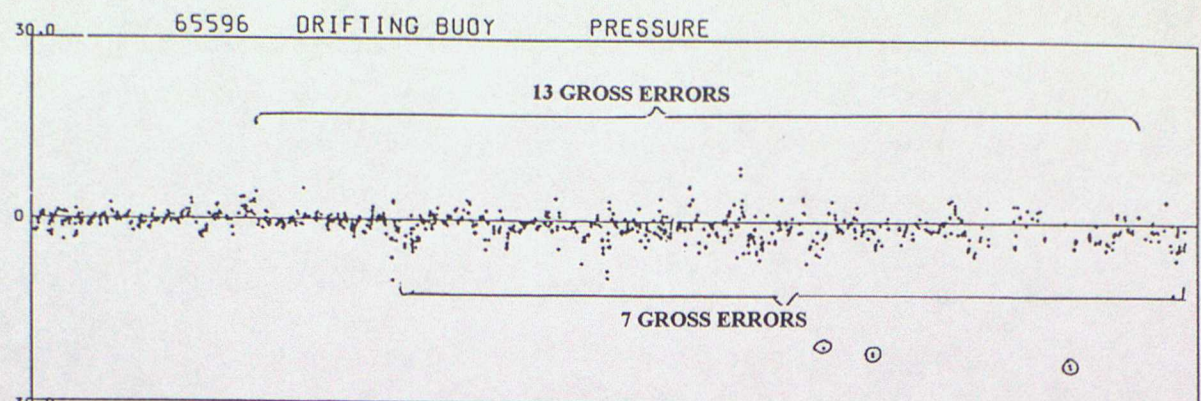


DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



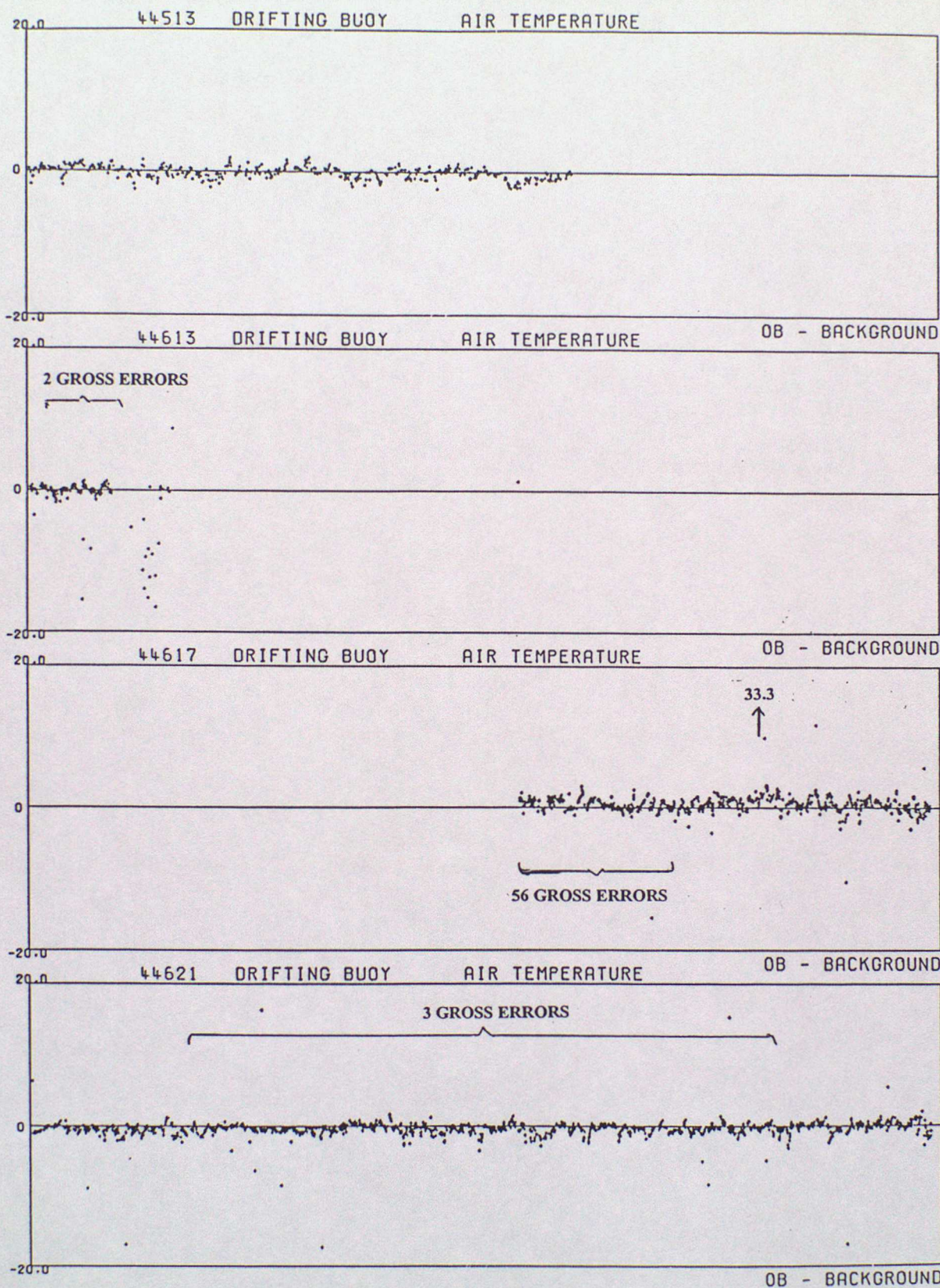
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



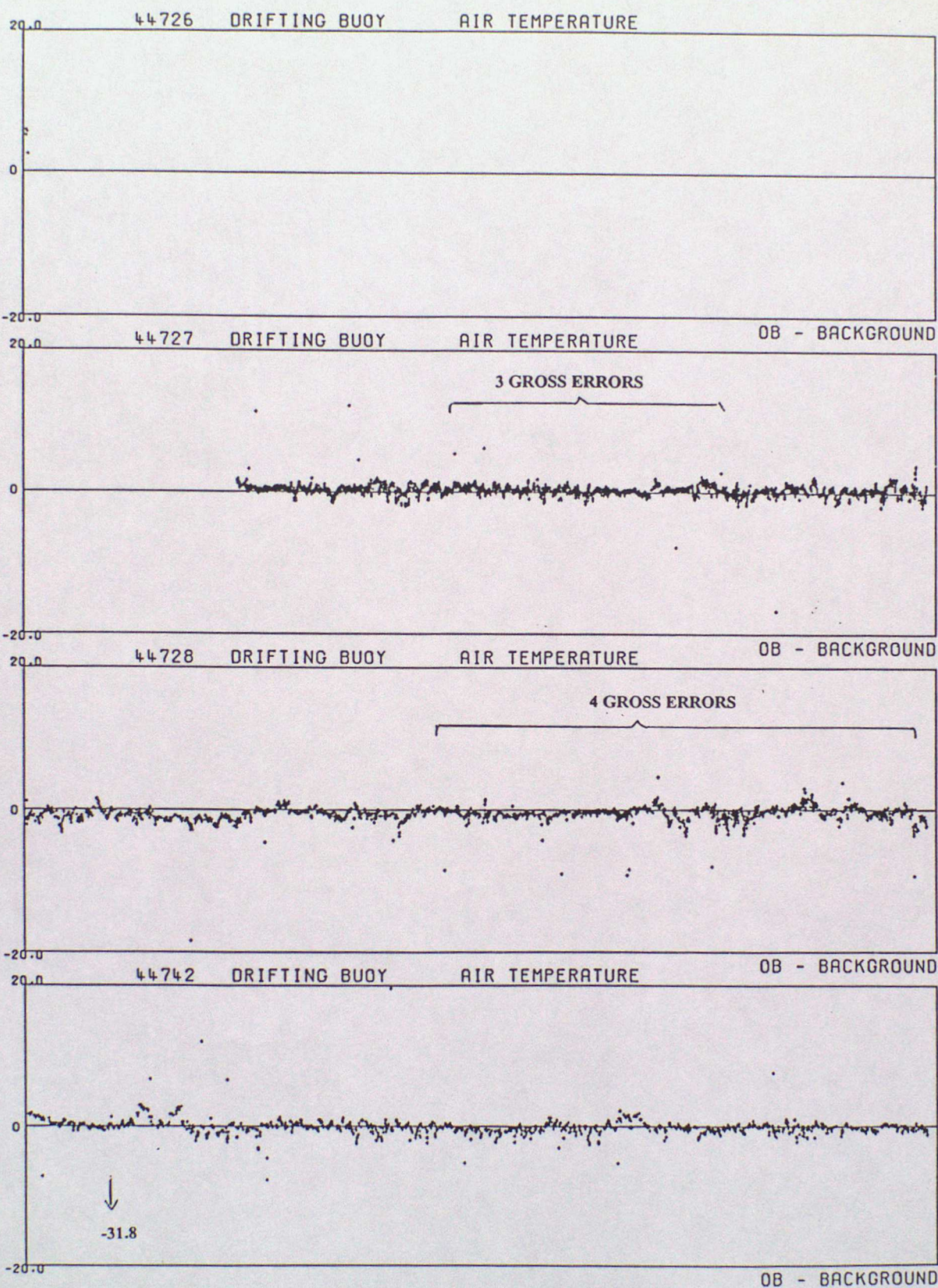


ANNEX C - TIME SERIES PLOTS OF AIR TEMPERATURE

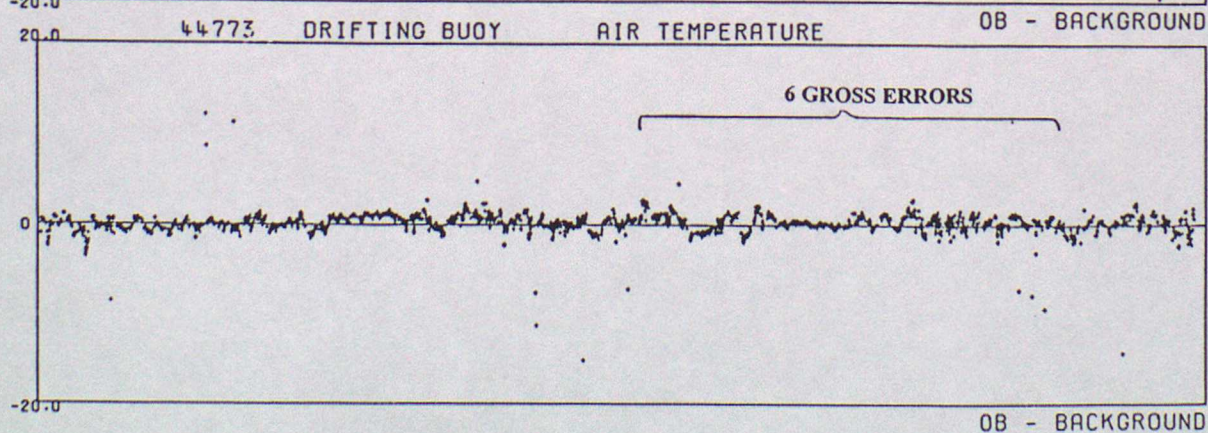
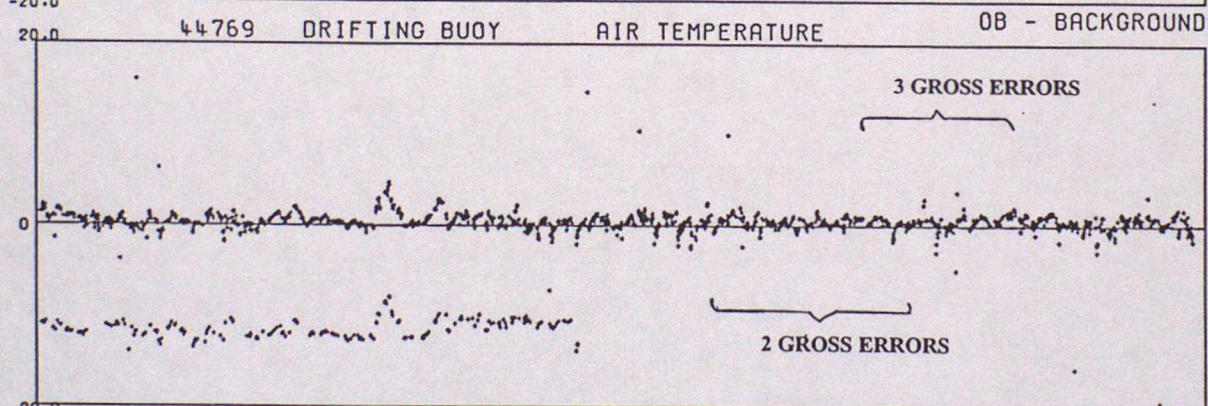
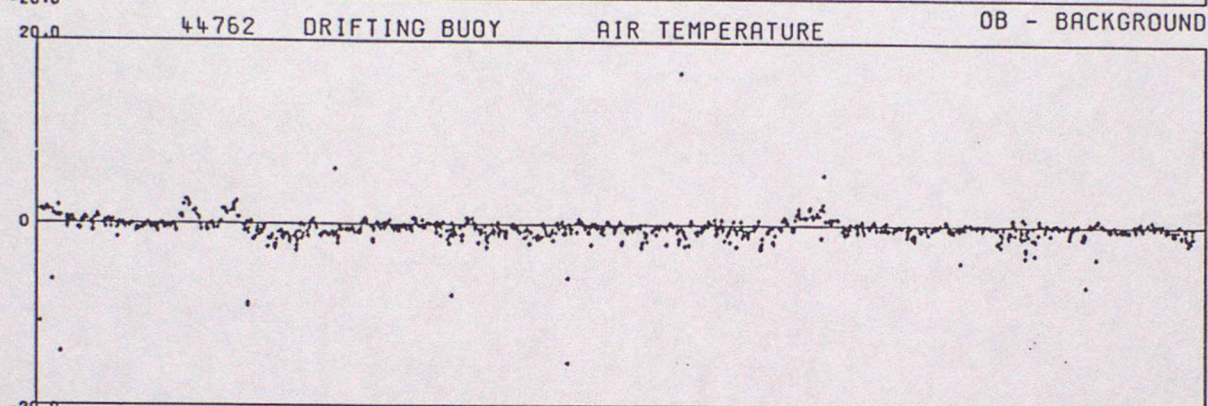
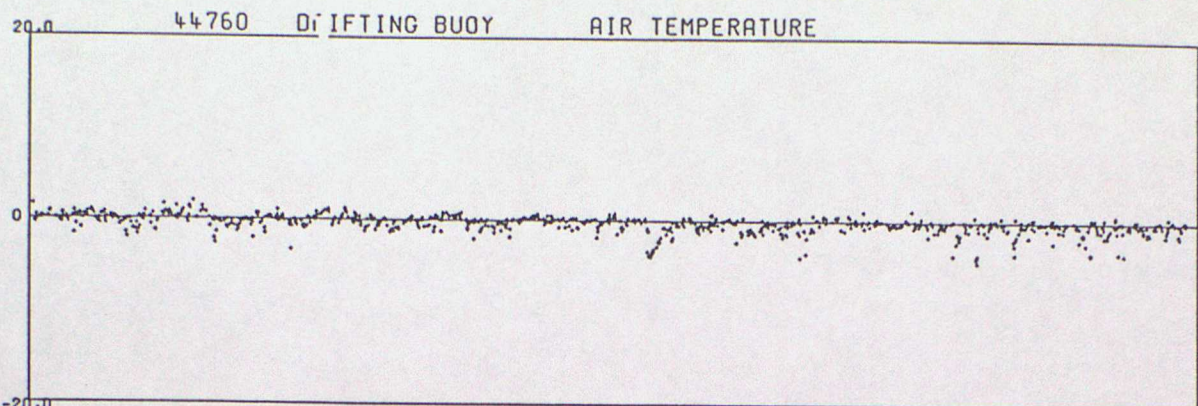
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



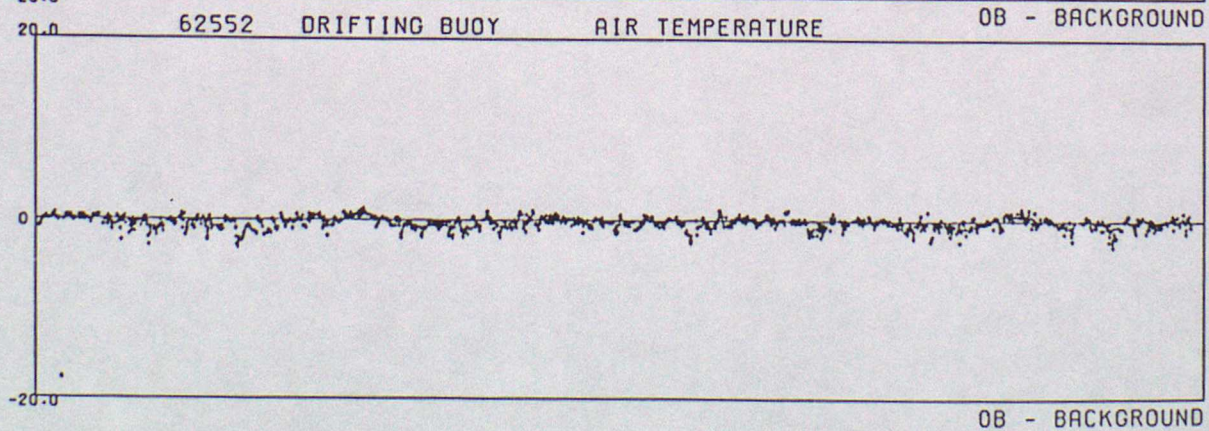
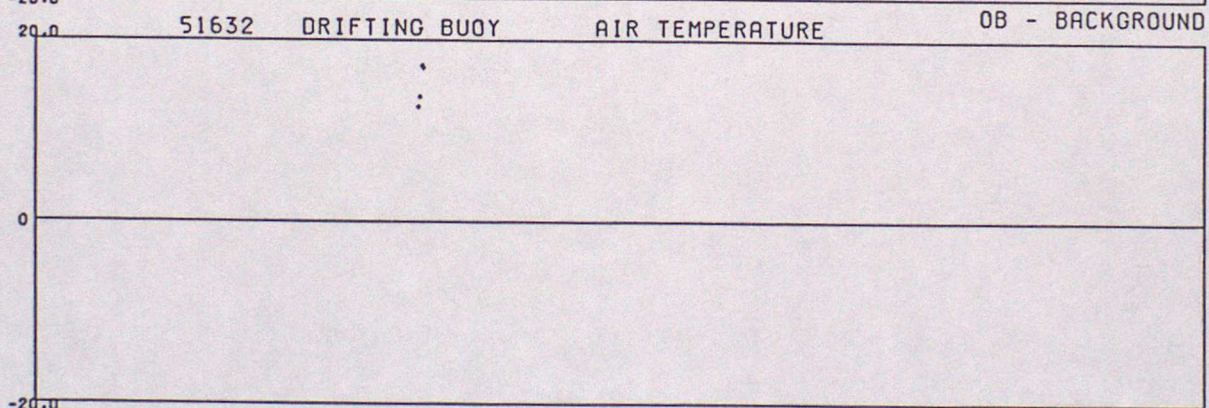
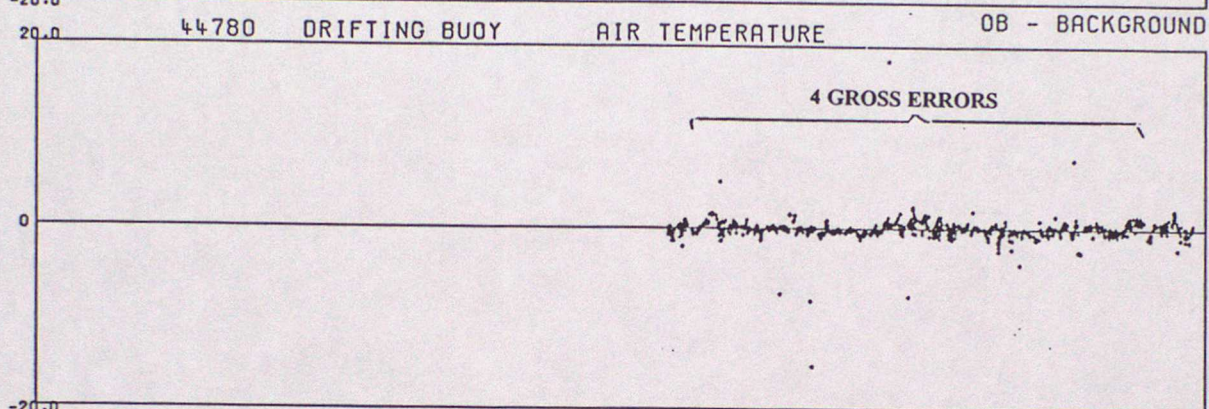
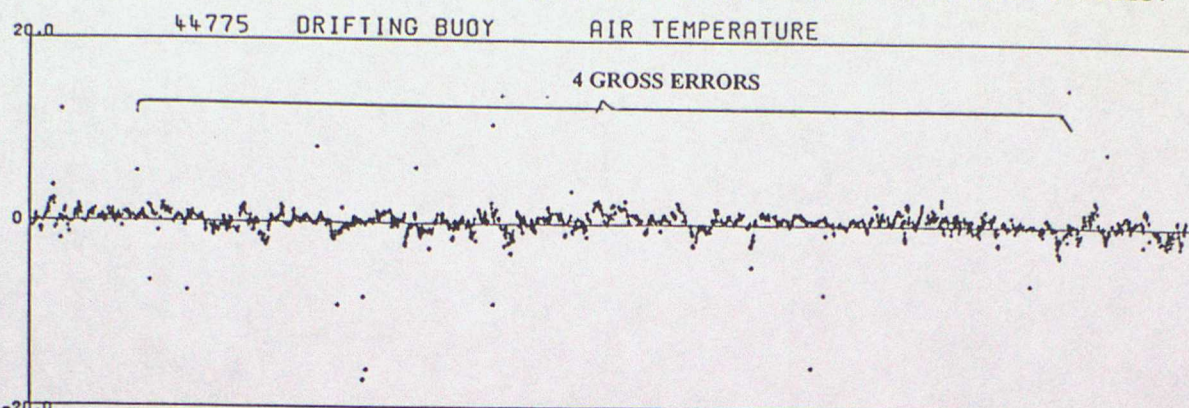
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



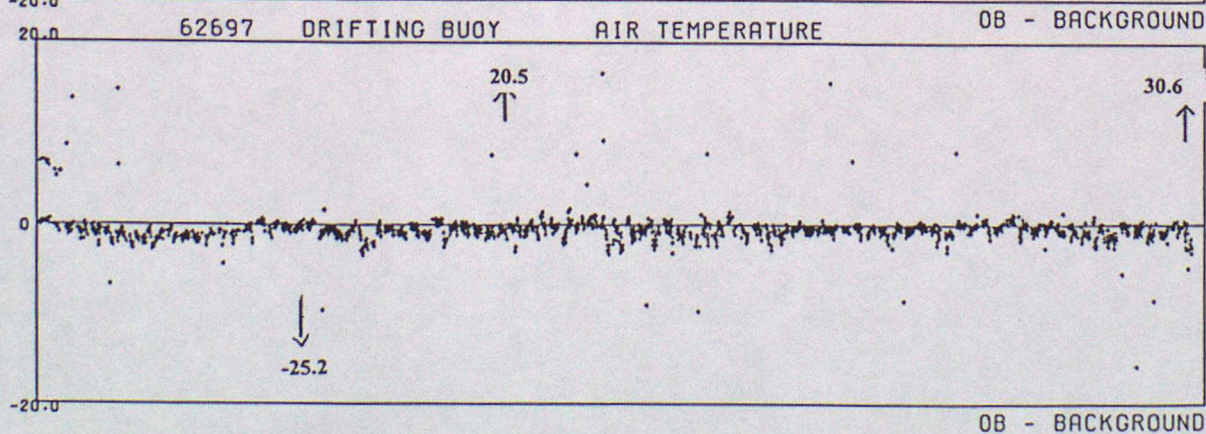
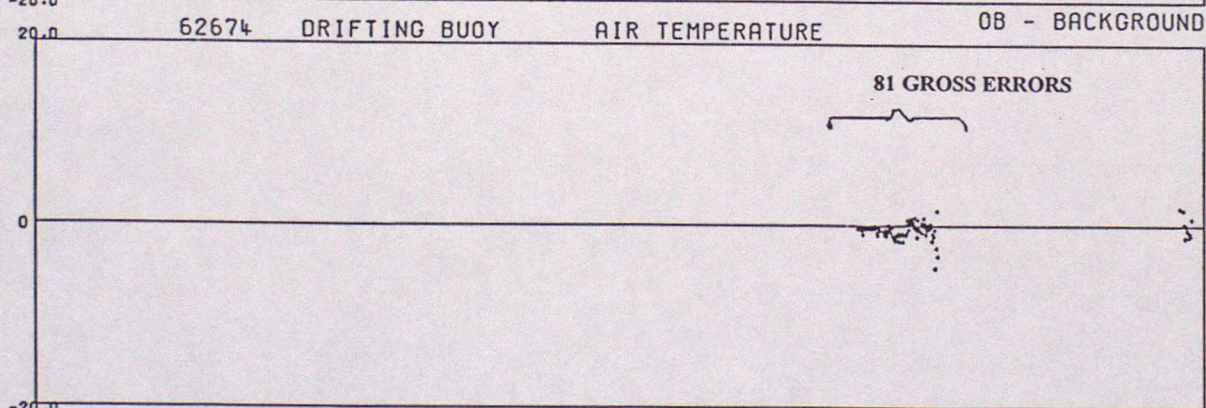
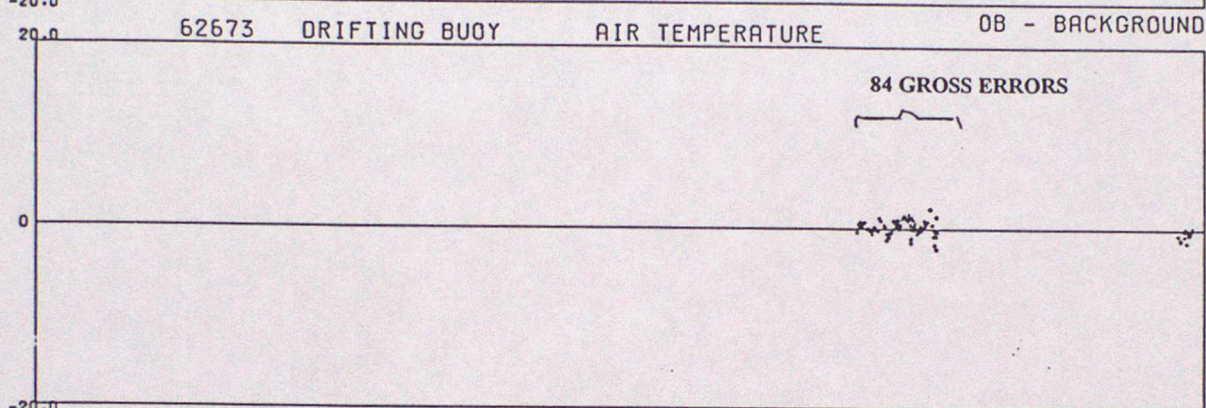
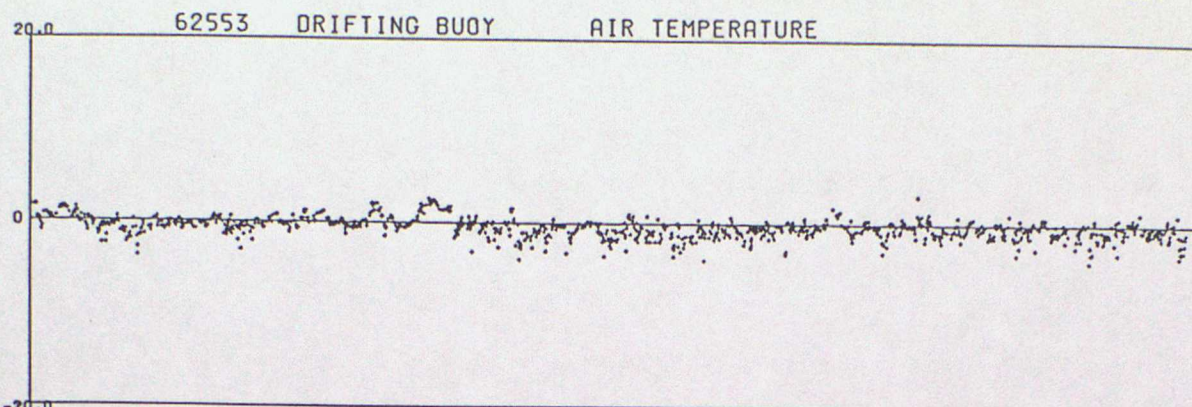
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



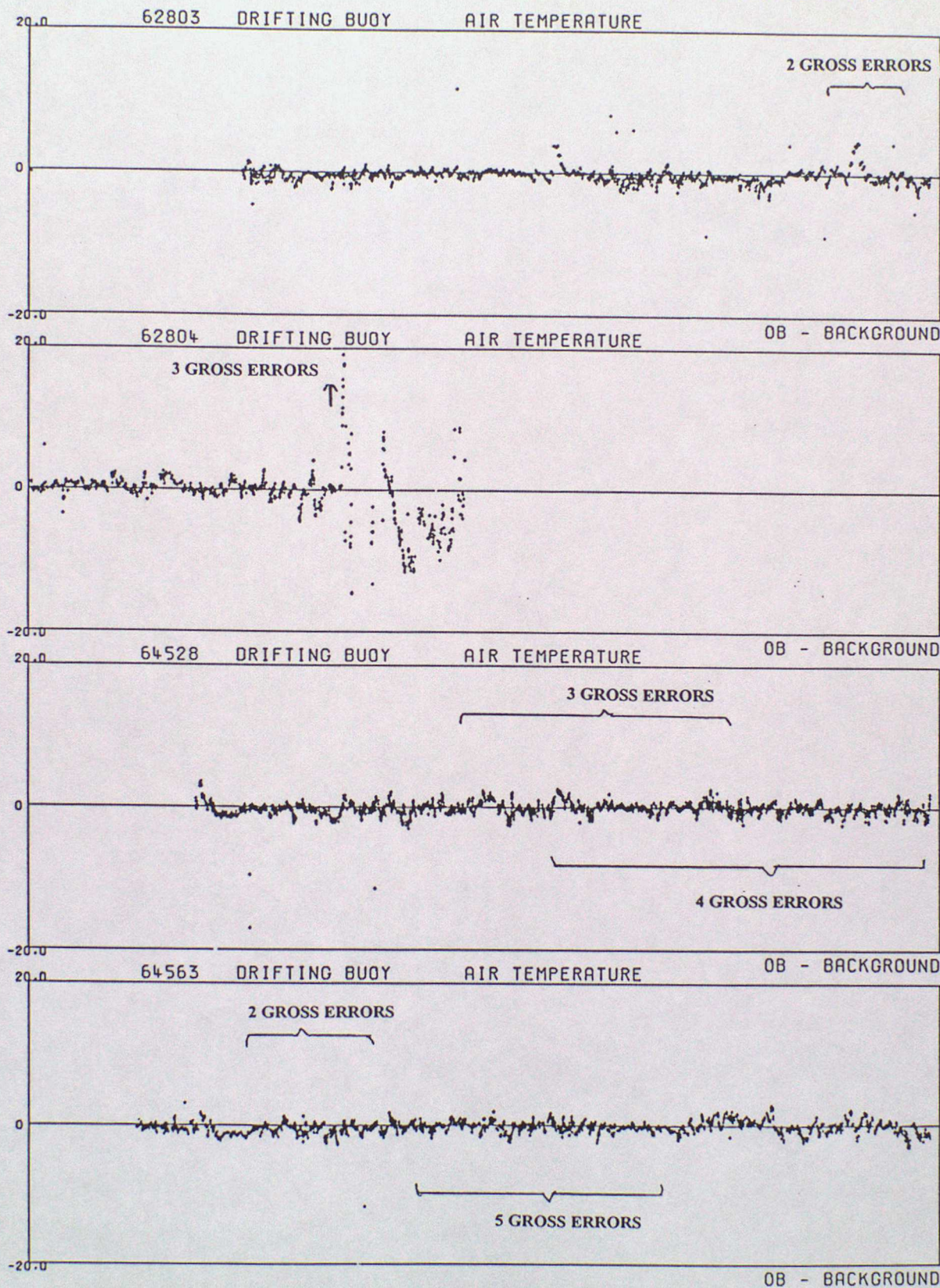
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



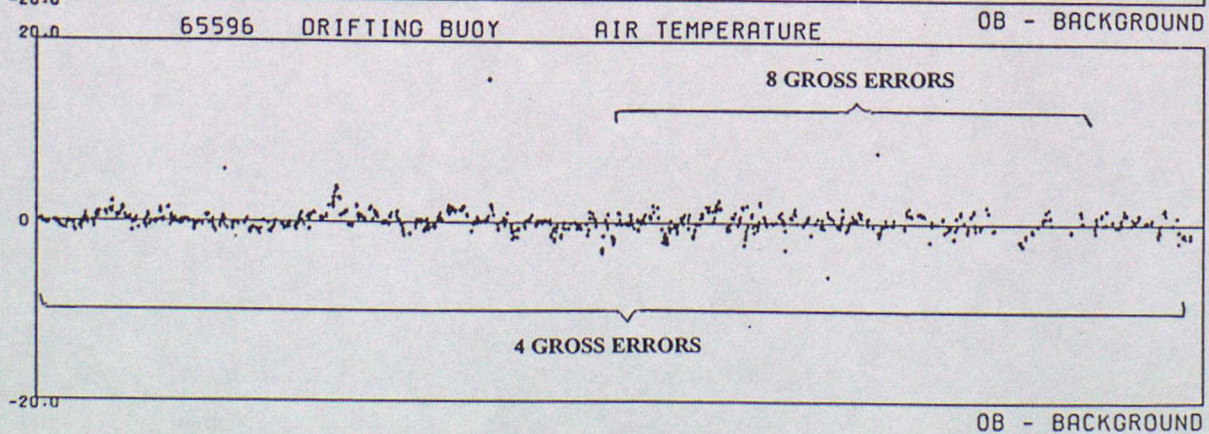
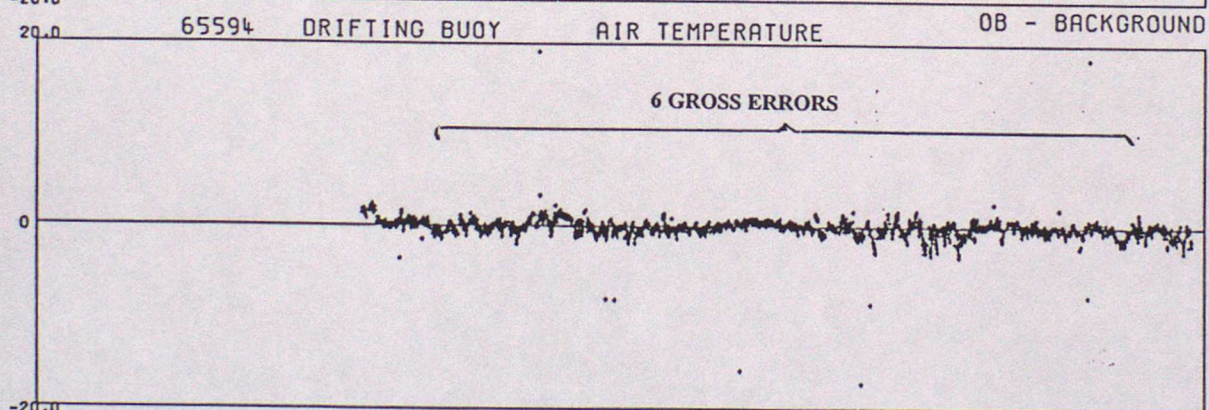
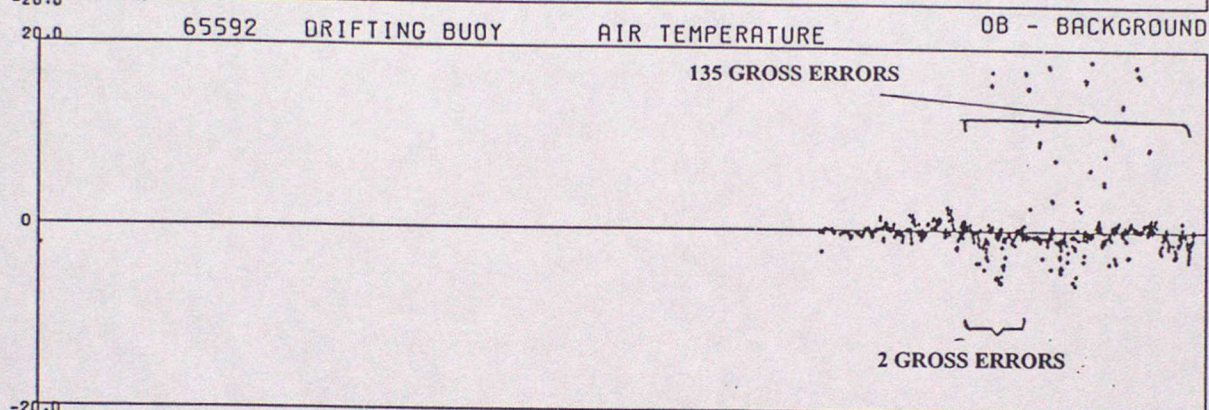
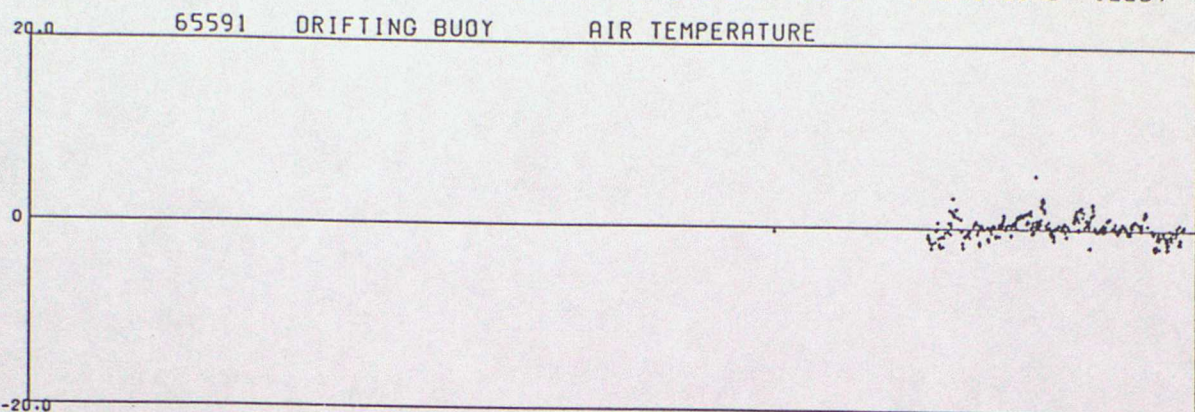
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)

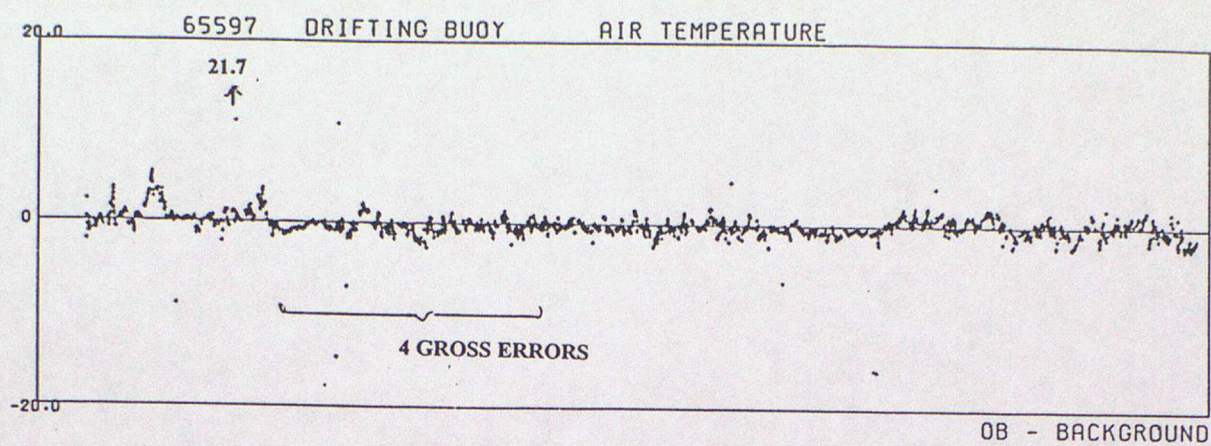


DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



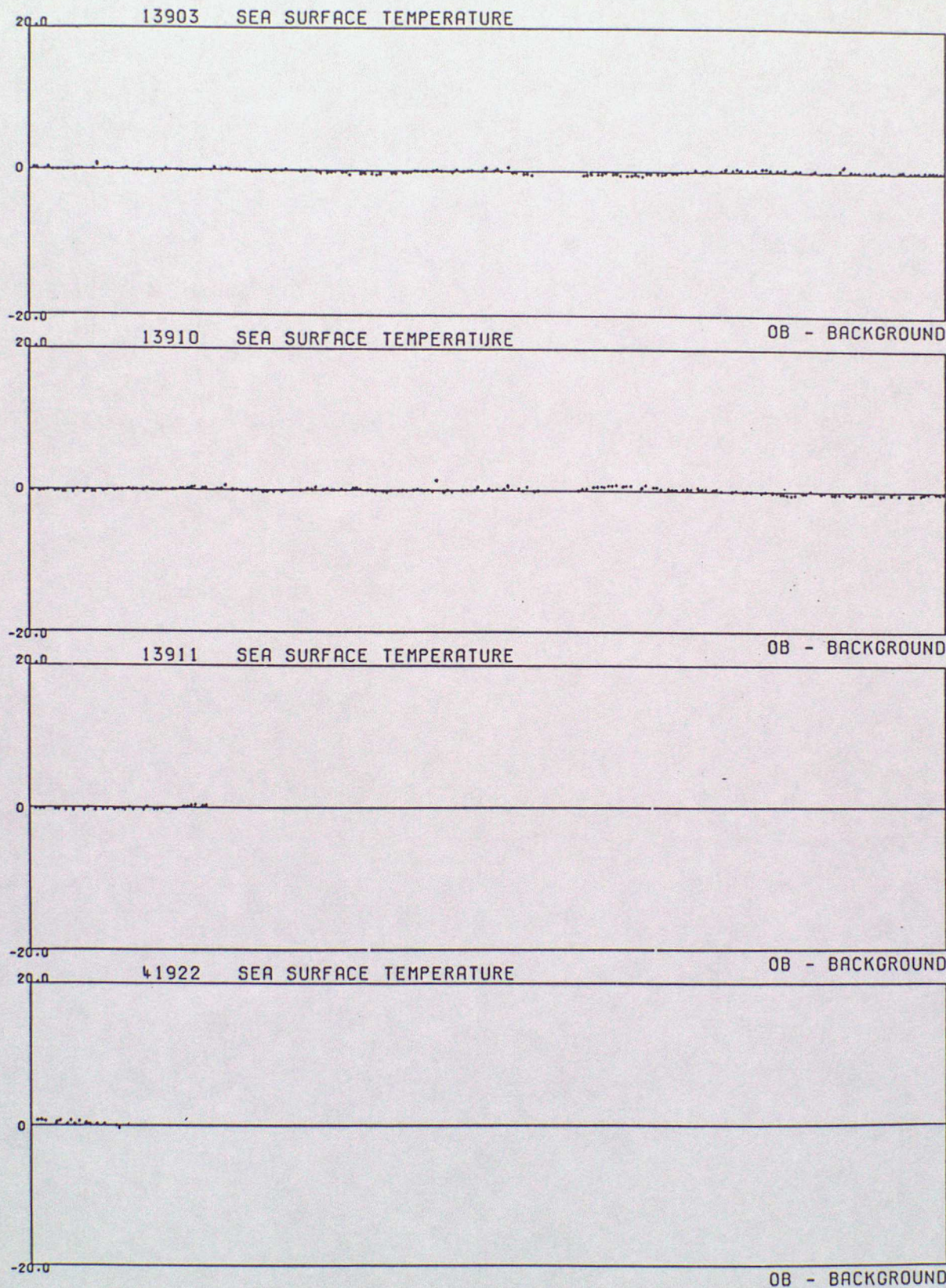
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



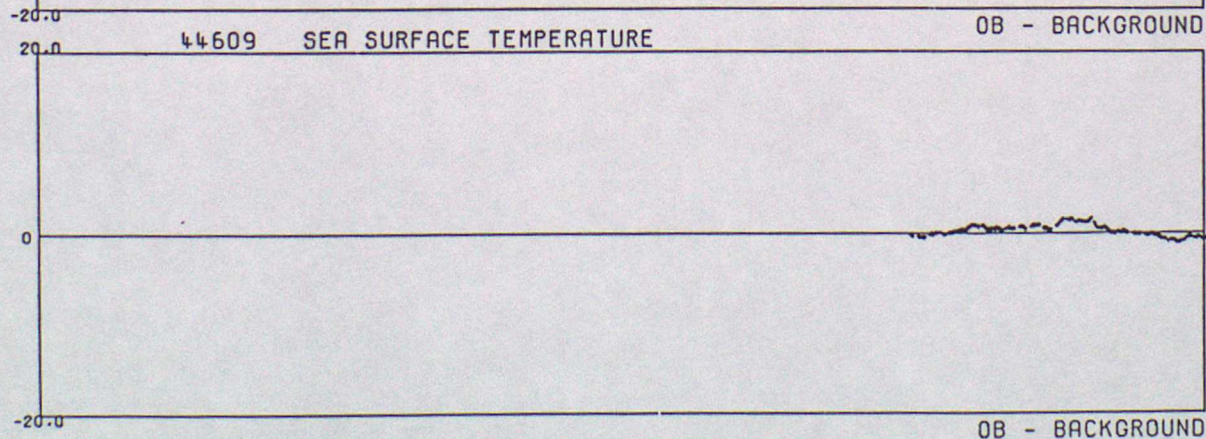
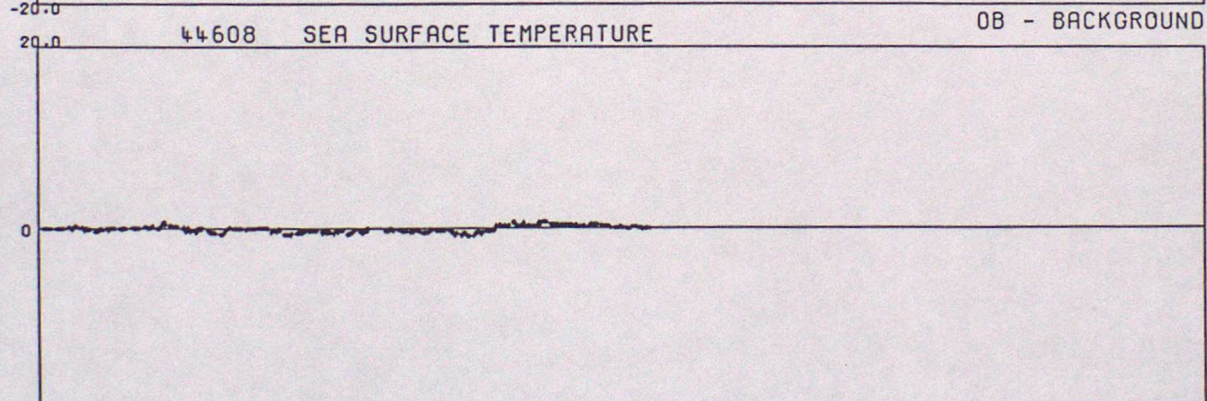
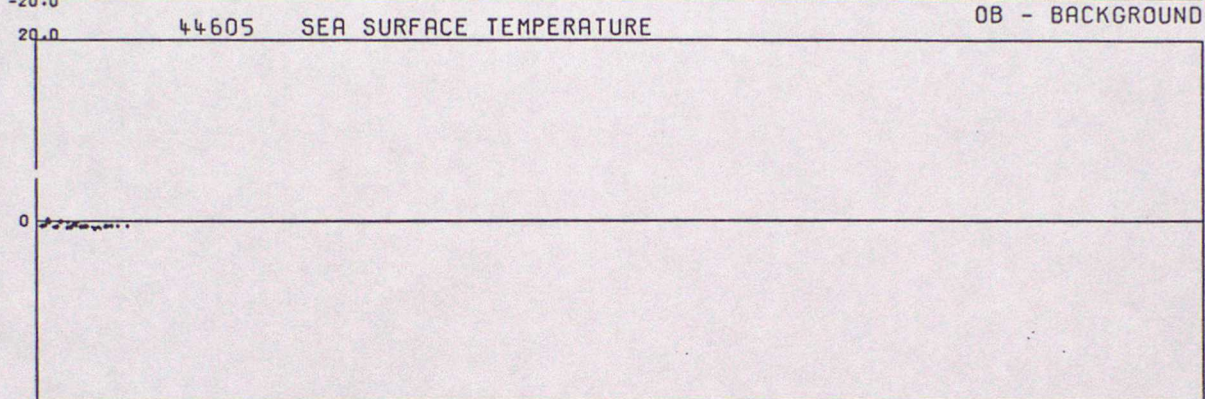
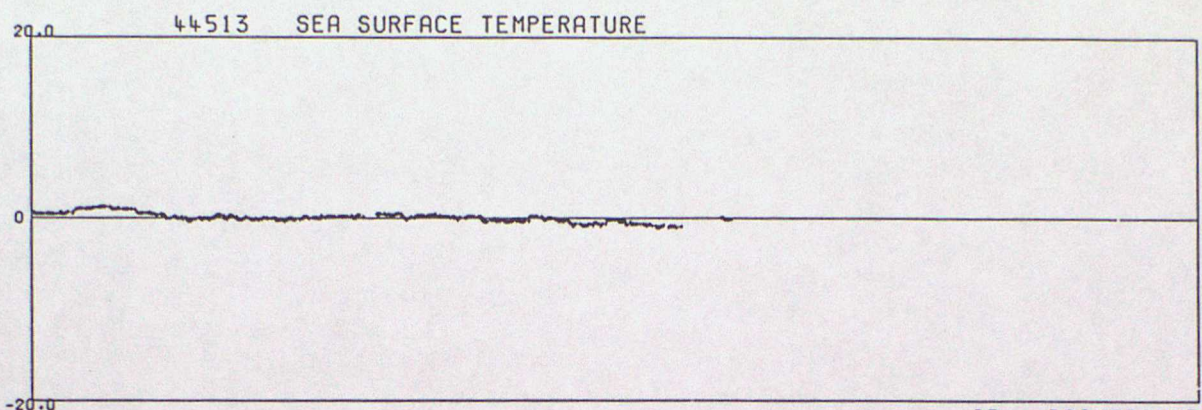


ANNEX D - TIME SERIES PLOTS OF SEA SURFACE TEMPERATURE

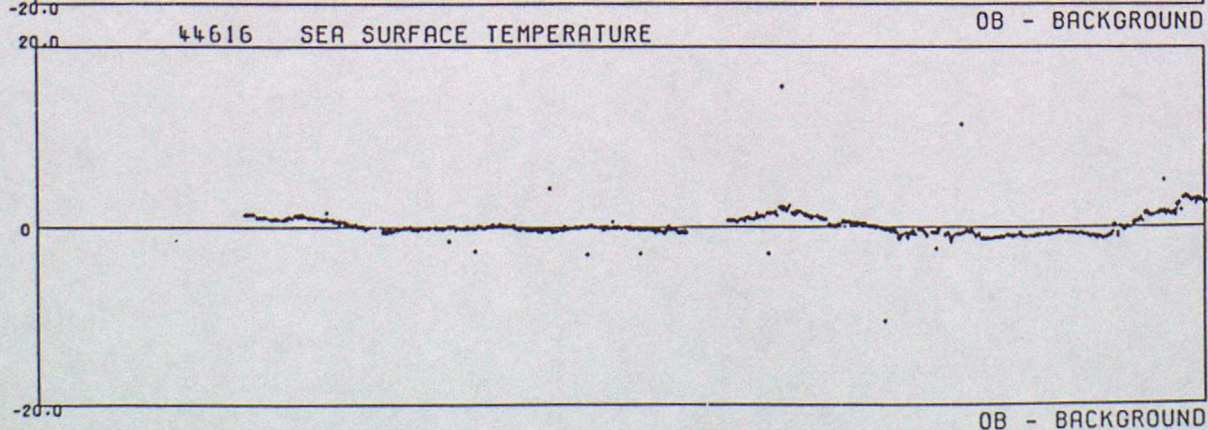
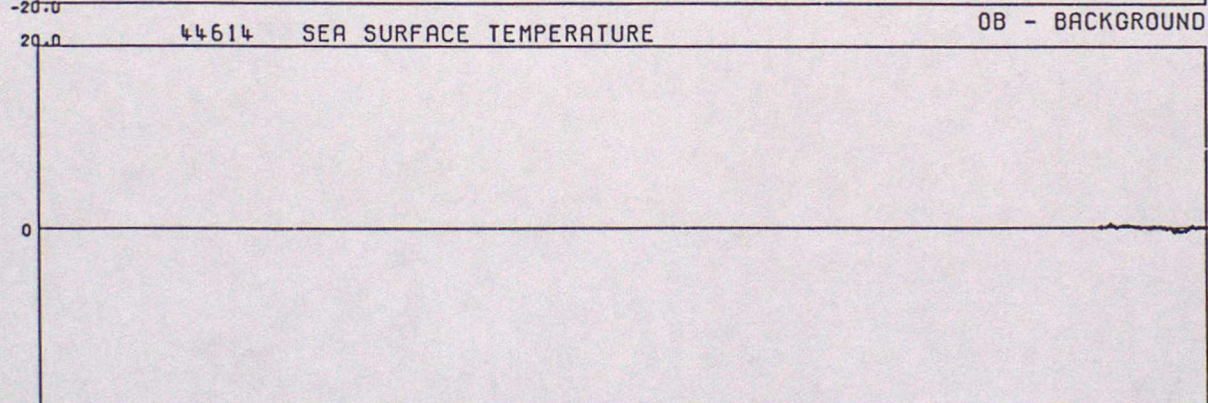
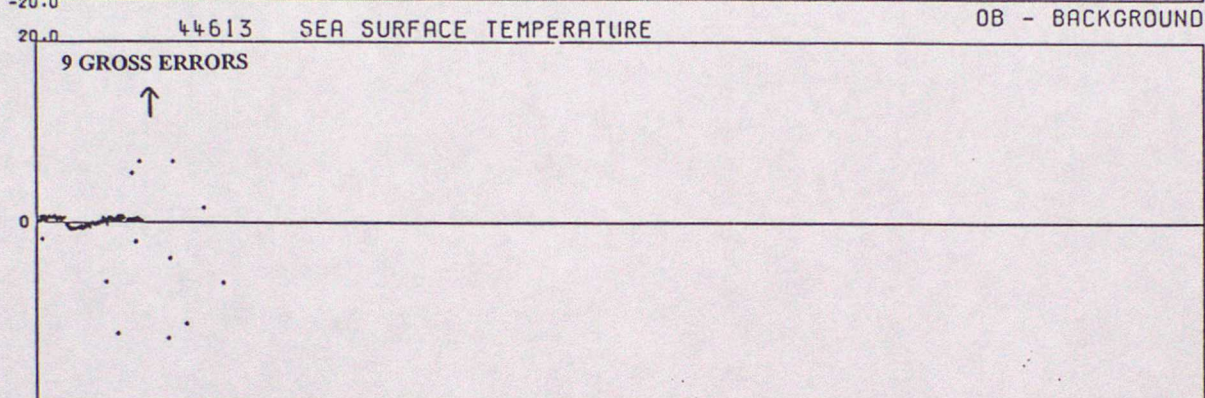
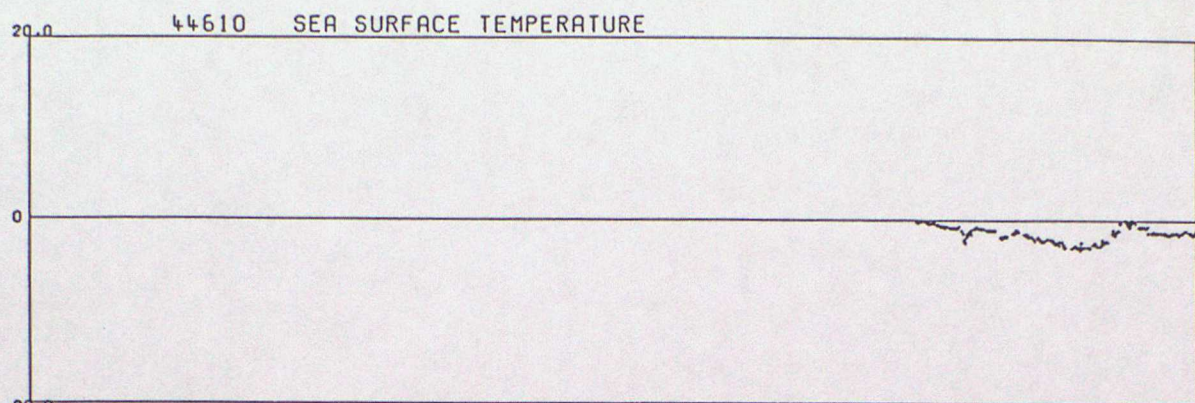
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



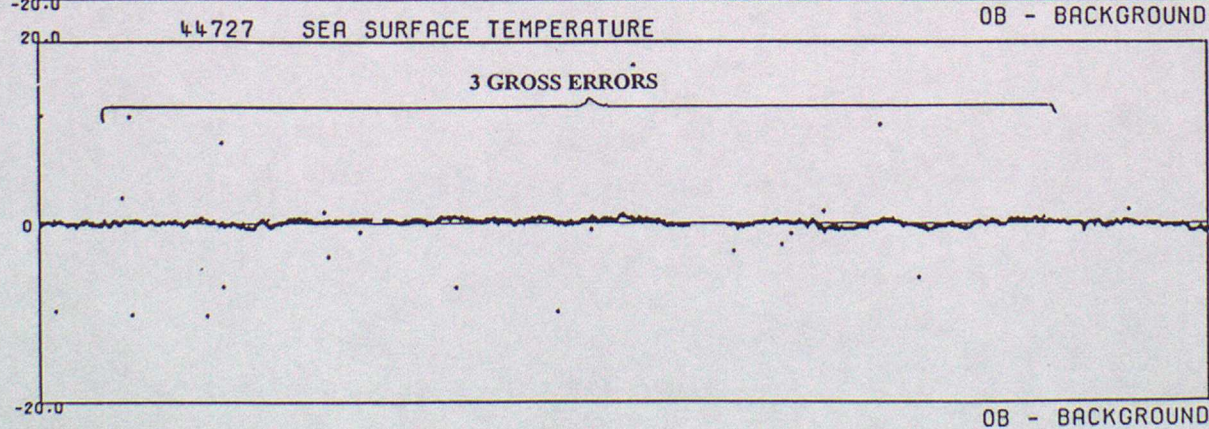
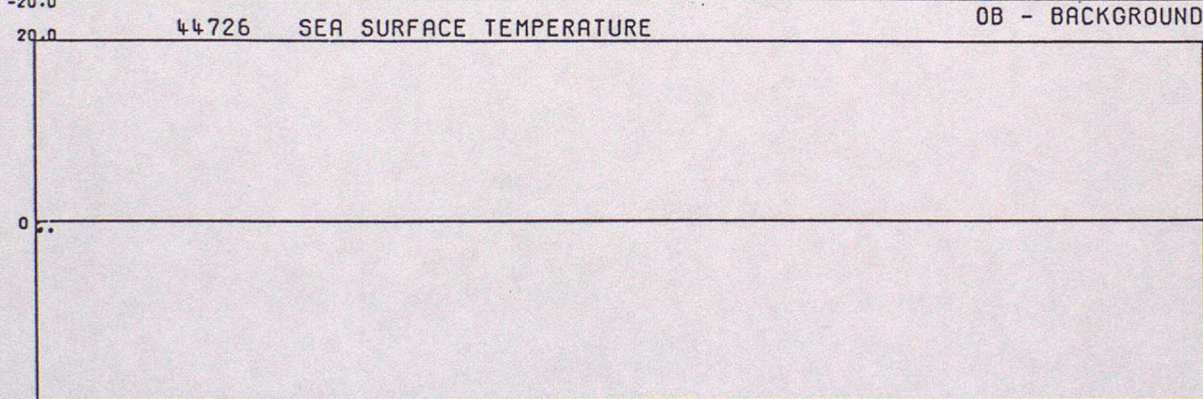
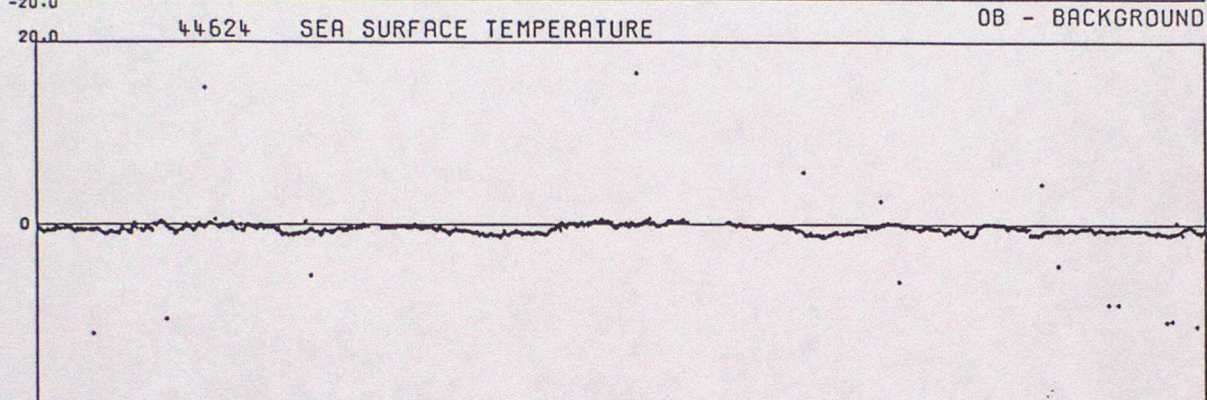
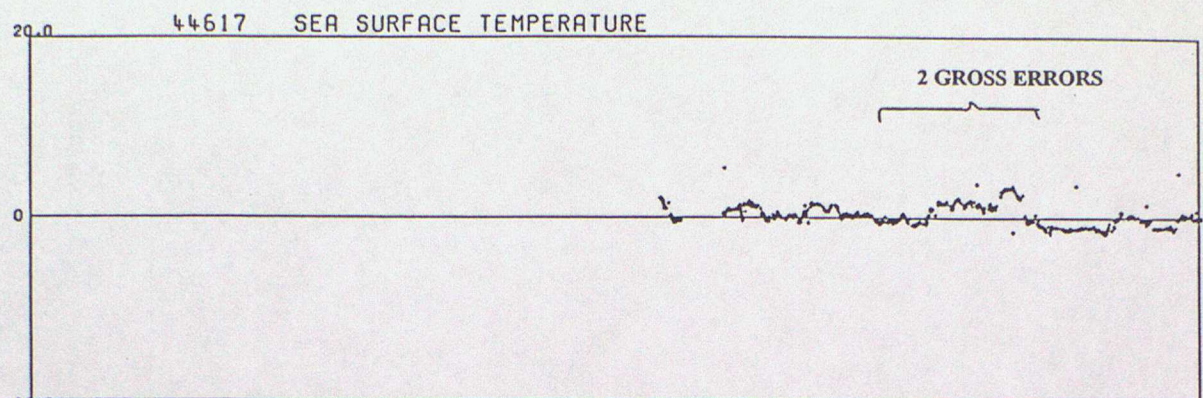
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



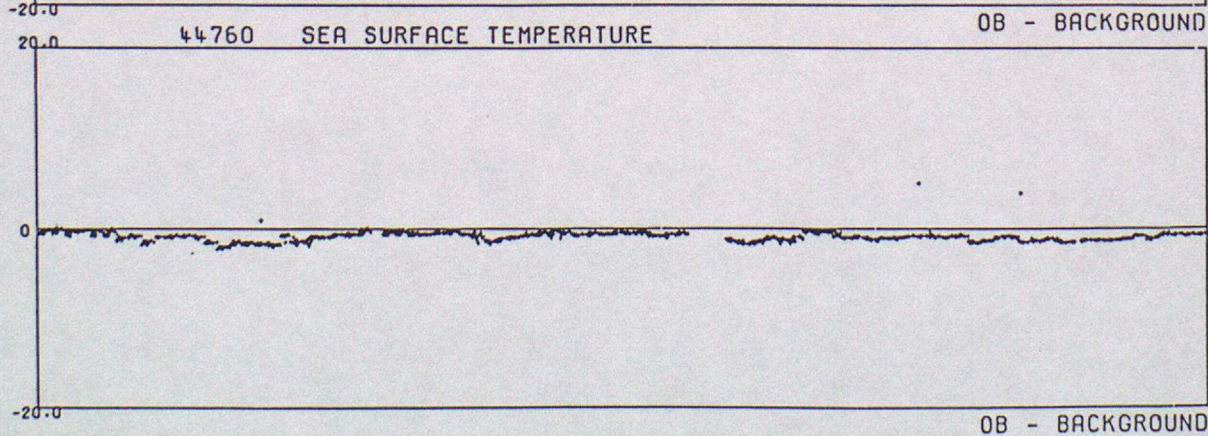
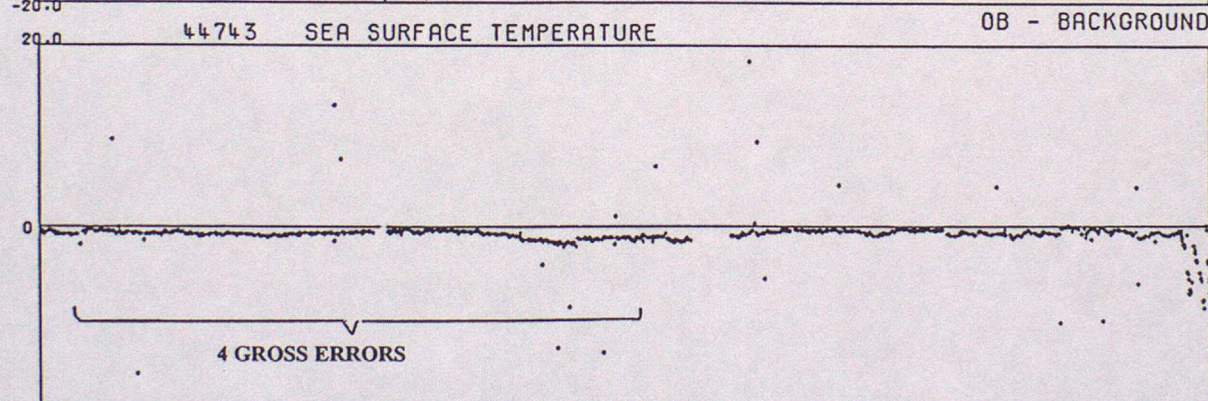
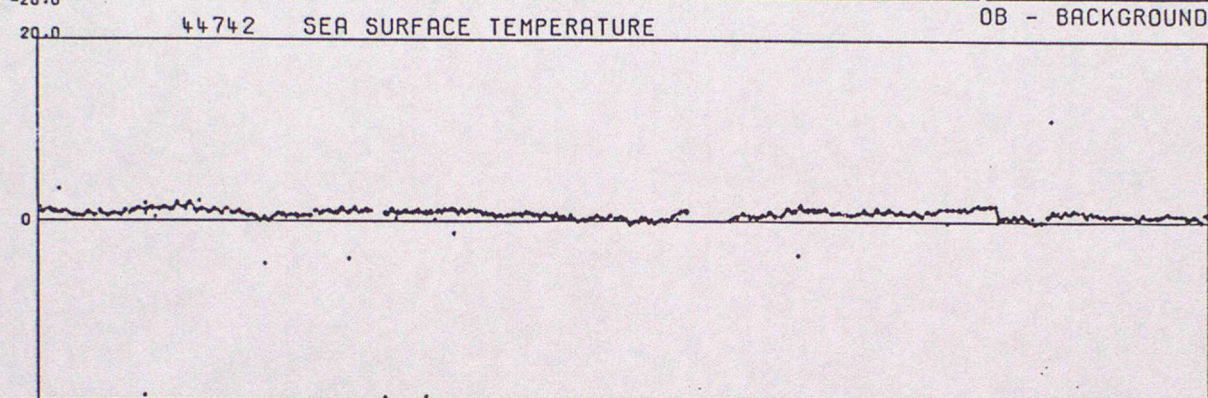
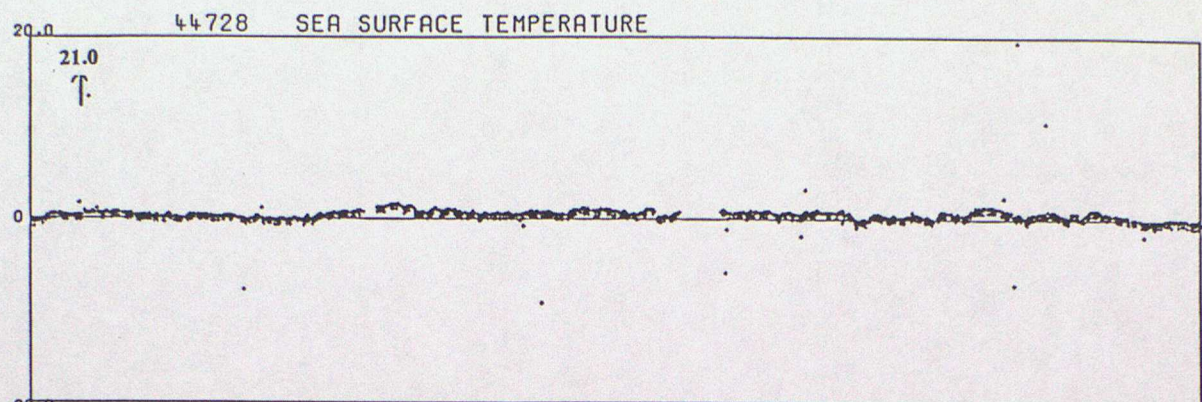
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



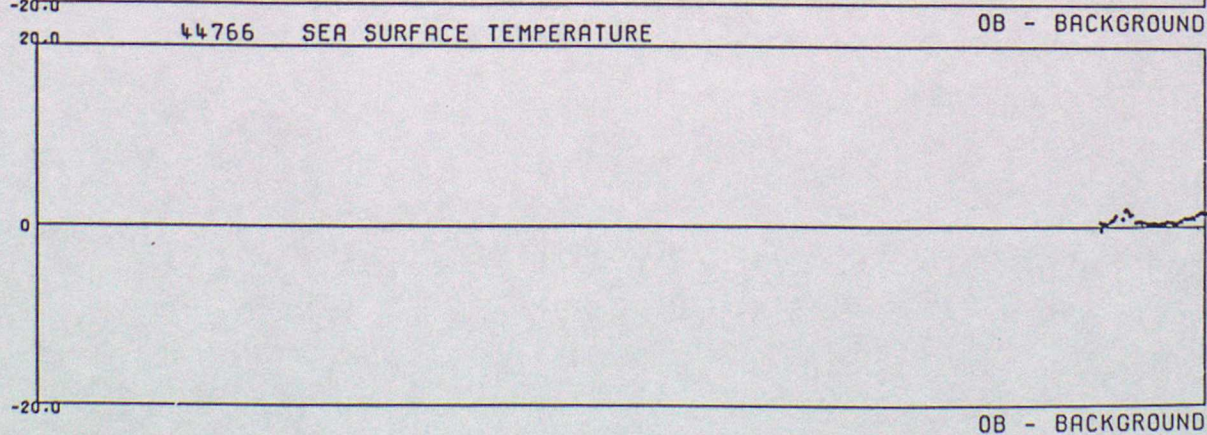
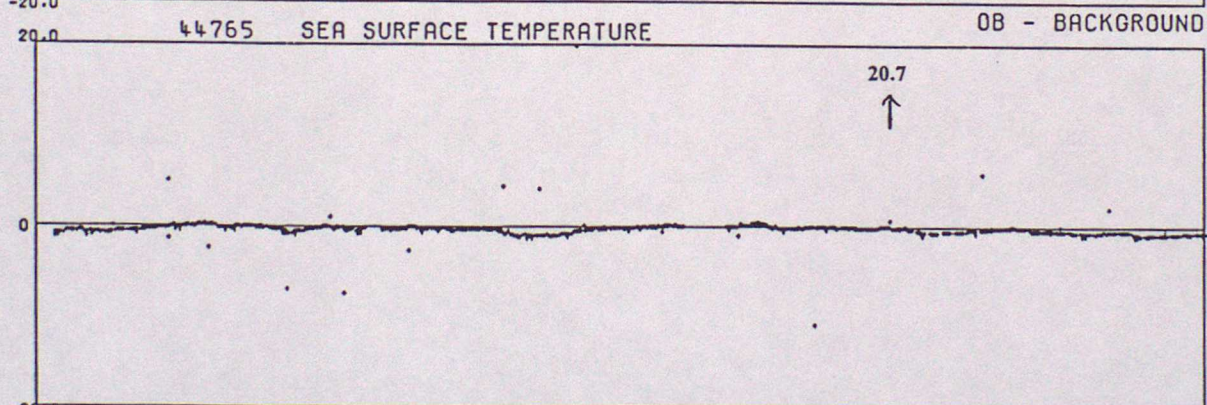
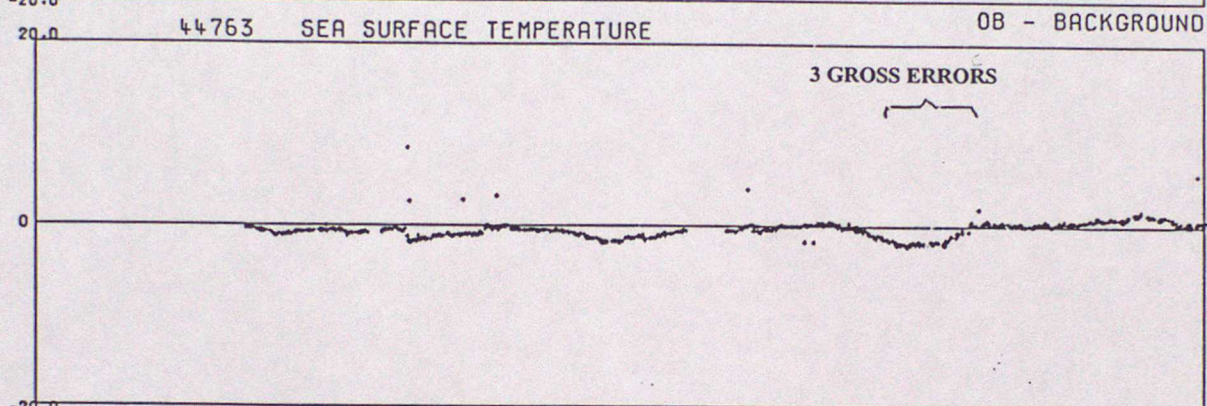
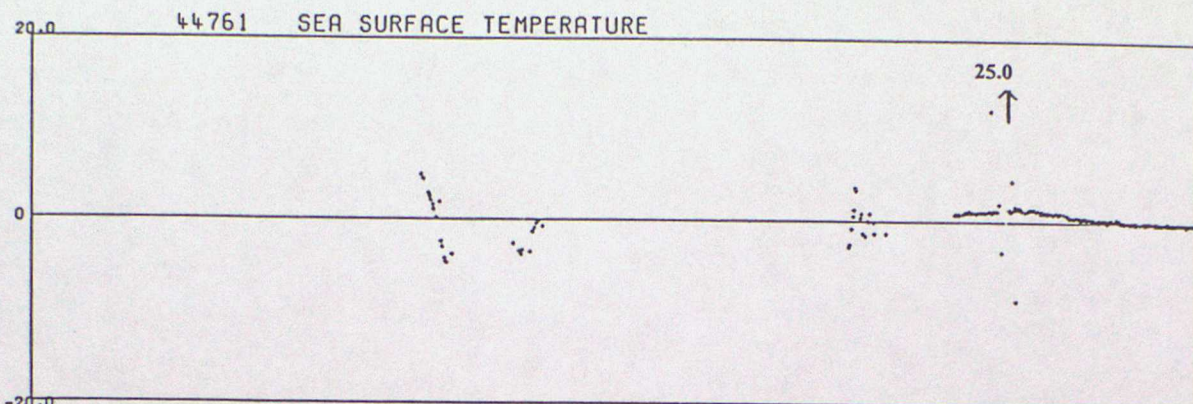
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



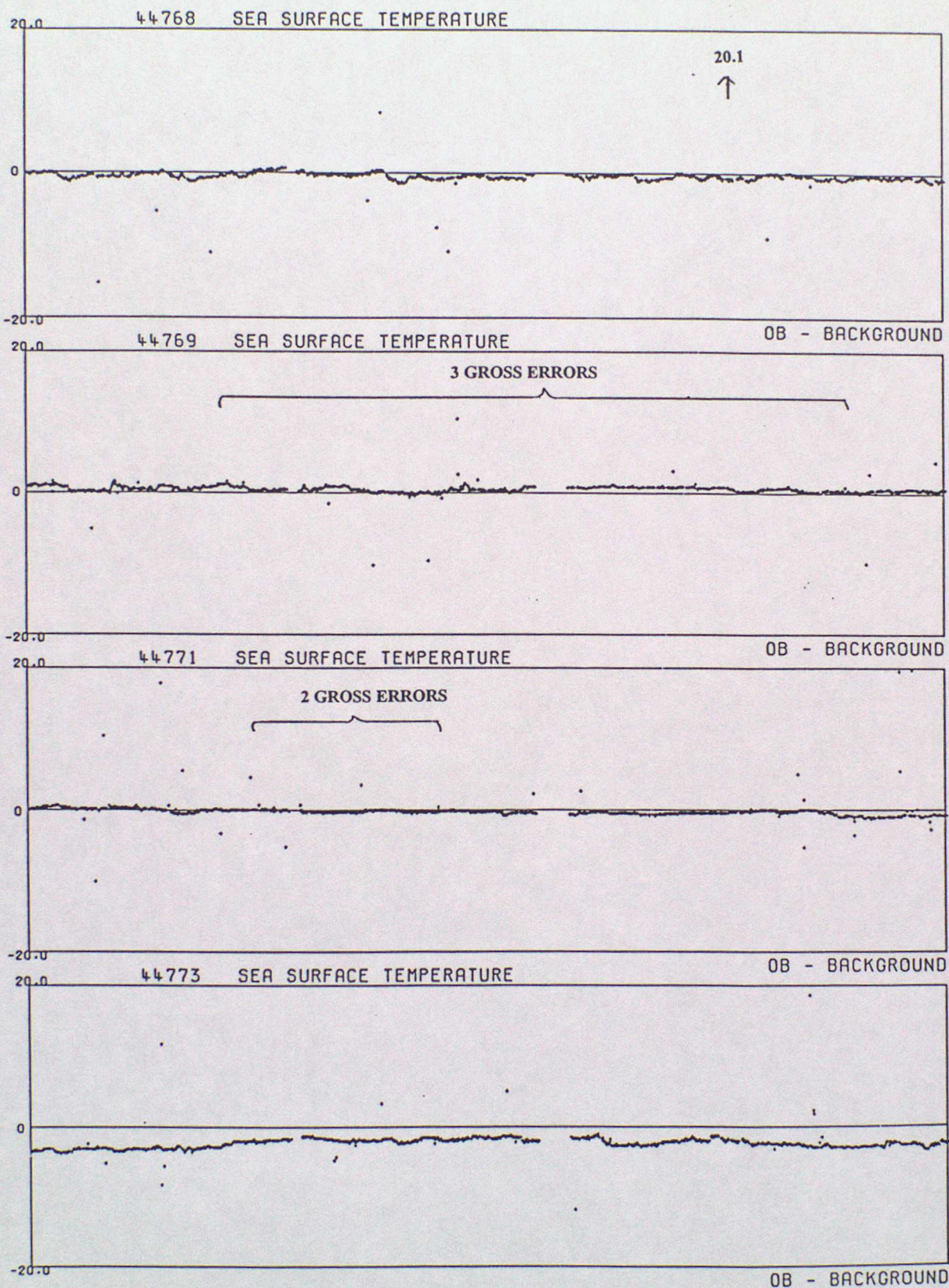
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



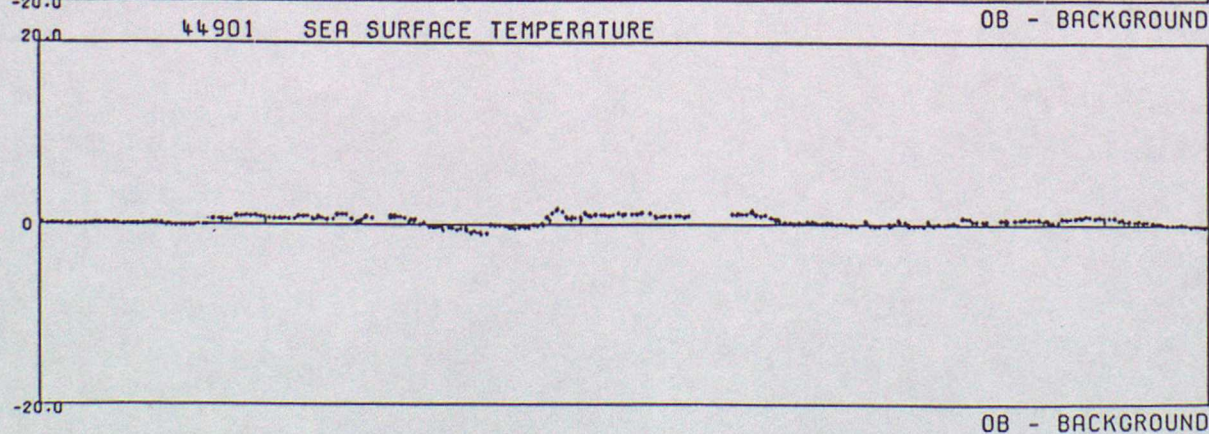
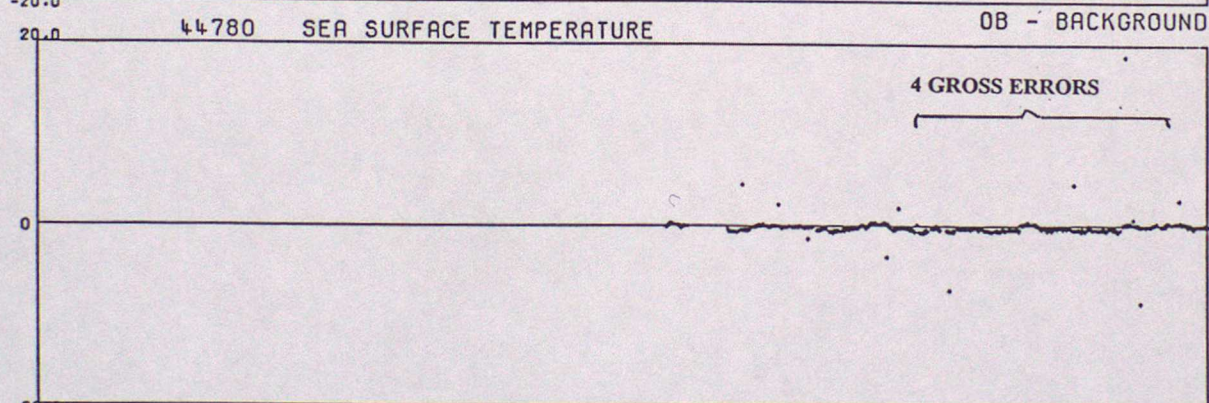
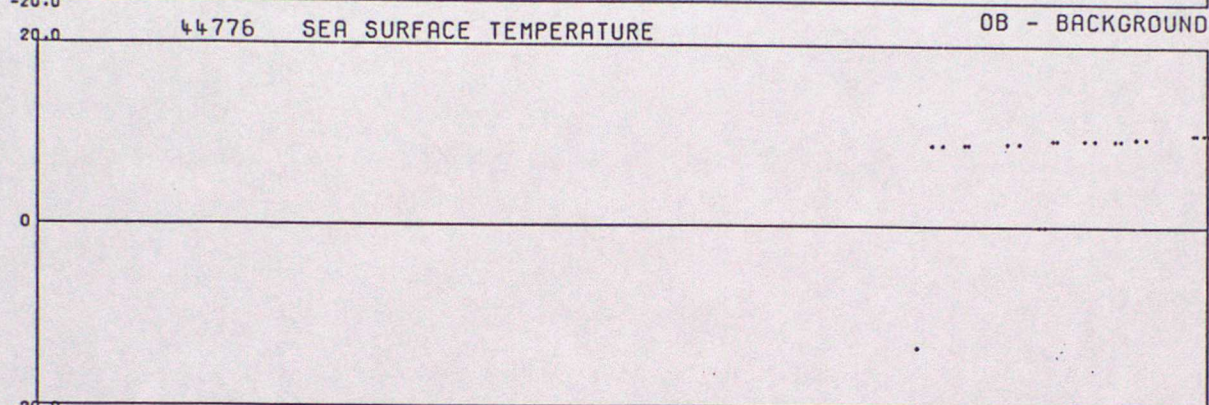
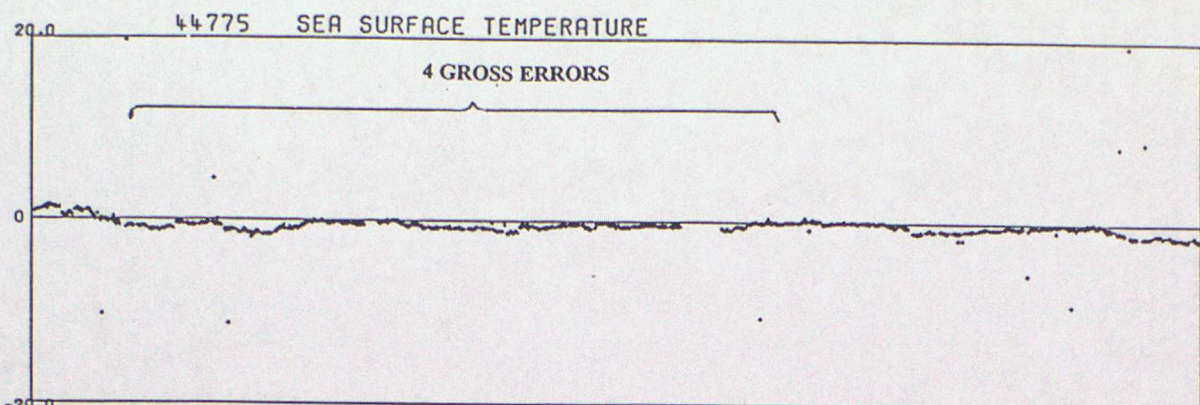
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



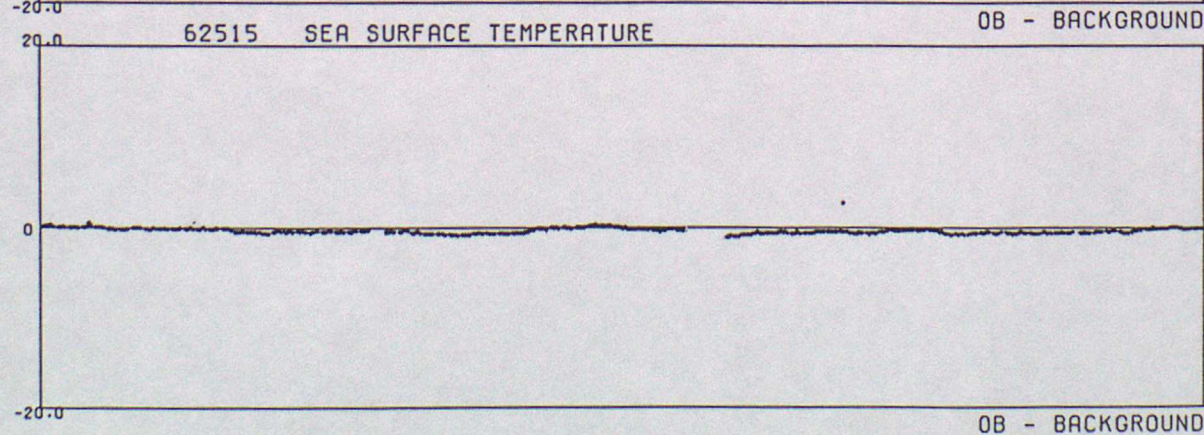
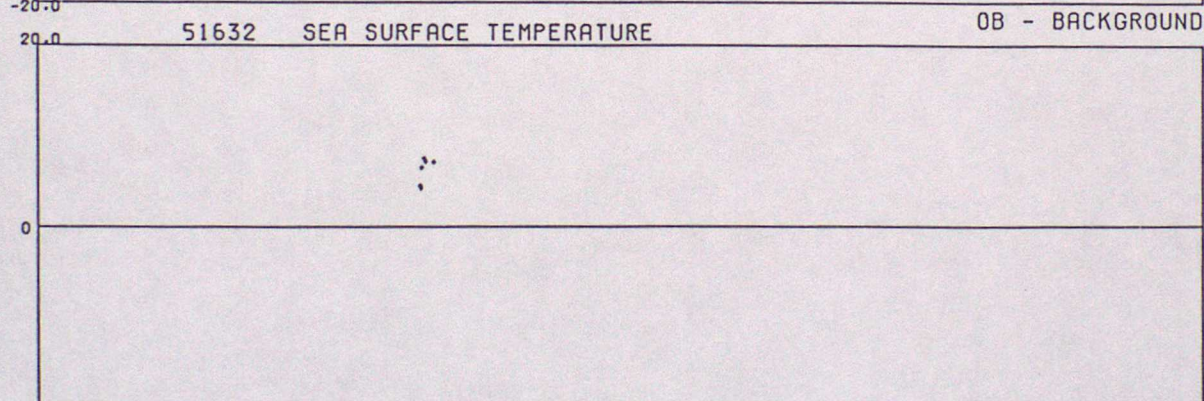
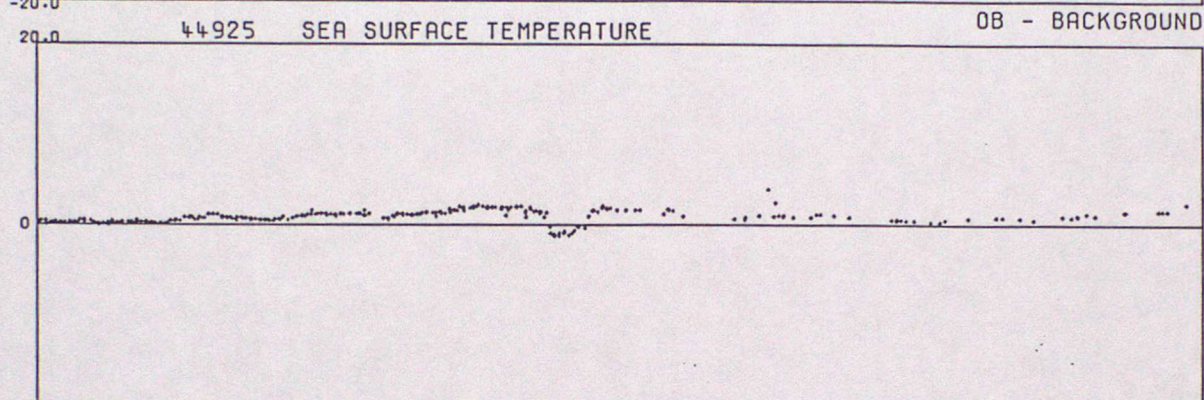
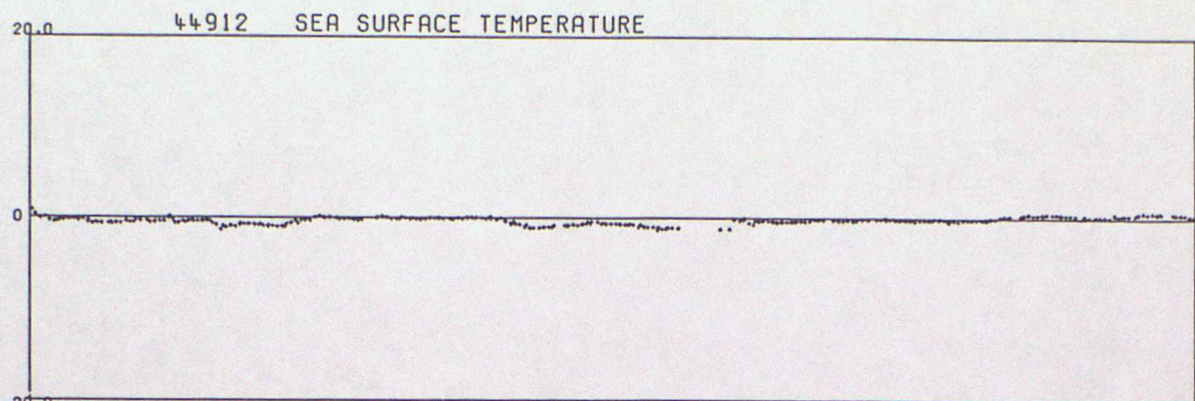
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



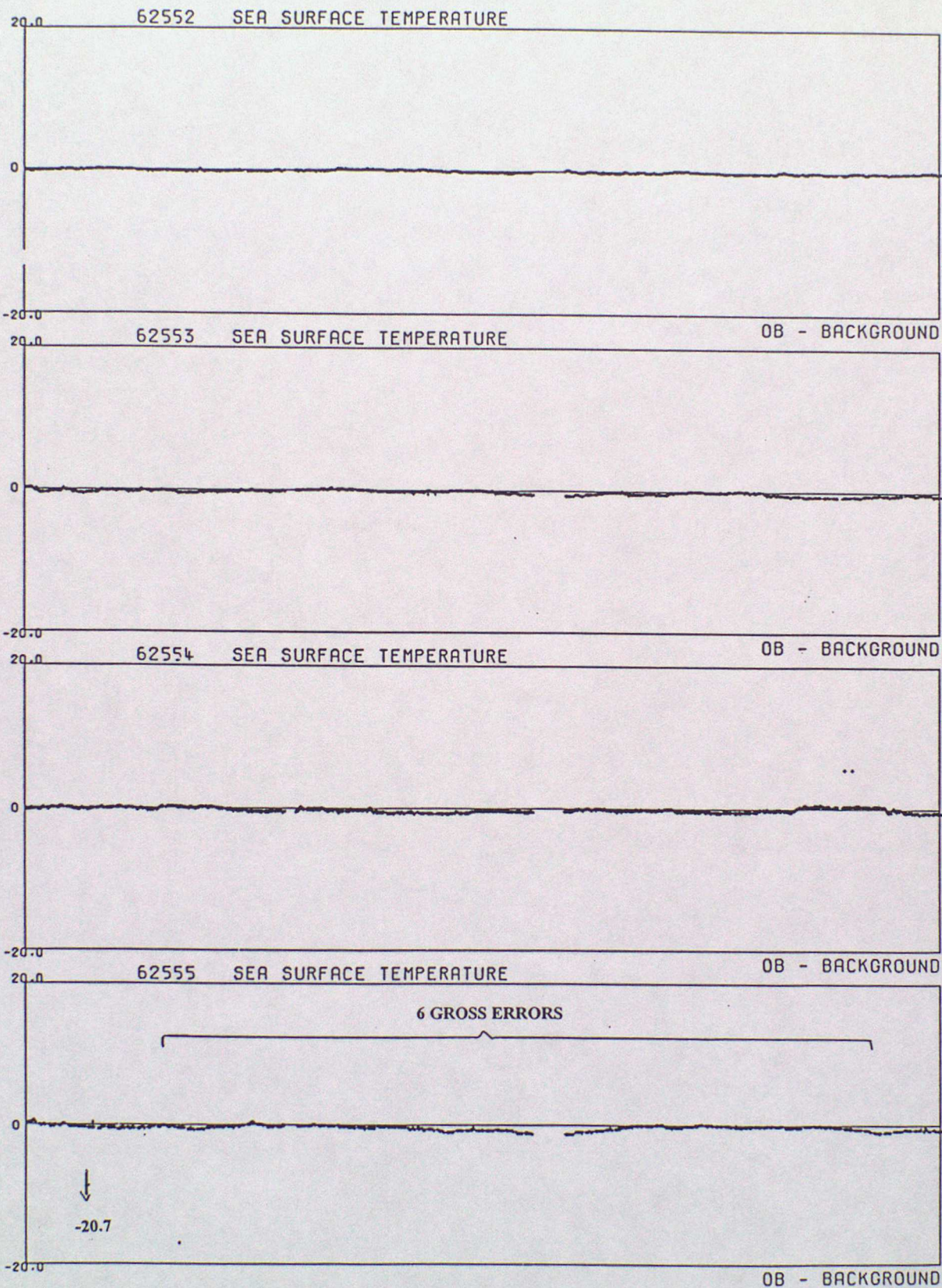
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



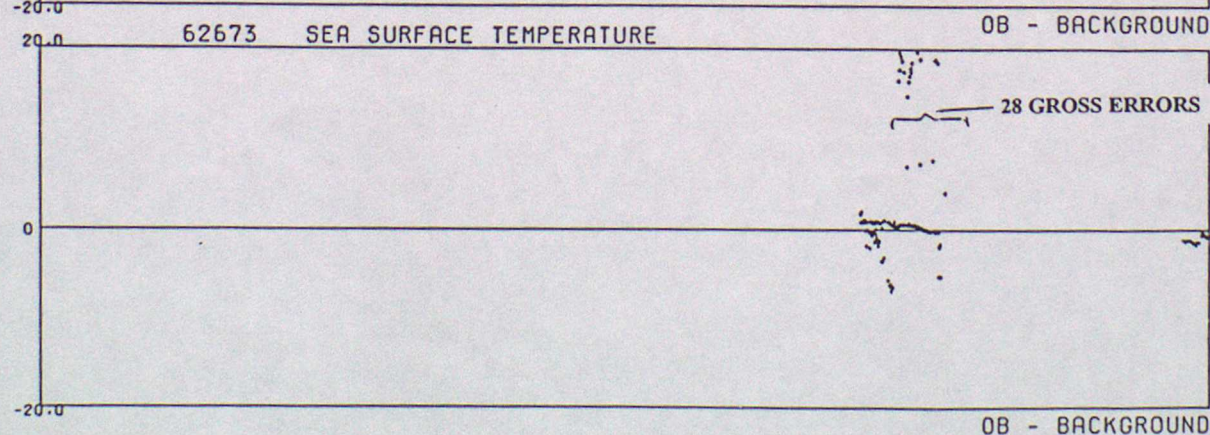
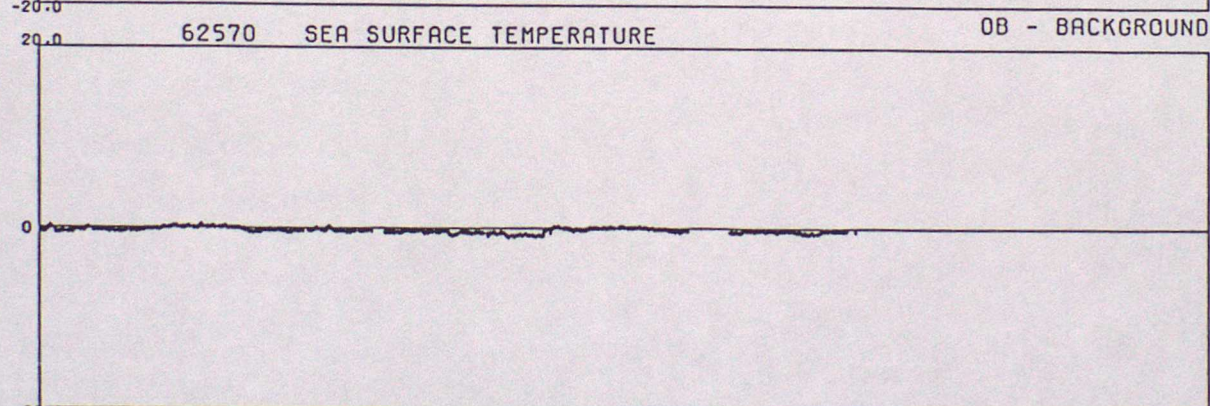
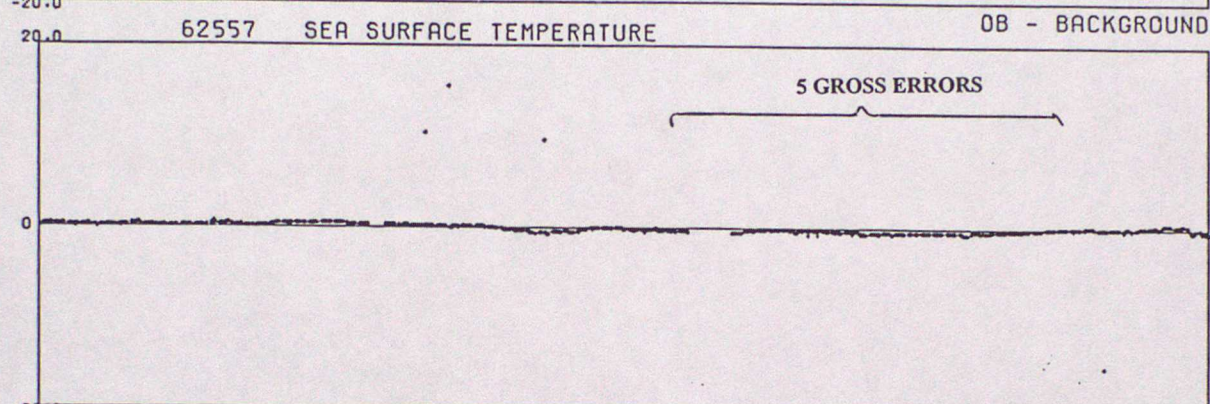
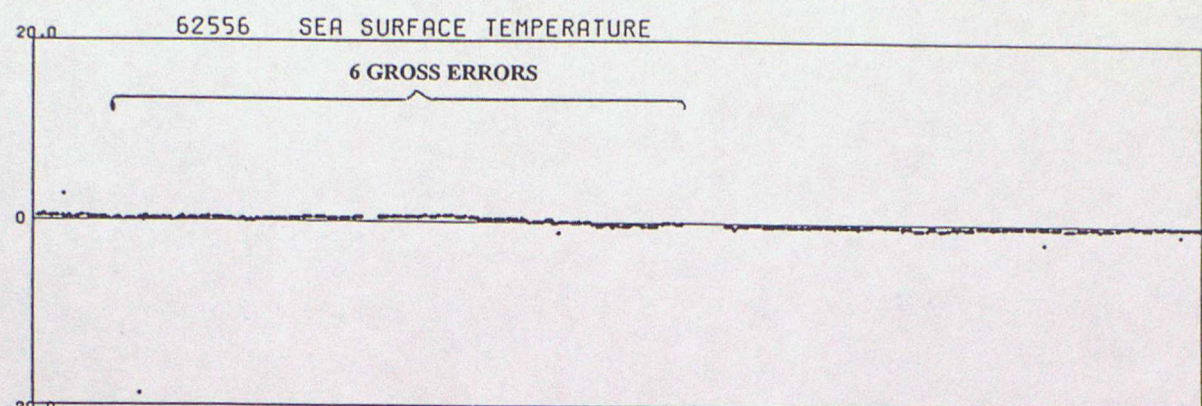
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



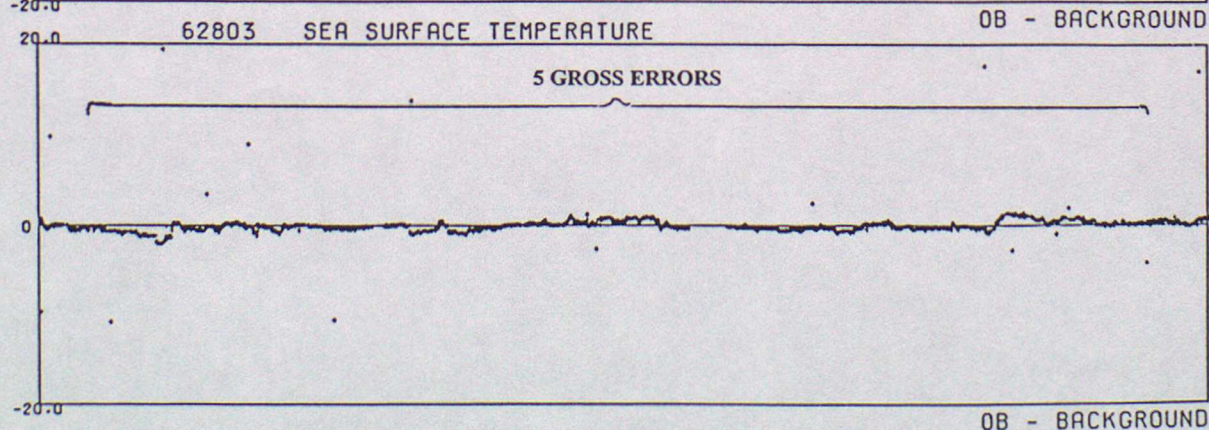
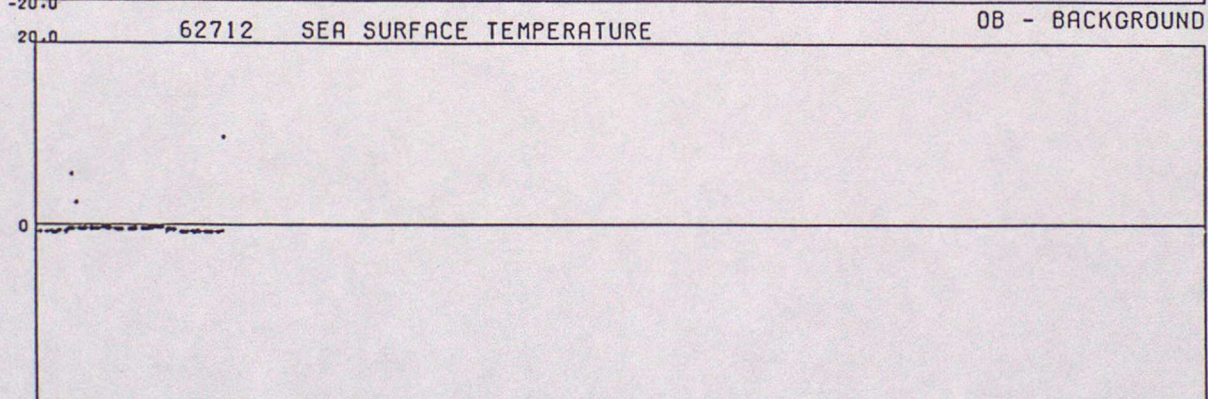
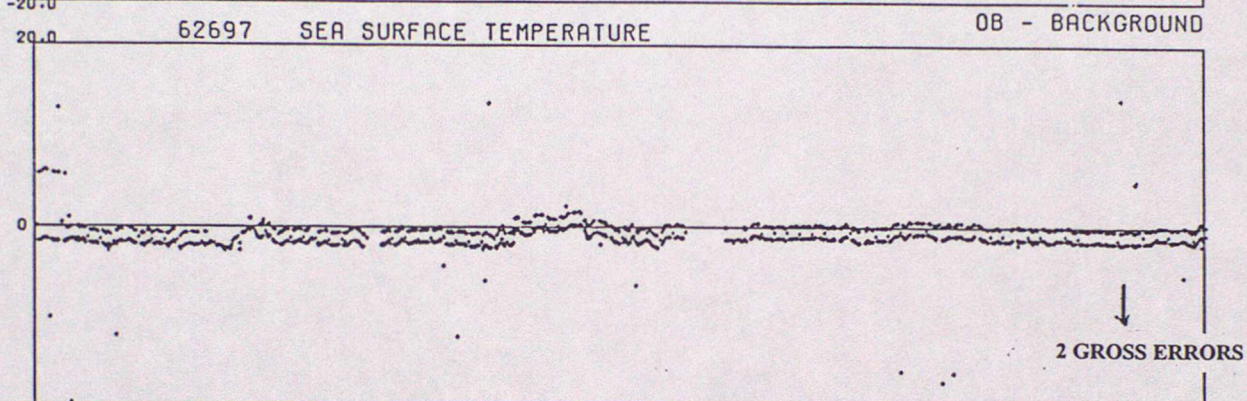
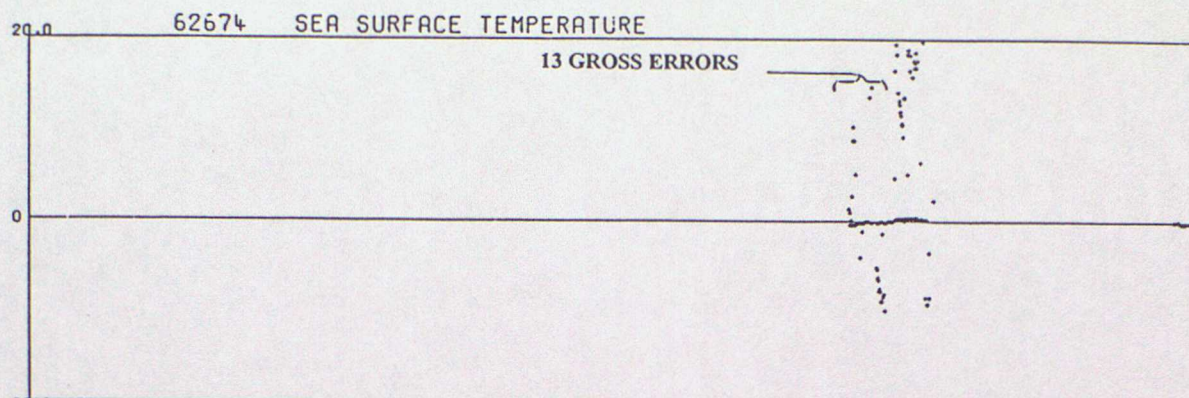
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



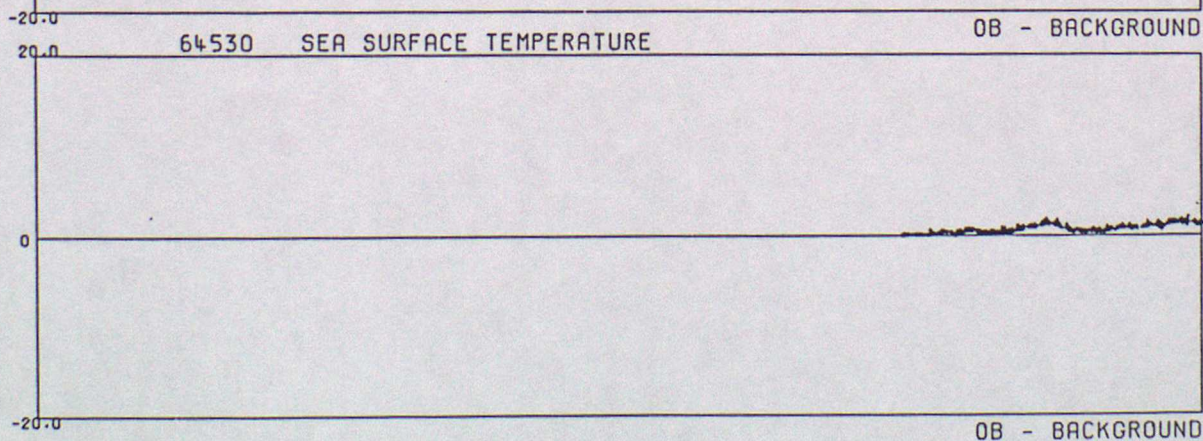
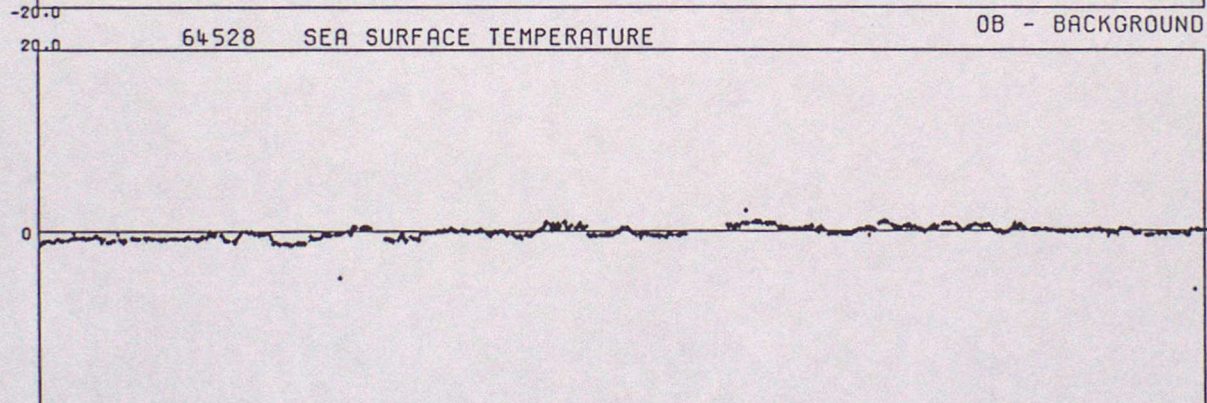
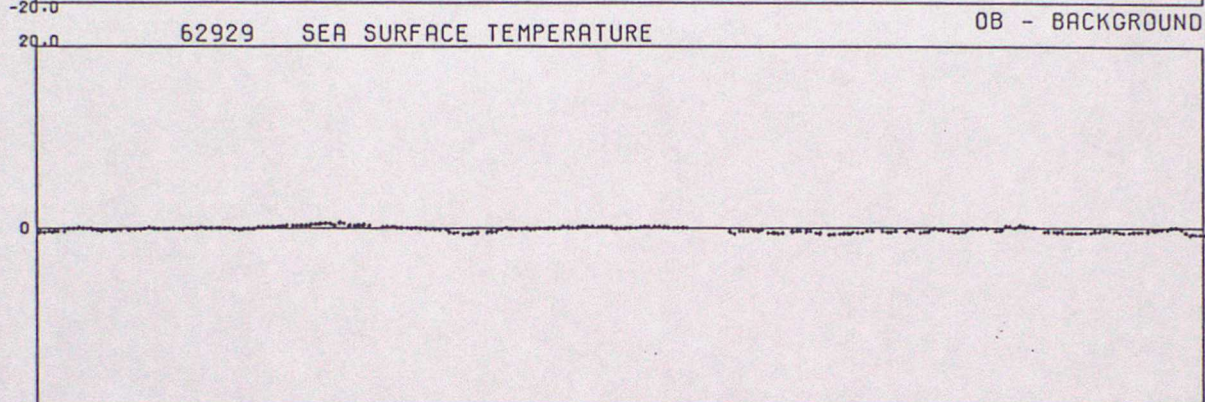
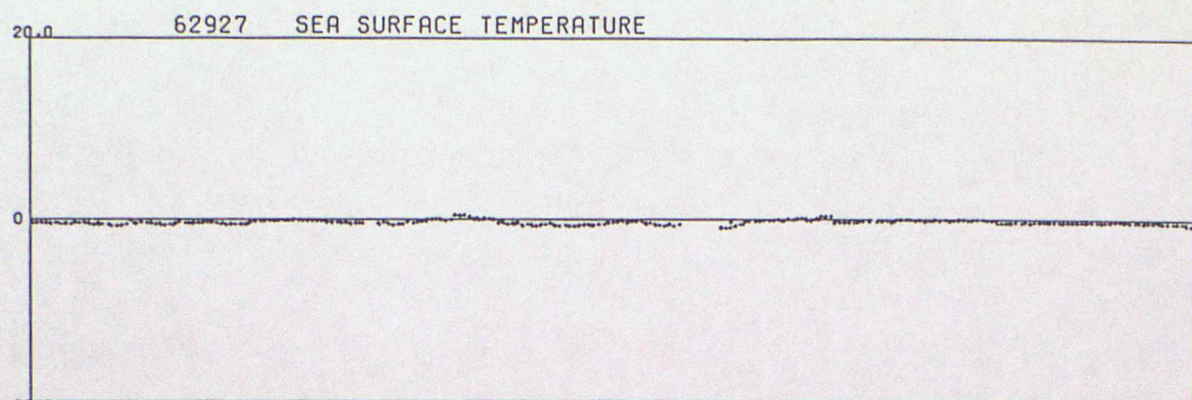
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)

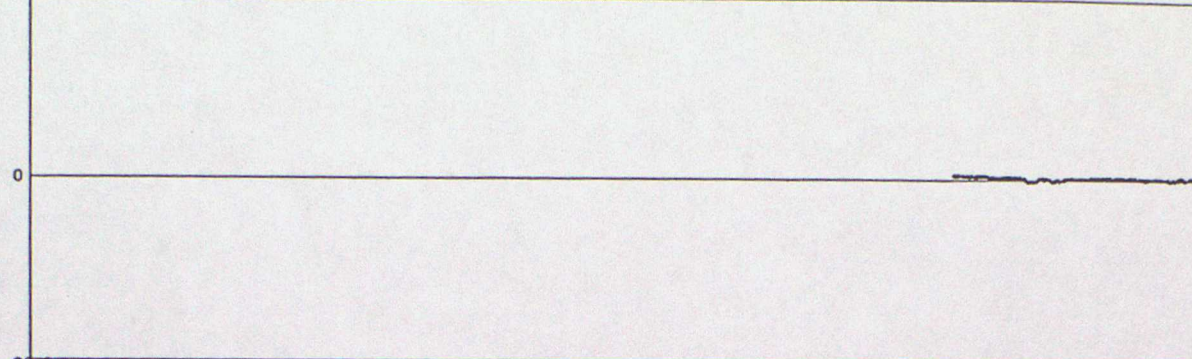


DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



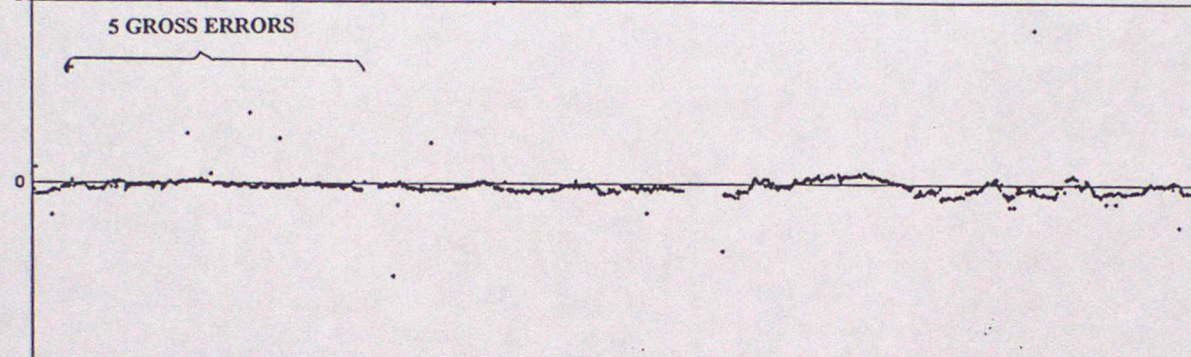
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)

20.0 64552 SEA SURFACE TEMPERATURE



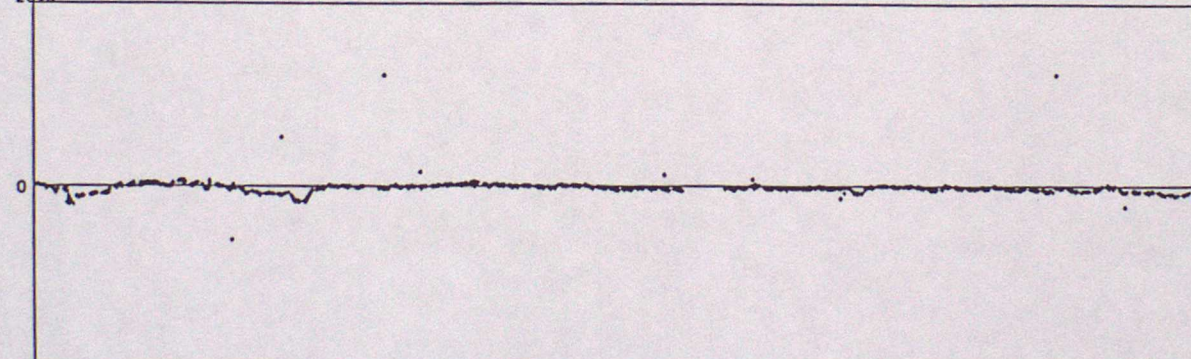
20.0 64561 SEA SURFACE TEMPERATURE

OB - BACKGROUND



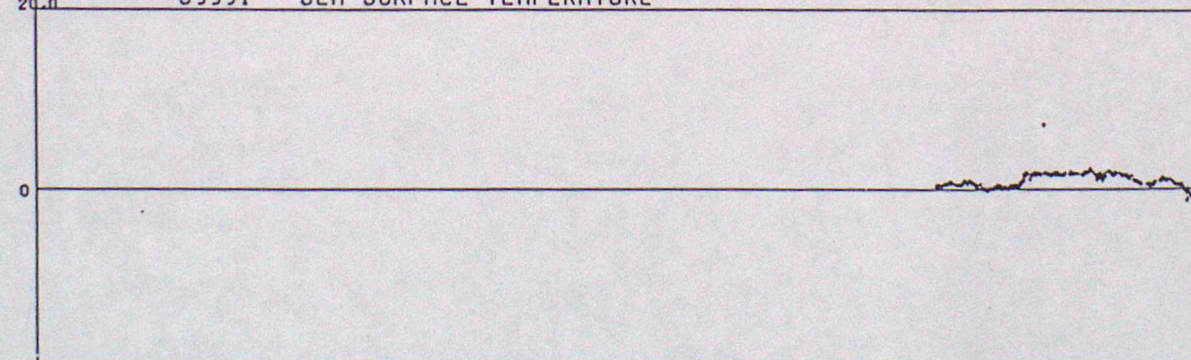
20.0 64563 SEA SURFACE TEMPERATURE

OB - BACKGROUND



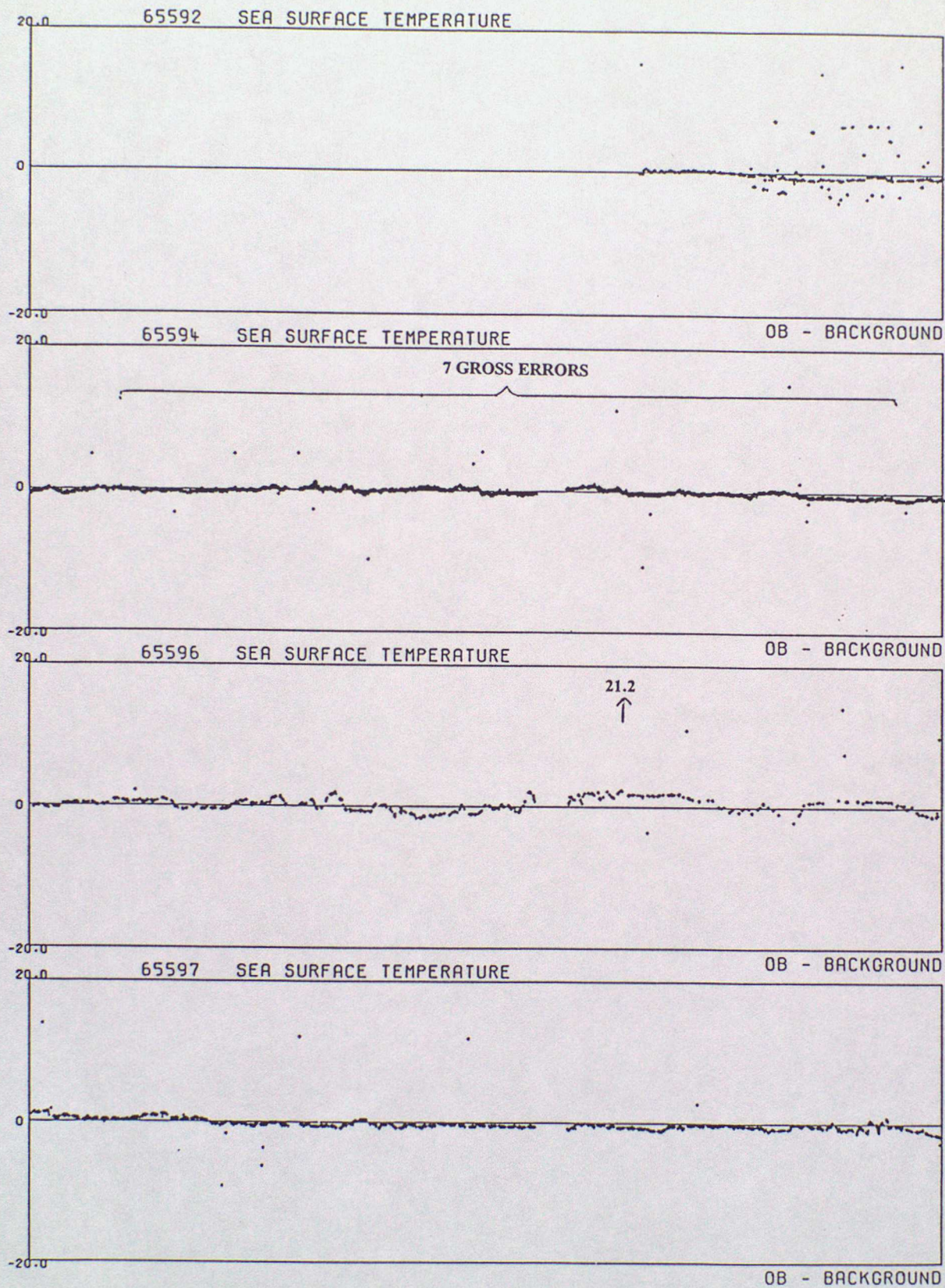
20.0 65591 SEA SURFACE TEMPERATURE

OB - BACKGROUND



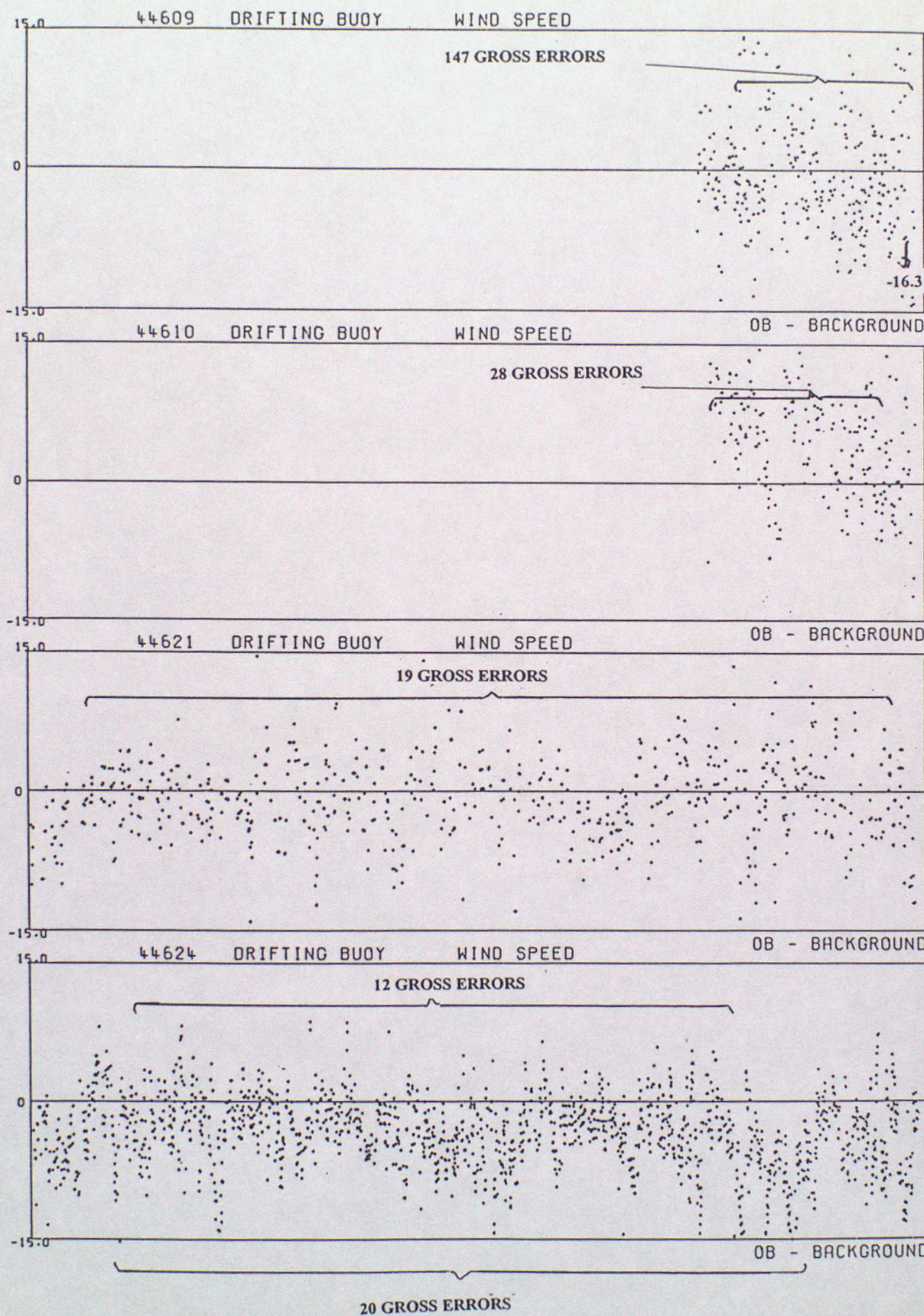
OB - BACKGROUND

DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)

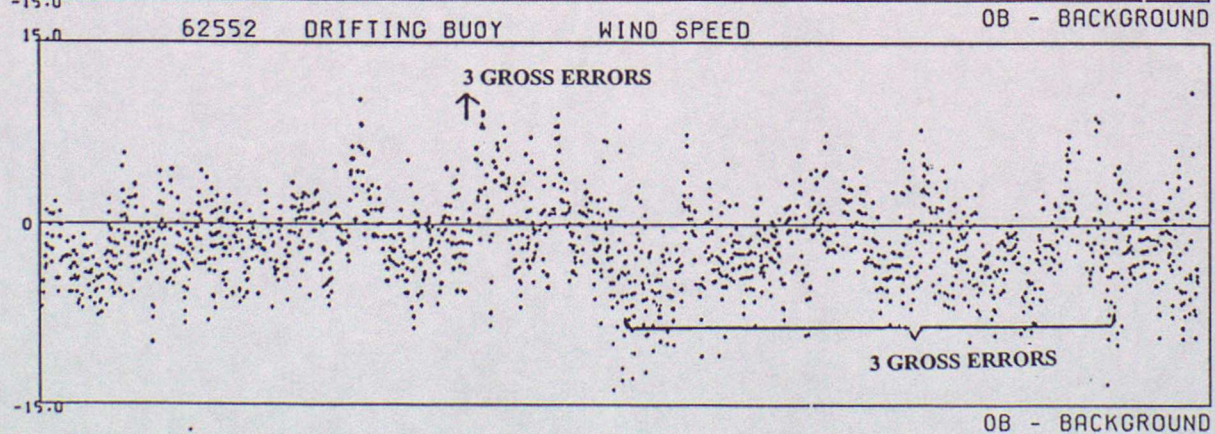
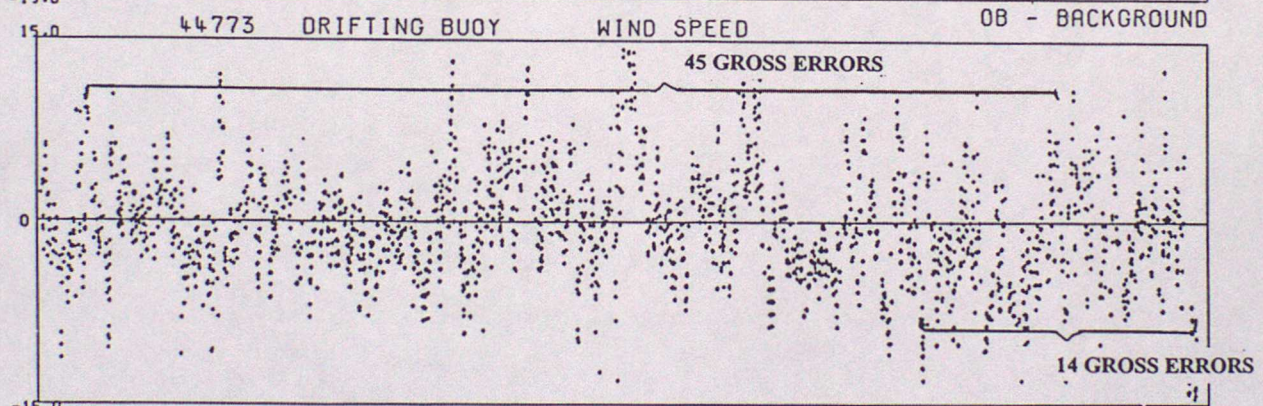
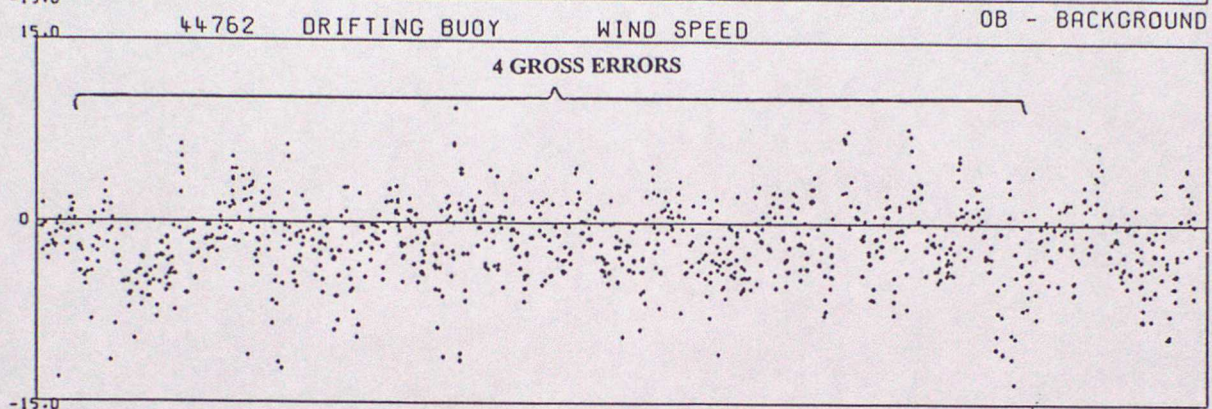
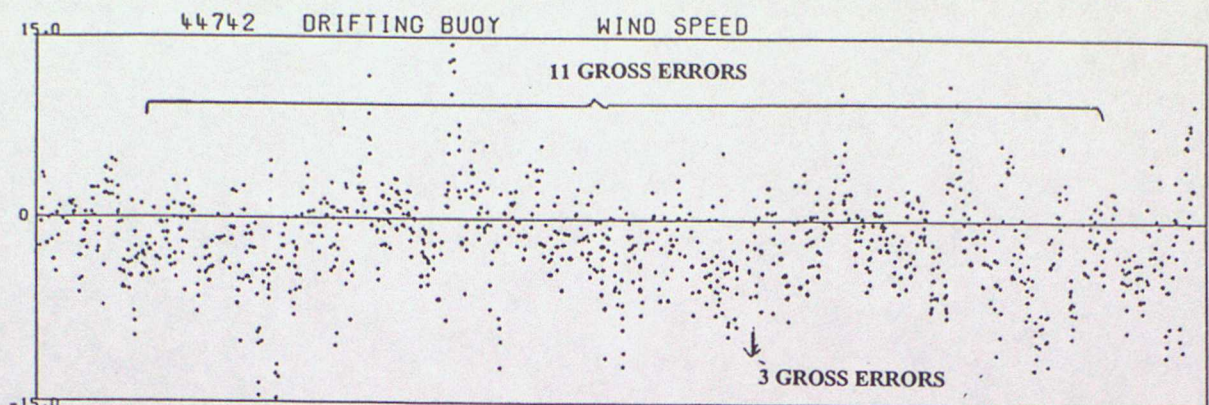


ANNEX E - TIME SERIES PLOTS OF WIND SPEED

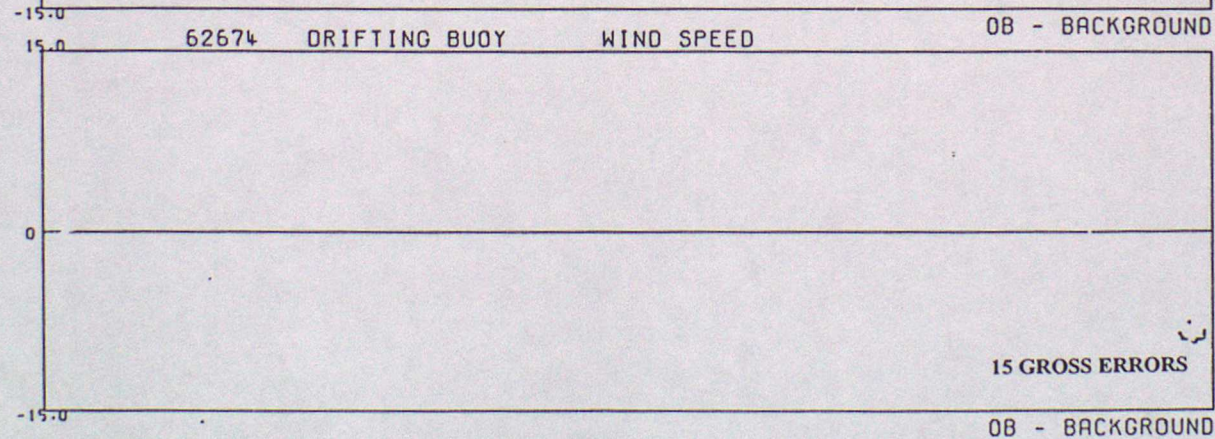
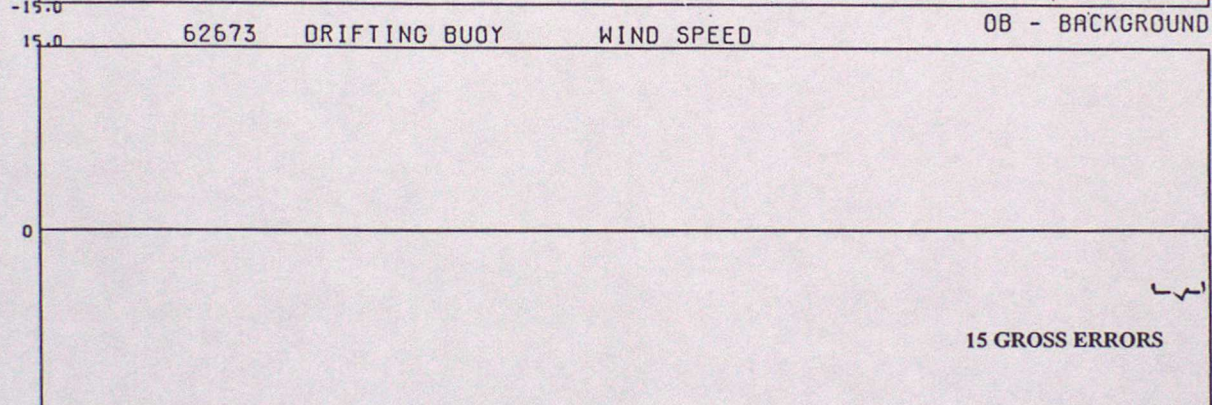
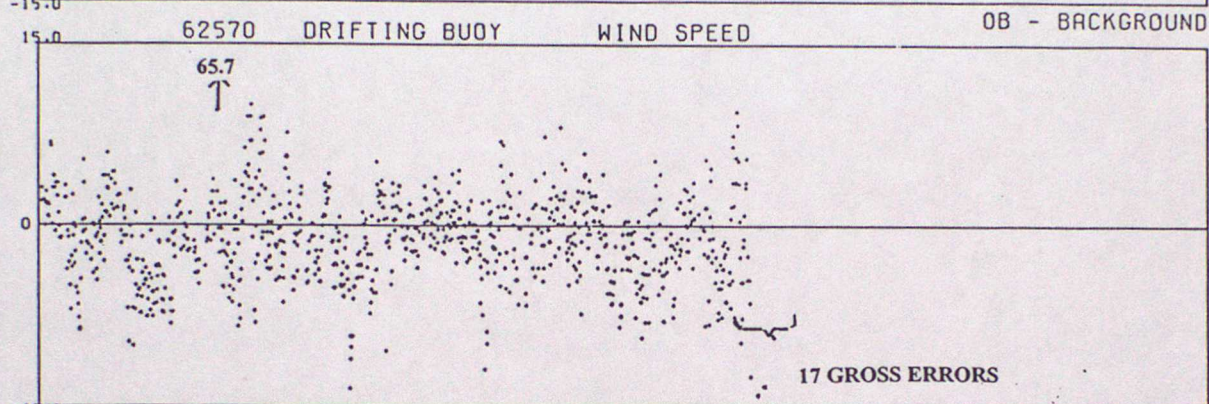
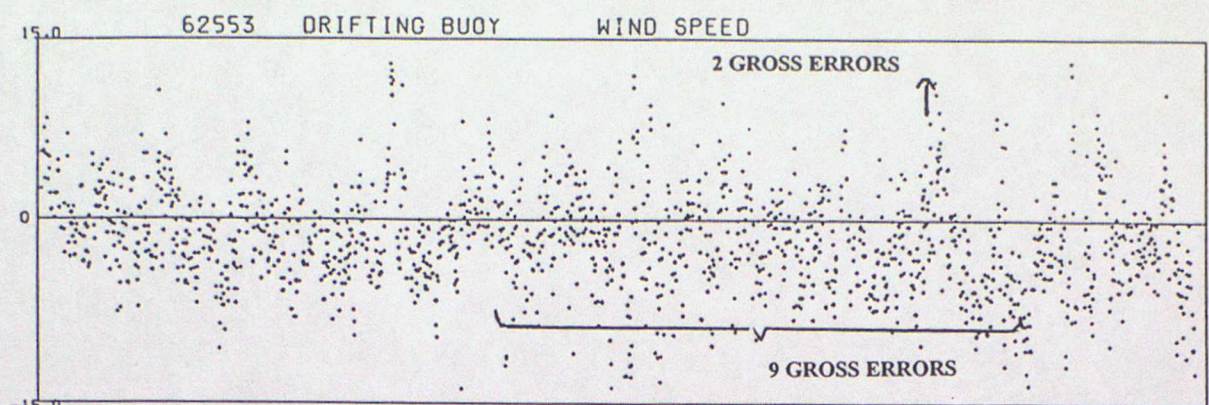
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)

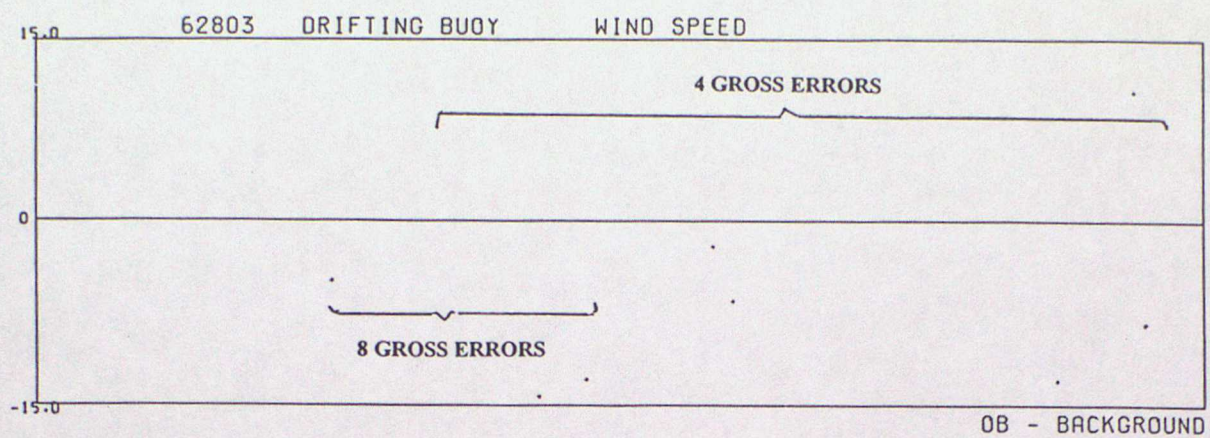


DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



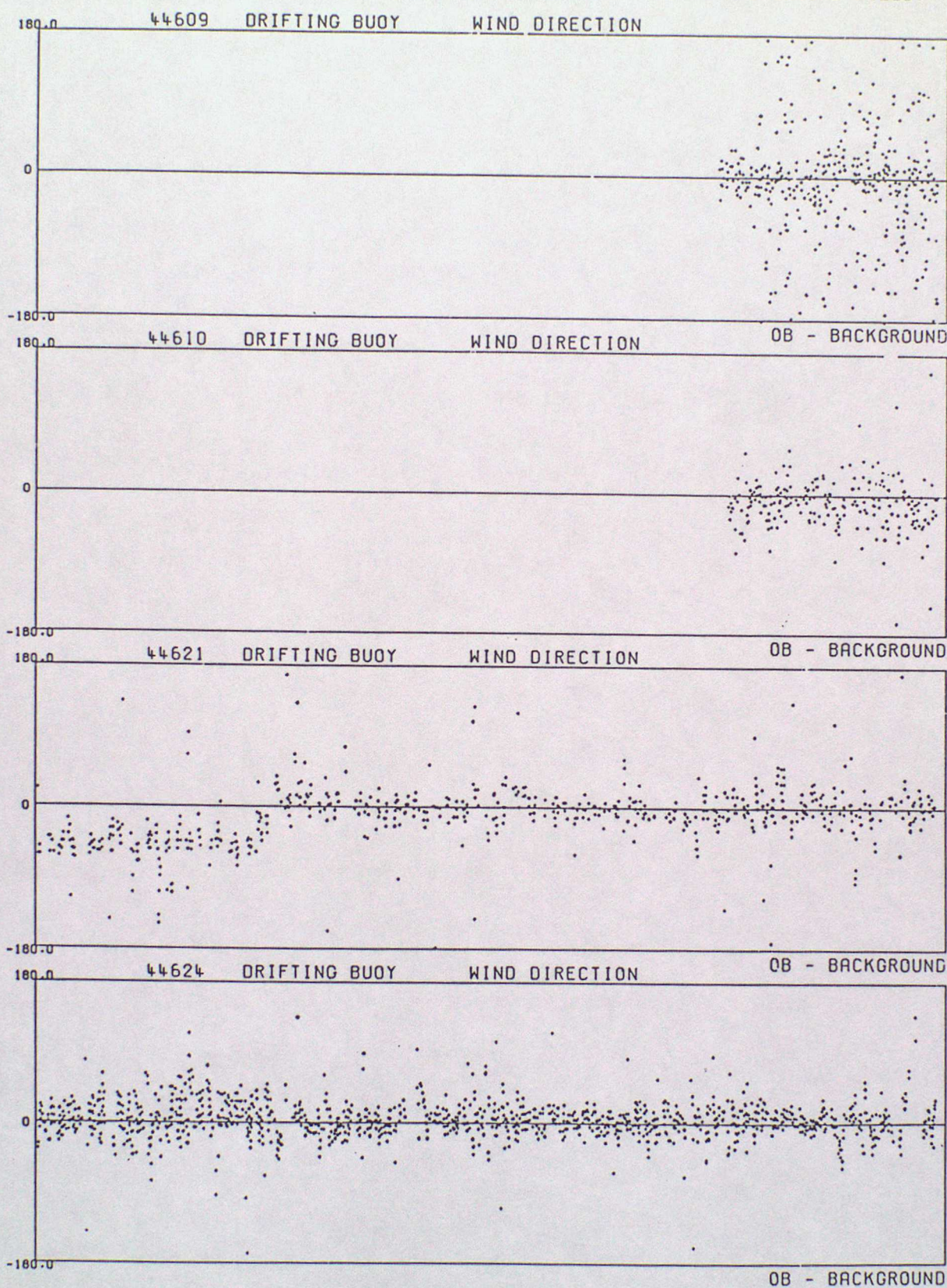
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



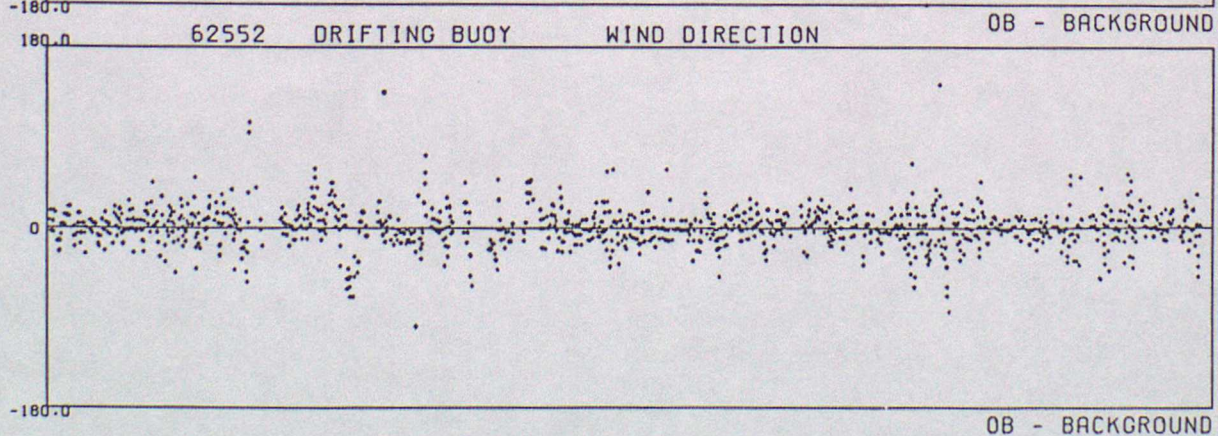
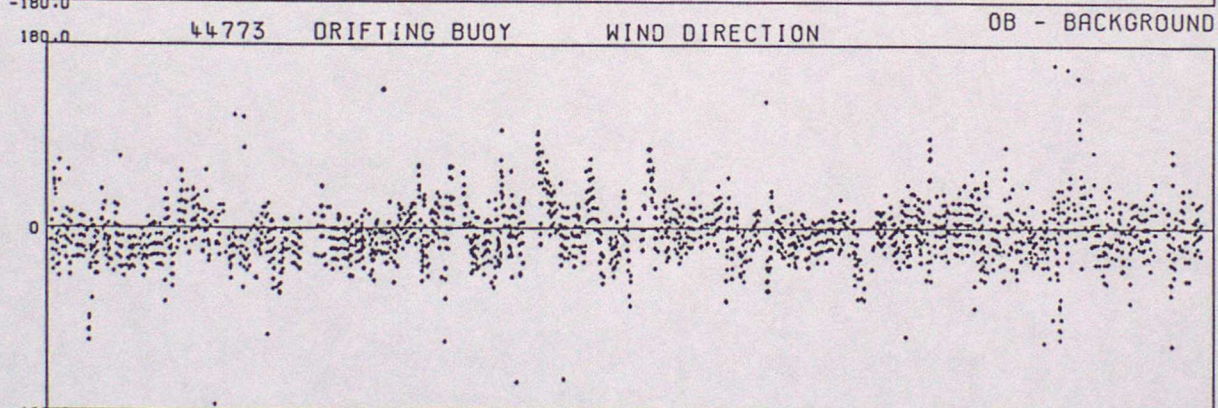
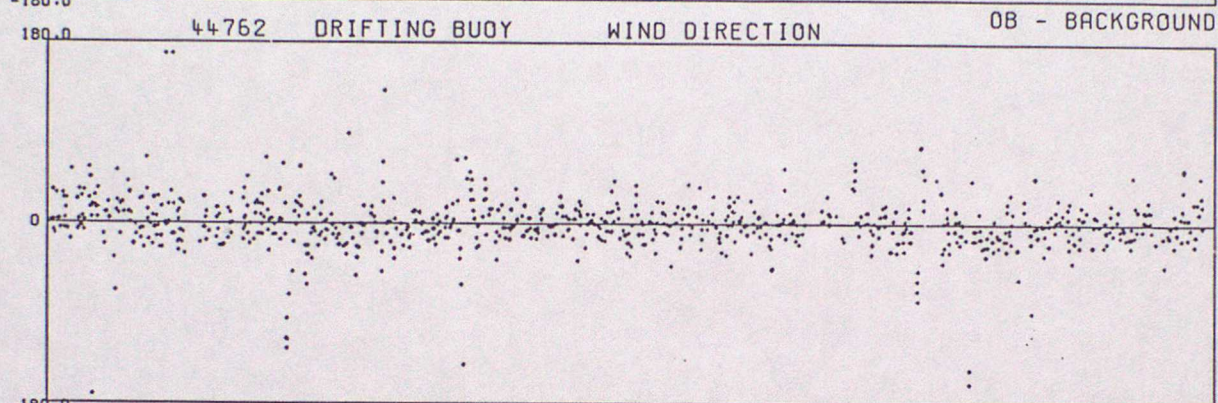
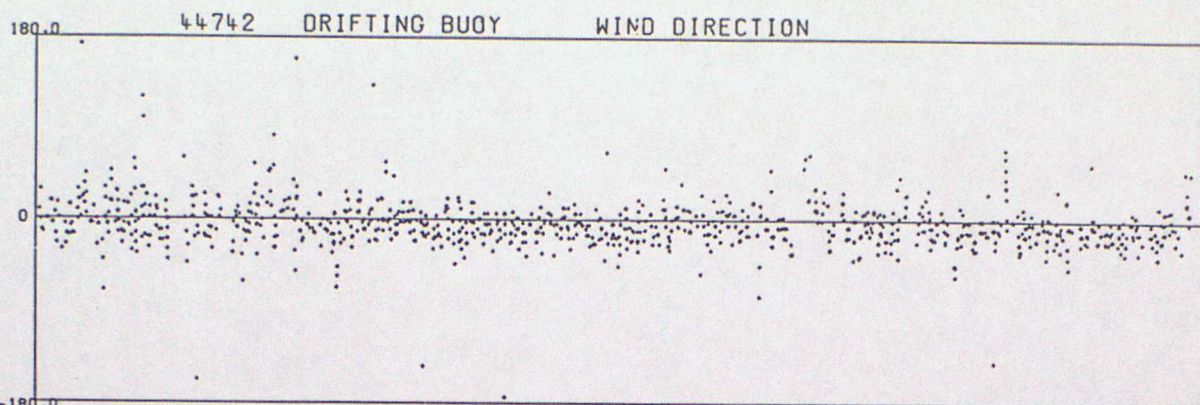


ANNEX F - TIME SERIES PLOTS OF WIND DIRECTION

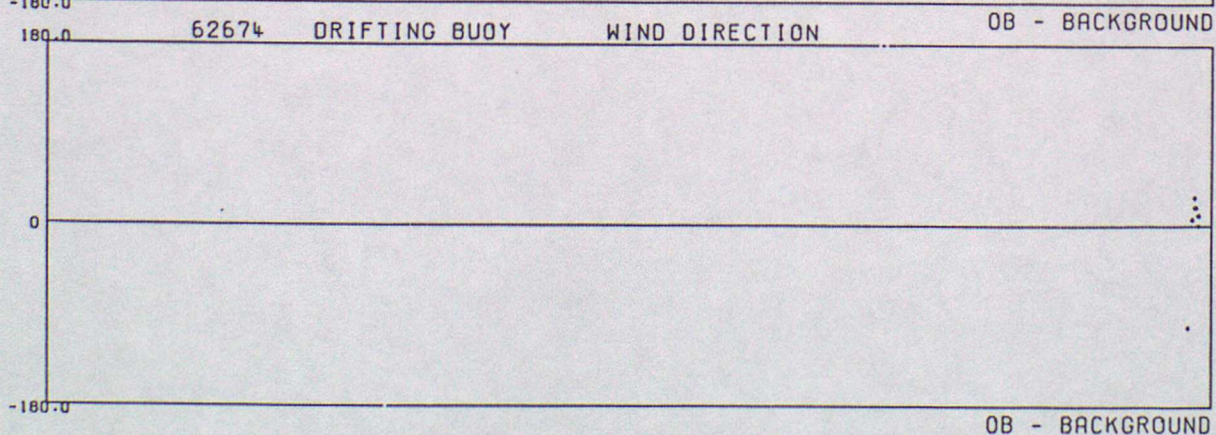
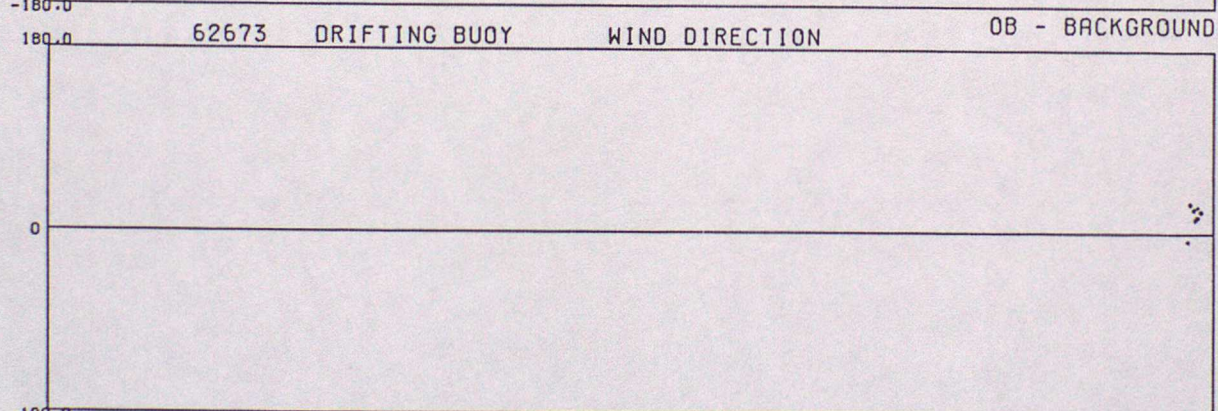
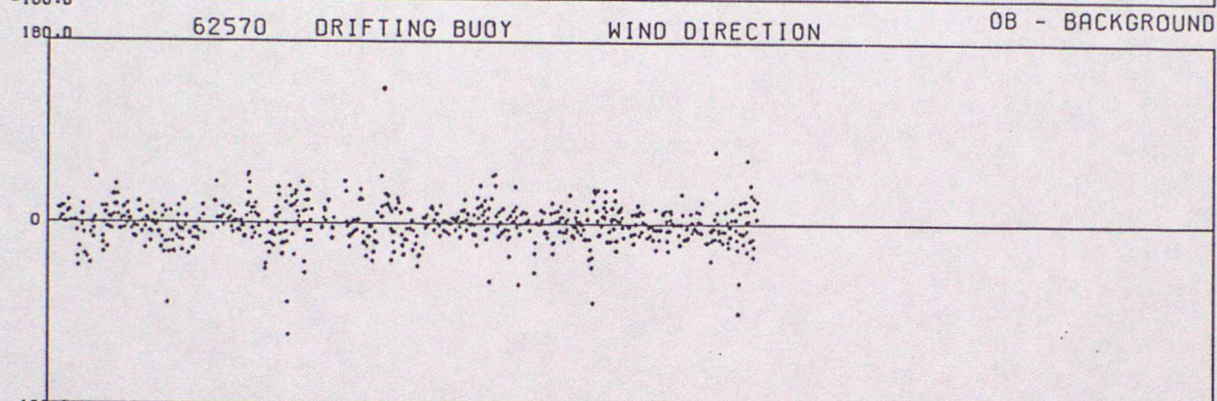
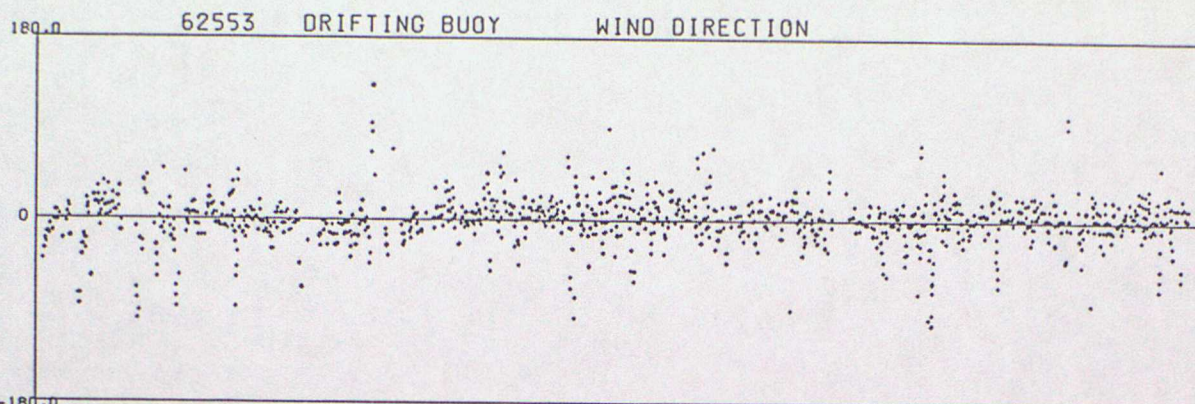
DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)

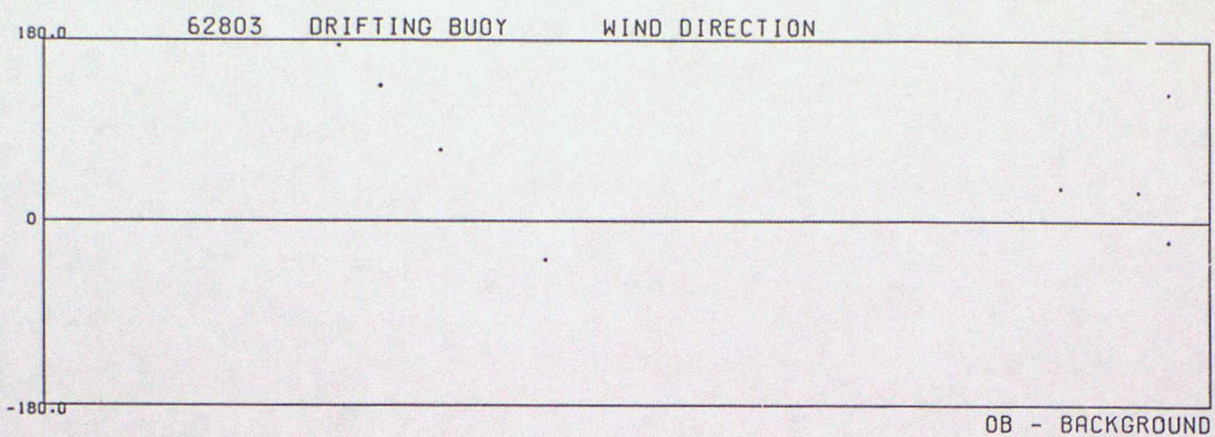


DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)



DATA FROM 00Z ON 01/10/1997 TO 23Z ON 31/12/1997 (OBS - BACKGROUND FIELD)





ANNEX G - SUMMARY TABLE OF OPERATIONAL DRIFTING BUOYS

WMO No.	Argos No.	Owner	Elements Reported						Reporting Period
			PP	Pt	TT	FF	DD	SST	
13903	????	??	*	*				*	01/10 - 31/12
13910	????	??	*	*				*	01/10 - 31/12
13911	????	??	*	*				*	01/10 - 18/10
41922	????	??	*	*				*	01/10 - 09/10
44513	????	US	*		*	*		*	01/10 - 24/11
44605	27933	F	*	*				*	01/10 - 07/10
44608	27938	F	*	*				*	01/10 - 17/11
44609	14430	F	*			*	*	*	08/12 - 31/12
44610	????	F	*			*	*	*	09/12 - 31/12
44613	3306	UK	*	*	*		*	*	01/10 - 15/10
44614	12665	UK	*	*				*	23/12 - 31/12
44616	12661	UK	*	*				*	17/10 - 31/12
44617	26744	UK	*	*	*			*	19/11 - 31/12
44621	26752	UK	*	*	*	*	*		01/10 - 31/12
44624	2958	UK	*	*		*	*	*	01/10 - 31/12
44726	2955	UK	*	*	*	*	*	*	01/10 - 01/10
44727	3098	UK	*	*	*			*	01/10 - 31/12
44728	1254	UK	*	*	*			*	01/10 - 31/12
44742	26753	UK	*	*	*	*	*	*	01/10 - 31/12
44743	1248	UK	*	*				*	01/10 - 31/12
44760	2947	UK	*	*	*			*	01/10 - 31/12
44761	12660	UK	*	*				*	31/10 - 31/12
44762	26754	UK	*	*	*	*	*		01/10 - 31/12
44763	12663	UK	*	*				*	17/10 - 31/12
44765	12662	UK	*	*				*	02/10 - 31/12
44766	12667	UK	*	*				*	23/12 - 31/12
44768	26746	UK	*	*				*	01/10 - 31/12
44769	26749	UK	*	*	*			*	01/10 - 31/12
44771	12659	UK	*	*				*	01/10 - 31/12
44773	26751	UK	*	*	*	*	*	*	01/10 - 31/12
44775	26741	UK	*	*	*			*	01/10 - 31/12
44776	????	UK	*	*				*	08/12 - 31/12
44780	26742	UK	*	*	*			*	19/11 - 31/12
44901	????	??	*	*				*	01/10 - 31/12

KEY

PP - Pressure

TT - Air Temperature

DD - Wind Direction

Pt - Pressure tendency

FF - Wind Speed

SST - Sea Surface Temperature

ANNEX G - Cont.

WMO No.	Argos No.	Owner	Elements Reported						Reporting Period
			PP	Pt	TT	FF	DD	SST	
44911	466	US	*						01/10 - 31/12
44912	????	US	*	*				*	01/10 - 31/12
44925	????	US	*	*				*	01/10 - 30/12
51632	????	??	*		*			*	24/10 - 31/10
62515	14426	F	*	*				*	01/10 - 31/12 +
62552	3008	F	*	*	*	*	*	*	01/10 - 31/12
62553	3009	F	*	*	*	*	*	*	01/10 - 31/12
62554	14430	F	*	*				*	01/10 - 31/12
62555	27932	F	*	*				*	01/10 - 31/12
62556	27935	F	*	*				*	01/10 - 31/12
62557	27930	F	*	*				*	01/10 - 31/12
62558	27931	F	*	*					01/10 - 31/12
62570	????	F	*			*	*	*	01/10 - 03/12
62673	????	??	*		*	*	*	*	04/12 - 31/12
62674	????	??	*		*	*	*	*	04/12 - 31/12
62697	2959	UK	*	*	*	*		*	01/10 - 31/12
62712	3188	UK	*			*		*	01/10 - 15/10
62713	3185	UK	*	*					01/10 - 05/11
62803	3209	UK	*	*	*	*	*	*	01/10 - 31/12
62804	26743	UK	*	*	*				01/10 - 13/11
62927	????	??	*	*				*	01/10 - 31/12 +
62929	????	??	*	*				*	01/10 - 31/12
64528	4274	NL	*	*	*			*	01/10 - 31/12
64530	????	??	*	*				*	08/12 - 31/12
64552	????	??	*	*				*	12/12 - 31/12
64561	1247	UK	*	*				*	01/10 - 31/12
64563	3679	N	*	*	*			*	01/10 - 31/12
65591	26748	UK	*	*	*			*	10/12 - 31/12
65592	4270	D	*	*	*			*	28/11 - 31/12
65594	1252	UK	*	*	*			*	01/10 - 31/12
65596	3036	NL	*	*	*			*	01/10 - 31/12
65597	4273	NL	*	*	*			*	01/10 - 31/12

KEY

PP - Pressure	Pt - Pressure tendency
TT - Air Temperature	FF - Wind Speed
DD - Wind Direction	SST - Sea Surface Temperature

+ Pressure ceased reporting before the end of the period
but other elements continued to report

