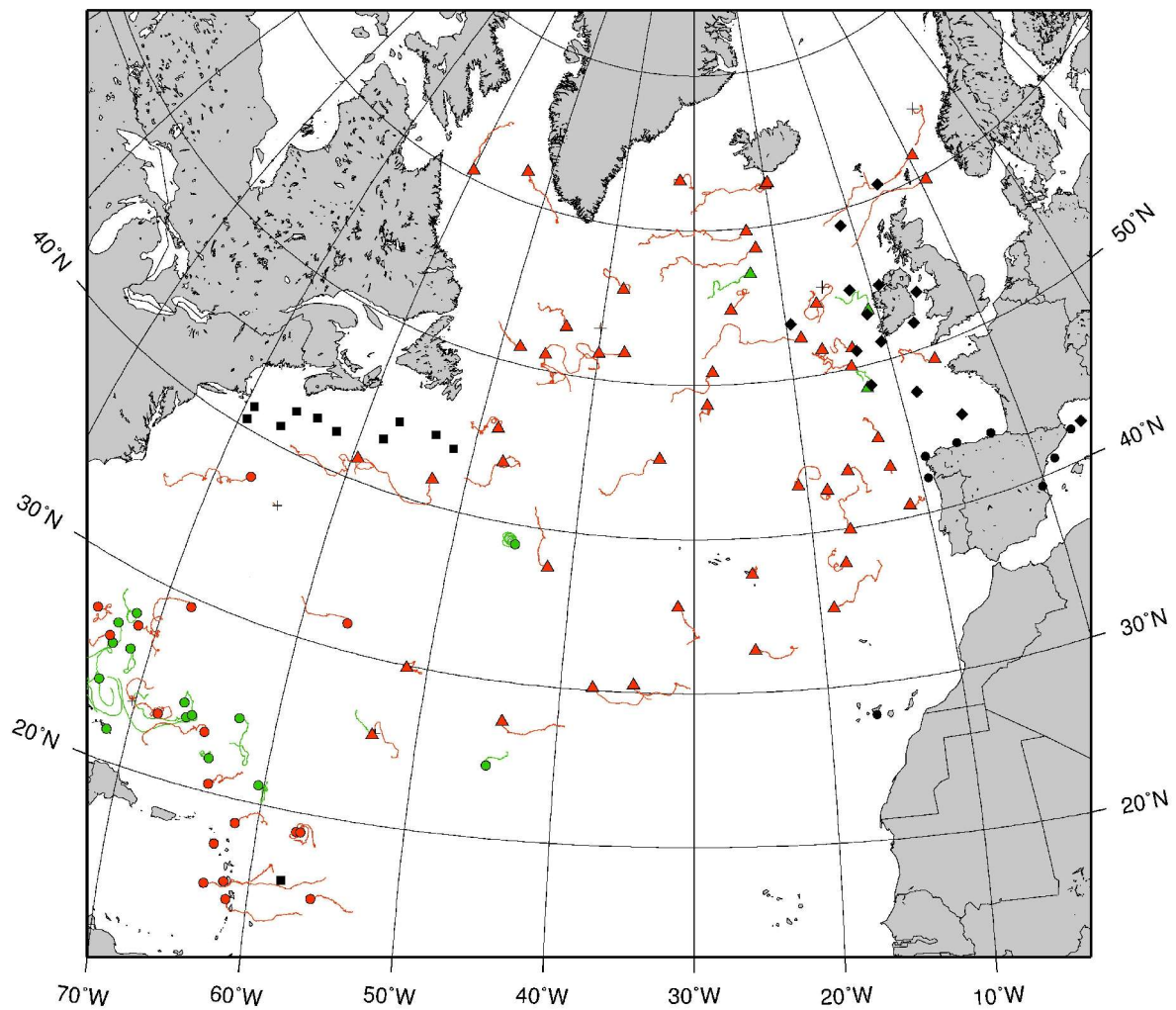


DATA BUOYS MONTHLY REPORT

December 2004



December 2004 - Operating data buoys in the North Atlantic
Drifting buoy trajectories and moored buoy positions

**E-SURFMAR DB Monthly Report
December 2004**

DRIFTING BUOYS

Drifting buoys - New deployments

WMO	Argos	Typ	Ow	DepDate	DepLat	DepLon	From	Comment
44607	52190	TSB	FR	20041208	40.4	-62.3	Fos	
44608	52191	TSB	FR	20041207	40.2	-59.2	Fos	
44724	21179	MSB	UK	20041217	53.0	-40.0	Tilbury	
44725	21183	MSB	UK	20041216	52.5	-51.0	Tilbury	

Operating drifting buoys by the end of the month

WMO	Argos	Typ	Ow	Nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon	Age
13534	52187	TSB	FR	748	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	35.58	-31.27	50
41600	22521	MSB	UK	780	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	37.61	-41.99	399
41601	21156	MSB	UK	659	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	45.17	-33.15	263
44547	42793	TSB	FR	775	-	-	X	X	X	-	-	-	-	-	-	T	0112-3112	58.64	-22.39	298
44549	42794	TSB	FR	750	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	51.63	-39.97	185
44550	52193	TSB	FR	750	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	50.97	-45.35	47
44601	52194	TSB	FR	750	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	45.72	-48.27	46
44607	52190	TSB	FR	549	-	-	X	X	X	-	-	S	-	-	-	T	0912-3112	41.28	-59.54	23
44608	52191	TSB	FR	573	-	-	X	X	X	-	-	X	-	-	-	T	0812-3112	41.56	-52.91	24
44612	21124	MSB	UK	722	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	54.78	-25.90	416
44617	21325	TSB	UK	740	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	50.81	-28.11	379
44623	22513	MSB	UK	781	-	-	X	X	X	-	-	-	-	-	-	T	0112-3112	29.83	-51.56	574
44624	21326	TSB	UK	672	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	48.65	-28.72	370
44625	21344	TSB	UK	753	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	59.79	-23.36	325
44627	21191	TSB	UK	638	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	43.10	-20.76	269
44628	21329	MSB	UK	784	-	-	X	X	X	-	-	-	-	-	-	T	0112-3112	32.72	-25.30	574
44630	22004	MSB	UK	768	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	27.49	-44.06	574
44721	52246	MSB	UK	743	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	53.00	-43.77	129
44722	52258	MSB	UK	738	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	43.71	-47.20	73
44723	52259	MSB	UK	735	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	55.92	-38.19	75
44725	21183	MSB	UK	314	-	-	X	X	X	-	-	X	-	-	-	T	1712-3112	51.09	-48.08	15
44742	21443	TSB	EU	641	-	-	X	X	-	-	-	X	-	-	-	T	0112-3112	39.91	-16.82	471
44743	21046	MSB	EU	577	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	43.37	-12.48	472
44745	34408	TSB	EU	764	-	-	X	X	X	-	-	-	-	-	-	T	0112-3112	50.11	-14.08	472
44766	21838	TSB	EU	649	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	49.13	-5.84	444
44773	28425	CFB	DE	391	-	X	X	X	X	-	-	-	-	-	-	T	0112-3112	62.60	-20.03	370
44775	09308	CFB	DE	383	-	X	X	X	X	-	-	-	-	-	-	T	0112-3112	51.88	-37.29	81
44777	06666	CFB	IE	318	-	X	X	X	-	-	-	-	-	-	-	T	0112-3112	25.41	-53.19	625
44778	06667	CFB	IE	259	-	X	X	X	X	-	-	-	-	-	-	T	0112-3112	30.17	-37.60	625
44779	03678	CFB	NO	387	-	X	X	X	X	-	-	-	-	-	-	T	0112-3112	52.49	-18.62	82
62510	52189	TSB	FR	747	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	37.66	-25.23	51
62511	52195	MSW	FR	675	X	-	X	X	X	-	-	X	-	-	-	T	0112-3112	48.56	-12.95	36
62512	42651	MSB	FR	739	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	45.30	-13.00	36
62556	42790	TSB	FR	1228	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	35.05	-18.95	262
62557	42791	TSB	FR	741	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	40.74	-11.44	262
62558	37390	TSB	FR	734	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	37.81	-17.54	251
62560	37396	MSB	FR	798	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	43.61	-16.25	186
62562	37400	MSB	FR	1258	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	51.54	-16.65	192
62563	42648	MSB	FR	722	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	54.51	-16.37	206
62564	42649	MSB	FR	737	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	42.59	-18.27	188
62565	42657	MSW	FR	717	X	-	X	X	X	-	-	X	-	-	-	T	0112-3112	53.34	-10.98	207
62566	42658	MSW	FR	733	X	-	X	X	X	-	-	X	-	-	-	T	0112-3112	57.03	-23.33	205
62694	21200	TSB	UK	650	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	51.26	-13.61	271
62801	19074	MSB	EU	886	-	-	X	X	X	-	-	-	-	-	-	T	0112-3112	30.48	-34.55	666
64524	42792	TSB	FR	760	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	61.86	-53.19	188
64608	21086	MSB	UK	769	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	60.51	-59.98	257
64609	52257	MSB	UK	737	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	63.21	-32.03	76
64610	52256	MSB	UK	705	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	62.74	-19.72	64
65599	28426	CFB	DE	132	-	X	X	X	X	-	-	-	-	-	-	T	0412-3112	59.71	0.74	362
65600	03677	CFB	NO	203	-	X	X	X	X	-	-	-	-	-	-	T	0112-3112	61.43	0.53	229

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Drifting buoys which ceased to be operational

WMO	Argos	Typ	Ow	End_Date	Lat	Lon	Age	Cause
44603	37395	MSB	FR	20041226	63.94	3.71	692	Faded
44724	21179	MSB	UK	20041219	53.26	-40.18	2	Quick failure - Unknown reason
44761	21327	TSB	UK	20041224	55.50	-15.32	421	Faded

Non-operating drifting buoys reporting GTS data

WMO	Argos	Typ	Ow	Nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon	Age
44548	42795	TSB	FR	855	-	-	-	-	X	-	-	-	-	-	-	T	0112-3112	49.88	-8.83	297
44616	21092	MSB	UK	732	-	-	-	-	X	-	-	X	-	-	-	T	0112-3112	55.37	-29.41	389
44741	22647	MSB	UK	769	-	-	-	-	X	-	-	-	-	-	-	T	0112-3112	39.18	-35.47	574
44744	34411	TSB	FR	1112	-	-	-	-	X	-	-	-	-	-	-	T	0112-3112	42.24	-15.83	500
44768	21444	TSB	UK	746	-	-	-	-	X	-	-	X	-	-	-	T	0112-3112	58.88	-22.26	427
62559	37391	TSB	FR	751	-	-	-	-	X	-	-	X	-	-	-	T	0112-3112	36.11	-18.14	250

Non-operating drifting buoys which ceased to report data onto the GTS

WMO	Argos	Typ	Ow	End_Date	Lat	Lon	Age	Cause
44604	34410	TSB	FR	20041213	61.29	4.61	649	Ashore or picked up in Norway
44613	13696	MSB	UK	20041225	70.70	21.41	734	Faded

Other operating drifting buoys into the EUCOS area of interest by the end of the month

WMO	Argos	Owner	Nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon
41520	40433	NAVO	1116	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	20.47	-63.84
41521	40434	NAVO	1075	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	18.66	-61.54
41539	02803	UW	592	X	-	X	X	X	-	-	X	-	-	-	L	0112-3112	24.38	-66.68
41540	47577	NAVO	571	X	-	X	X	X	-	-	X	-	-	-	L	0112-3112	38.86	-45.00
41544	47581	NAVO	557	X	-	X	X	X	-	-	X	-	-	-	L	0112-3112	21.05	-60.41
41545	47582	NAVO	498	X	-	X	X	X	-	-	X	-	-	-	L	0112-3112	23.66	-66.31
41548	47611	NAVO	1114	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	18.85	-57.33
41549	47612	NAVO	1192	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	18.80	-57.07
41551	47614	NAVO	1061	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	14.35	-61.42
41595	40047	GDC	606	X	-	X	X	X	-	-	X	-	-	-	L	0112-3112	24.59	-44.88
41631	34746	NAVO	355	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	29.45	-68.11
41655	34752	NAVO	492	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	31.63	-56.60
41663	47640	NAVO	1030	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	17.29	-62.71
41664	47641	NAVO	1283	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	15.01	-63.01
41665	47642	NAVO	1324	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	15.07	-55.77
41666	47643	NAVO	1321	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	15.31	-61.72
41920	37019	SIO	240	X	-	X	-	-	-	-	-	-	-	-	L	0112-3112	21.85	-64.15
41926	49960	SIO	168	X	-	X	-	-	-	-	-	-	-	-	L	1112-3112	23.86	-65.97

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MOORED BUOYS

Operating EGOS moored buoys (K-pattern)

WMO	Name	Nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon
61001	Cote d'Azur	728	X	X	X	X	X	X	X	-	-	X	-	O	0112-3112	43.40	7.80
61002	Lion	718	X	X	X	X	X	X	X	-	-	X	-	O	0112-3112	42.10	4.70
62001	Gascogne	749	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	45.30	-5.00
62029	K1	770	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	48.70	-12.50
62081	K2	771	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	51.00	-13.20
62090	M1	687	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	53.10	-11.20
62091	M2	676	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	53.50	-5.40
62092	M3	750	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	51.20	-10.50
62093	M4	674	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	54.70	-9.10
62094	M5	716	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	51.70	-6.70
62105	K4	671	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	54.90	-12.40
62106	Rarh	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57.00	-9.90
62108	K3	739	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	53.50	-19.50
62163	Brittany	755	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	47.50	-8.40
64045	K5	733	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	59.00	-11.40
64046	K7	652	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	60.70	-5.20

Comments :
- Rarh moored buoy is not operating.

Operating EGOS moored buoys (Oceanor)

WMO	Name	Nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon
13130	Gran Canaria	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28.18	-15.82
13131	Tenerife Sur	X	X	X	-	X	X	X	-	-	X	-	O	-	-	28.00	-16.58
61196	C. Begur	X	X	X	-	-	X	X	-	-	X	-	O	-	-	41.92	3.65
61197	Mahon	X	X	X	-	-	X	X	-	-	X	-	O	-	-	39.72	4.42
61198	C. de Gata	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.57	-2.33
61199	M. Alboran	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.23	-5.03
61280	Tarragona	X	X	X	-	X	X	X	-	-	X	X	O	-	-	40.77	1.47
61281	Valencia	X	X	X	-	X	X	X	-	-	X	X	O	-	-	39.47	-0.27
62024	Bilbao-Vizc.	-	X	X	-	-	X	X	-	-	X	-	O	-	-	43.63	-3.03
62025	C. de Penas	X	X	X	-	X	X	X	-	-	X	X	O	-	-	43.73	-6.17
62082	E. de Bares	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44.07	-7.62
62083	Villano-Sis.	X	X	X	-	X	X	X	-	-	X	X	O	-	-	43.48	-9.22
62084	C. Silheiro	X	X	X	-	X	X	X	-	-	X	X	O	-	-	42.12	-9.40
62085	G. de Cadiz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.48	-6.97

Comments :
- The GTS data transmission started on December 13th, 2004 for the Spanish moored buoys.
Reports are in BUFR code. GTS BUFR data monitoring tools are not yet available.

Other open ocean moored buoys into the EUCOS area of interest

WMO	Name	Nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon
41100	E. Guadelou.	675	X	X	X	X	X	X	X	-	-	X	-	O	0112-3112	15.90	-57.90
41101	E. Martiniq.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.60	-56.20
44008	A Nantucket	740	X	X	X	X	X	X	X	-	-	-	-	O	0112-3112	40.50	-69.40
44011	D Georges Bk	722	X	X	X	X	X	X	X	-	-	-	-	O	0112-3112	41.10	-66.60
44018	SE Cape Cod	742	X	X	X	X	X	X	X	-	-	X	-	O	0112-3112	41.30	-69.30
44024	NNE Channel	678	-	X	-	-	X	X	-	-	-	X	-	O	0112-3112	42.30	-65.90
44137	E Scotia Sl.	735	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	42.30	-62.00
44138	SW Gd Banks	410	-	-	X	X	X	X	-	-	-	-	-	O	0112-3112	44.30	-53.60
44139	Banquereau	724	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	44.30	-57.10
44140	Tail of Bk	579	-	X	X	X	X	X	-	-	-	-	-	O	0112-3112	43.80	-51.80
44141	Laurentian F	726	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	43.00	-58.00
44142	La Have Bk	735	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	42.50	-64.00

Meaning of columns

WMO : WMO id.
Argos : Argos id.
Typ : Buoy type
 - first character : Manufacturer (C = ConMar , M = Metocean, T = Technocean,
 Y = Marlin-Yug...)
 - second character : Main type (F = FGGE, S = SVP)
 - third character : Sub type (B = barometer buoy, W = Wind buoy,
 S = Salinity buoy)
Ow : Buoy owner (country code or EU for EUCOS)
Owner : Buoy owner for non EUCOS buoys
Nobs : number of GTS reports received at Meteo-France
Parameters (X = OK, S = stopped, - = not measured) :
 Wi : Wind
 AT : Air Temperature
 AP : Air Pressure
 dP : Air pressure tendancy
 ST : Sea surface Temperature
 Wa : Wave period and height
 Ws : Wave spectra
 Dr : Drogue presence
 Sb : Subsurface temperature
 U : Relative humidity
 SS : Sea surface Salinity
O : Origin of the reports (T = Argos Toulouse, L = Argos Largo, O = Other)
Start_end : first and last dates of the month for which GTS data were received at Meteo-France
Lat : Latitude of the latest position
Lon : Longitude of the latest position
Age : Age of the buoy (days)

DepDate : Date of deployment
DepLat : Latitude of deployment
Dep Lon : Longitude of Deployment
From : Harbour of departure

Definition : An operating drifting buoy is a buoy providing at least air pressure or wind
(direction and velocity) data.

Buoy-QC statistics from Meteo-France model outputs

Date of end : Date of the last value received on GTS
Nb received : Total number of values received on GTS
Number GE : Number of Gross Errors (excluded from bias and sd computations)
Mean bias : Mean differences between observation values and co-located model output values
Std deviation : Standard deviation of differences
Mean rate : For wind speed values, average of 'obs/model' rates. Should be close to 1.
Error : For wind speed values, run mean square of differences 'obs/rate – model'.

Air Pressure (hPa), EGOS drifting buoys, December 2004

Datend	WMO	Argos	Recvd	GE	Bias	Std
20041231	13534	52187	743	0	0.1	0.9
20041231	41600	22521	722	0	-0.3	1.2
20041231	41601	21156	657	1	-0.1	1.1
20041231	44547	42793	655	4	-0.5	2.1
20041231	44549	42794	646	15	0.5	1.9
20041231	44550	52193	658	1	0.2	2.0
20041231	44601	52194	699	1	-0.9	1.8
20041226	44603	37395	599	9	0.7	1.8
20041231	44607	52190	549	1	0.3	1.6
20041231	44608	52191	571	0	0.1	1.3
20041231	44612	21124	639	0	0.2	1.7
20041231	44617	21325	660	0	0.5	1.5
20041231	44623	22513	729	42	-0.2	1.5
20041231	44624	21326	579	0	1.2	1.5
20041231	44625	21344	661	17	-0.9	2.3
20041231	44627	21191	559	0	0.4	0.9
20041231	44628	21329	697	0	-0.1	0.7
20041231	44630	22004	728	1	0.2	0.6
20041231	44721	52246	740	0	1.9	1.9
20041231	44722	52258	735	0	0.1	1.4
20041231	44723	52259	730	4	-0.4	2.0
20041219	44724	21179	46	1	0.1	1.7
20041231	44725	21183	313	1	0.5	2.0
20041231	44773	28425	308	2	-0.6	2.2
20041231	44775	09308	341	1	-0.7	1.7
20041231	44777	06666	293	0	0.0	0.5
20041231	44778	06667	229	0	-0.1	0.5
20041231	44779	03678	326	1	-0.3	1.6
20041231	62510	52189	745	0	-0.1	0.7
20041231	62511	52195	660	2	0.9	1.1
20041231	62512	42651	732	0	1.1	0.8
20041231	62556	42790	1221	22	-0.1	0.7
20041231	62557	42791	717	0	0.0	0.8
20041231	62558	37390	730	0	-0.1	0.8
20041231	62560	37396	664	0	0.4	0.8
20041231	62562	37400	1076	7	0.9	1.2
20041231	62563	42648	720	0	-0.2	1.4
20041231	62564	42649	732	0	0.2	0.7
20041231	62565	42657	705	2	0.2	1.3
20041231	62566	42658	723	5	-0.2	1.8
20041231	62694	21200	551	0	0.5	1.3
20041231	64524	42792	678	24	0.8	1.9
20041231	64608	21086	693	8	0.2	1.8
20041231	64609	52257	734	3	0.0	1.9
20041231	64610	52256	702	0	-0.1	2.0
20041231	65599	28426	114	0	0.0	1.5
20041231	65600	03677	132	1	-0.3	1.8

Air Pressure (hPa), EUCOS drifting buoys, December 2004

Datend	WMO	Argos	Recvd	GE	Bias	Std
20041231	44742	21443	559	0	-0.3	0.7
20041231	44743	21046	497	0	-0.1	0.8
20041231	44745	34408	758	0	-0.3	1.1
20041224	44761	21327	498	0	0.2	1.5
20041231	44766	21838	564	0	-0.3	1.1
20041231	62801	19074	786	0	0.3	0.8

Air Pressure (hPa), EGOS moored buoys, December 2004

Datend	WMO	Argos	Recvd	GE	Bias	Std
20041231	61001		726	0	-0.5	0.8
20041231	61002		718	0	0.7	0.8
20041231	62001		730	2	-0.2	0.9
20041231	62029		739	2	-0.1	0.9
20041231	62081		739	3	-0.5	1.0
20041231	62090		660	2	0.0	1.3
20041231	62091		640	3	-0.3	1.2
20041231	62092		725	1	0.4	1.2
20041231	62093		643	0	0.1	1.4
20041231	62094		706	0	0.1	1.2
20041231	62105		630	4	-0.4	1.3
20041231	62108		700	3	-0.2	1.5
20041231	62163		736	0	0.2	0.9
20041231	64045		679	3	-0.1	1.7
20041231	64046		550	14	-0.3	1.7

Air Temperature (C), EGOS drifting buoys, December 2004

Datend	WMO	Argos	Recvd	GE	Bias	Std
20041231	44773	28425	310	2	-0.5	0.9
20041231	44775	09308	336	0	0.0	1.0
20041231	44777	06666	266	0	0.4	0.7
20041231	44778	06667	222	0	0.2	1.3
20041231	44779	03678	323	0	-0.2	0.8
20041231	65599	28426	109	0	-0.1	0.9
20041231	65600	03677	126	0	-0.4	0.7

Air Temperature (C), EGOS moored buoys, December 2004

Datend	WMO	Argos	Recvd	GE	Bias	Std
20041231	61001		728	0	1.0	0.8
20041231	61002		712	0	0.2	0.7
20041231	62001		740	1	-0.2	0.7
20041231	62029		752	0	-0.2	0.7
20041231	62081		743	1	-0.2	0.8
20041231	62090		639	1	0.0	0.6
20041231	62091		643	3	1.4	0.9
20041231	62092		716	1	-0.5	0.7
20041231	62093		616	2	0.9	1.0
20041231	62094		699	1	0.9	0.7
20041231	62105		631	0	-0.2	1.0
20041231	62108		691	4	-0.3	0.9
20041231	62163		747	0	0.1	0.7
20041231	64045		687	4	-0.3	0.9
20041231	64046		488	1	-0.3	1.1

Wind direction (deg.), EGOS drifting buoys, December 2004

Datend	WMO	Argos	Recvd	GE	Bias	Std
20041231	62511	52195	608	1	4.	16.
20041231	62565	42657	624	6	-6.	18.
20041231	62566	42658	672	4	0.	19.

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Wind direction (deg.), EGOS moored buoys, December 2004

Datend	WMO	Argos	Recvd	GE	Bias	Std
20041231	61001		719	49	1.	29.
20041231	61002		596	13	7.	24.
20041231	62001		720	6	-1.	20.
20041231	62029		732	3	2.	15.
20041231	62081		731	5	-2.	17.
20041231	62090		636	3	-2.	17.
20041231	62091		605	13	-4.	19.
20041231	62092		729	6	-2.	17.
20041231	62093		599	8	-4.	19.
20041231	62094		703	20	0.	19.
20041231	62105		616	2	3.	16.
20041231	62108		687	3	0.	18.
20041231	62163		728	1	2.	17.
20041226	64045		15	1	-70.	32.
20041231	64046		516	2	-1.	19.

Wind speed rate, EGOS drifting buoys, December 2004

Datend	WMO	Argos	Recvd	GE	Bias	Std
20041231	62511	52195	608	0	1.2	1.9
20041231	62565	42657	624	1	1.3	2.4
20041231	62566	42658	672	0	1.1	2.5

Wind speed rate, EGOS moored buoys, December 2004

Datend	WMO	Argos	Recvd	GE	Bias	Std
20041231	61001		721	0	2.0	2.7
20041231	61002		597	0	1.0	3.3
20041231	62001		737	0	1.1	1.3
20041231	62029		745	1	1.0	1.5
20041231	62081		746	3	1.0	1.6
20041231	62090		657	2	1.0	2.1
20041231	62091		638	3	1.4	1.9
20041231	62092		740	2	1.1	1.5
20041231	62093		618	4	1.1	2.0
20041231	62094		705	1	1.3	1.6
20041231	62105		636	2	1.0	2.0
20041231	62108		703	1	0.9	2.0
20041231	62163		739	1	1.1	1.4
20041231	64045		698	3	1.0	2.3
20041231	64046		565	3	1.0	2.2

Comments on QC statistics :

Air pressure

1. 2.3% of the air pressure (AP) values reported by Technocean SVP-B drifter 42794 (WMO **44549**) were wrong during the month. This is due to a bug present on old test SVP-B drifter series. This bug can't be remotely corrected.
2. For an unknown reason, Metocean SVP-B drifter 22513 (WMO **44623**) reported 42 wrong AP values at the beginning of the month.
3. Technocean SVP-B drifters 21344 and 42792 (WMO **44625** and **64524** respectively) have probably some water in the pipe which links the air port to the barometer. Blockages occur from time to time. About 3% of wrong AP values were sent onto the GTS in December.
4. Technocean SVP-B drifter 42790 (WMO **62556**) reported 22 AP values equal to the bottom of the range (850 hPa). The problem has been fixed by raising the lowest limit for this parameter.
5. According to monthly statistics, a drift appears on AP values reported by Technocean SVP-B drifter 21326 (WMO **44624**) deployed one year ago. A correction of -1.5 hPa is now needed. It has been applied today. Notice that the standard deviation of differences with model outputs is slightly high for this buoy (1.9 hPa).
6. According to monthly statistics, a correction of -1.5 hPa is also needed for Technocean drifter 42651 (WMO **62512**) deployed one month ago. The correction has been applied 3rd january 2005

Air temperature

7. According to monthly statistics performed at Meteo-France, moored buoys **61001** (Côte d'Azur) and **62092** (M2) would need a correction of -1.0°C and -1.4°C respectively. Although NCEP is in agreement with this finding, ECMWF and UKMO models disagree. So, no corrections are requested.

Wind

8. Moored buoy **64045** (K5) reported a few wrong wind values onto the GTS in December.
9. As usually, the Côte d'Azur moored buoy (WMO **61001**) is providing wind values for which the differences with model outputs show significant standard deviation and/or error. This is due to local effects which aren't correctly reproduced by the French global NWP model used for comparisons.

Monthly QC statistics and other data quality control tools are available on line at :

<http://www.meteo.shom.fr/qctools/>