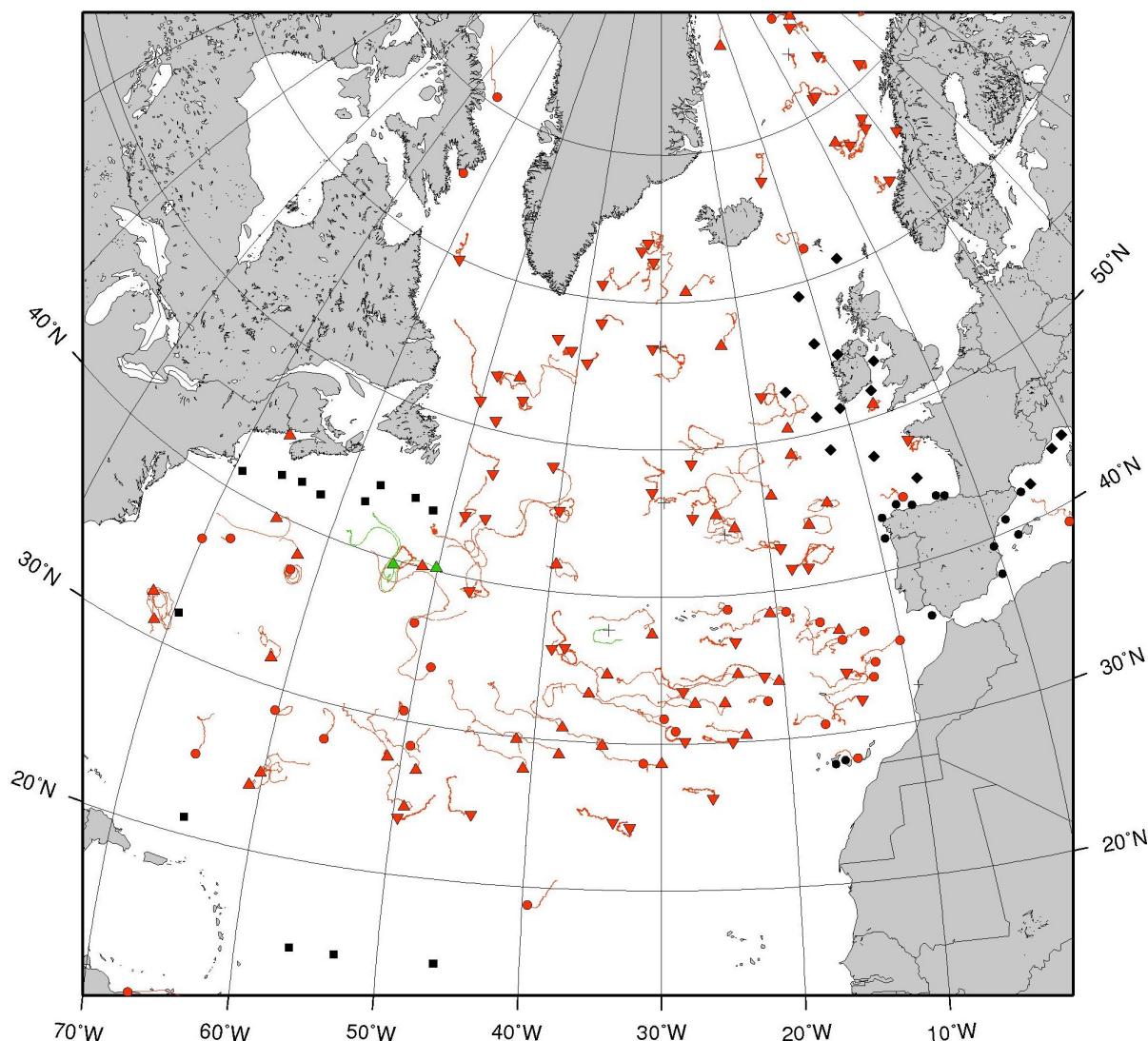


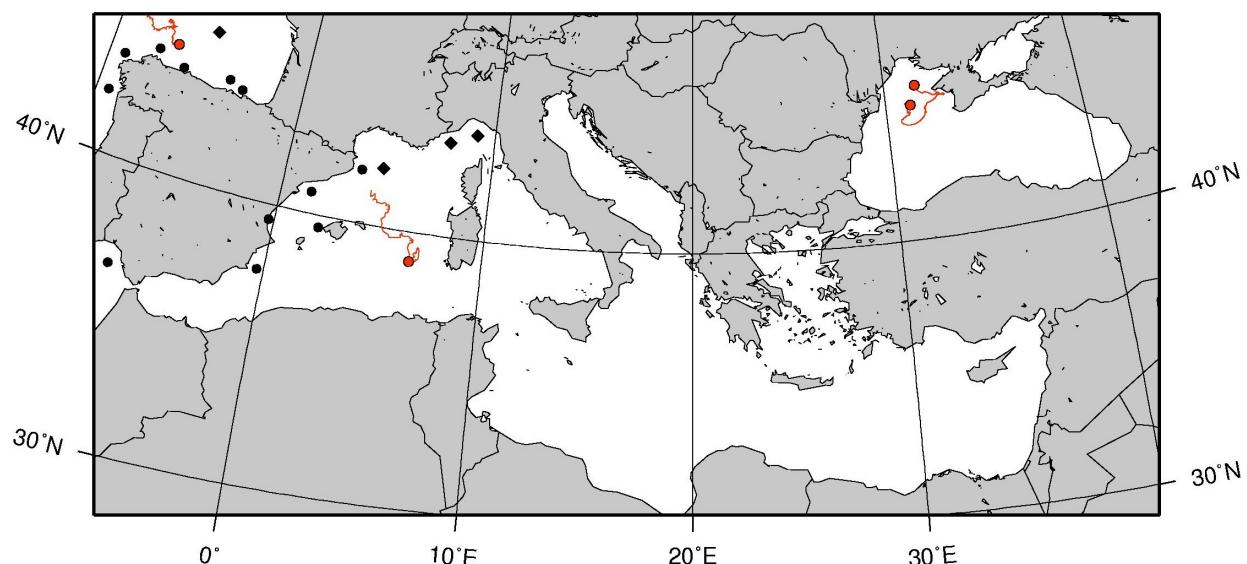
## DATA BUOY MONTHLY REPORT

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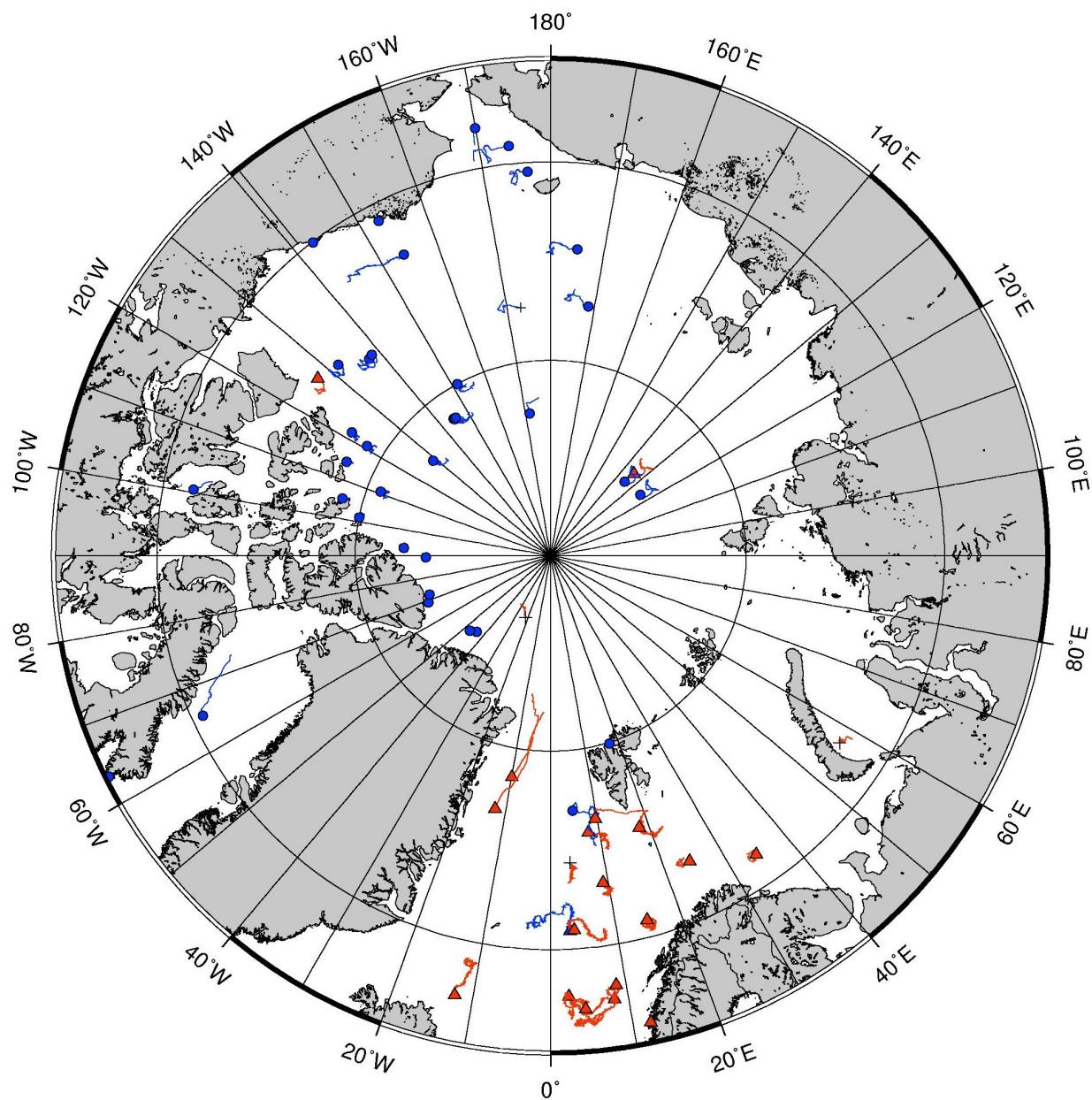
December 2009 - Operating data buoys in the North Atlantic  
Drifting buoy trajectories and moored buoy positions

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December 2009 - Operating data buoys in the Mediterranean Sea  
Drifting buoy trajectories and moored buoy positions

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December 2009 - Drifting buoy trajectories in Artic Ocean  
and adjacent seas

# E-SURFMAR DB Monthly Report

## December 2009

### DRIFTING BUOYS

#### Network status

By the end of December, **97 drifting buoys**, reporting air pressure or wind, at least onto the GTS, were in operation in the EUCOS area in the frame of E-SURFMAR. Out of these:

1. 7 were Argos SVP-Bs;
2. 56 were Iridium SVP-Bs.

The remaining buoys were 30 buoys owned by NOAA and upgraded with barometers by E-SURFMAR, and four SVP-BW drifters provided by Environment Canada. Out of these, only two were reporting wind observations by the end of December.

One Iceb buoy and 5 SVP-B drifters funded by EUMETNET were operating in the north of the Arctic circle, by the end of the month. These SVP-Bs include three drifters out of the twelve funded by the surplus received from E-ASAP in 2008, which were deployed in August and September.

Information about the availability of buoys for future deployments may be get from the E-SURFMAR wikisite (working area) at: [http://esurfmars.meteo.fr/wikisurf-wa/index.php/Availability\\_of\\_drifting\\_buoys](http://esurfmars.meteo.fr/wikisurf-wa/index.php/Availability_of_drifting_buoys)

The GTS data transmission of Iridium buoys suffered from one interruption on the 1<sup>st</sup> of December. Some disturbances also occurred on the 30<sup>th</sup>-31<sup>st</sup>. Despite these two events, the Iridium transmission remains significantly most efficient than Argos.

#### Drifting buoys - New deployments

WMO	Telcom	Typ	Ow	Dep_Date	DepLat	DepLon	From	Comment
41984	89825	TSB	UP	20091224	36.8	-69.6	Boston	
41986	89828	TSB	UP	20091224	36.3	-69.2	Boston	
44547	650800	MSB	EU	20091215	56.4	-38.0	Reykjavik	Iridium
44548	540840	MSB	EU	20091216	52.0	-45.0	Reykjavik	Iridium
44549	343680	MSB	EU	20091216	50.5	-47.5	Reykjavik	Iridium
44550	549830	MSB	EU	20091217	48.7	-50.0	Reykjavik	Iridium
44933	89826	TSB	UP	20091219	38.0	-70.7	Boston	
44935	89824	TSB	UP	20091219	37.4	-70.0	Boston	
62519	342700	MSB	EU	20091215	58.4	-35.0	Reykjavik	Iridium

#### Supplementary drifting buoys (e.g. in Arctic) by the end of the month

WMO	Telcom	Typ	Ow	nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon	Age
25621	76826	MSB	EU	743	-	-	X	X	-	-	-	X	-	-	-	T	0112-3112	78.51	-10.03	459
25622	76825	MSB	EU	745	-	-	X	X	-	-	-	X	-	-	-	T	0112-3112	76.80	-12.40	455
25624	96849	MSB	EU	743	-	-	X	X	-	-	-	X	-	-	-	T	0112-3112	84.03	134.44	127
48665	73389	MIB	EU	757	-	X	X	X	-	-	-	-	-	-	-	T	0112-3112	75.08	-127.24	851
63638	96848	MSB	EU	744	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	72.92	24.46	151
63641	96851	MSB	EU	745	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	71.56	34.59	105

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**Operating drifting buoys in North Atlantic by the end of the month**

WMO	Telcom	Typ	Ow	nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon	Age
13972	349680	MSB	EU	734	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	33.94	-14.83	228
13975	59530	MSB	EU	740	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	24.65	-33.67	210
13976	50540	MSB	EU	736	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	24.29	-32.39	209
25621	76826	MSB	EU	230	-	-	X	X	-	-	-	X	-	-	-	T	2212-3112	78.51	-10.03	458
25622	76825	MSB	EU	402	-	-	X	X	-	-	-	X	-	-	-	T	1512-3112	76.80	-12.40	456
41557	83404	TSB	UP	753	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	33.92	-20.41	345
41558	83394	TSB	UP	760	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	33.31	-35.93	345
41559	83390	TSB	UP	756	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	32.68	-24.88	345
41571	83391	TSB	UP	764	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	29.07	-37.99	345
41596	53610	MSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	24.53	-44.25	35
41597	58610	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	23.74	-49.64	35
41716	83401	TSB	UP	759	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	38.55	-20.59	348
41717	83402	TSB	UP	757	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	29.81	-34.66	347
41718	83403	TSB	UP	758	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	36.82	-14.94	346
41719	83392	TSB	UP	758	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	32.73	-27.32	346
41958	70824	TSB	UP	713	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	30.91	-37.88	985
41984	89825	TSB	UP	78	-	-	X	X	X	-	-	X	-	-	-	L	2812-3112	37.35	-67.85	8
41986	89828	TSB	UP	78	-	-	X	X	X	-	-	X	-	-	-	L	2812-3112	36.53	-70.03	8
44546	55610	MSB	EU	742	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	49.02	-26.96	230
44547	650800	MSB	EU	390	-	-	X	X	X	-	-	X	-	-	-	T	1512-3112	55.58	-38.94	17
44548	540840	MSB	EU	367	-	-	X	X	X	-	-	X	-	-	-	T	1612-3112	52.36	-45.50	16
44549	343680	MSB	EU	348	-	-	X	X	X	-	-	X	-	-	-	T	1712-3112	50.62	-47.88	16
44550	549830	MSB	EU	345	-	-	X	X	X	-	-	X	-	-	-	T	1712-3112	47.13	-46.94	15
44606	547440	MSB	EU	738	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	36.30	-38.15	280
44607	540850	MSB	EU	737	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	62.76	-31.19	203
44608	541830	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	56.26	-40.98	203
44609	50620	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	44.12	-46.77	201
44610	653800	MSB	EU	739	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	56.88	-31.09	202
44611	143100	MSB	EU	734	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	53.56	-48.97	110
44613	658800	MSB	EU	739	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	63.47	-33.00	232
44614	347690	MSB	EU	738	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	56.91	-42.91	109
44615	58600	MSB	EU	737	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	39.17	-46.90	39
44616	346680	MSB	EU	740	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	64.04	-32.10	108
44617	54610	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	47.13	-30.95	103
44621	52610	MSB	EU	739	-	-	X	X	S	-	-	X	-	-	-	T	0112-3112	48.36	-41.10	39
44622	349690	MSB	EU	736	-	-	X	X	-	-	-	X	-	-	-	T	0112-3112	45.31	-27.00	367
44626	348690	MSB	EU	737	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	33.57	-28.26	334
44629	544440	MSB	EU	739	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	36.18	-39.24	40
44636	79158	MSW	CA	767	X	-	X	X	X	-	-	X	-	-	-	L	0112-3112	39.69	-53.92	201
44637	79159	MSW	CA	780	X	-	X	X	X	-	-	X	-	-	-	L	0112-3112	40.23	-50.16	204
44643	87675	MSW	CA	749	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	41.85	-39.62	137
44645	87679	MSW	CA	744	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	45.46	-24.73	138
44721	659800	MSB	EU	738	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	45.48	-39.89	103
44723	76817	MSB	EU	743	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	44.48	-23.05	318
44746	540430	MSB	EU	737	-	-	X	X	S	-	-	X	-	-	-	T	0112-3112	44.01	-48.64	93
44765	76810	MSB	EU	742	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	48.91	-16.57	480
44766	76811	MSB	EU	743	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	56.85	-22.61	480
44769	522430	TSB	EU	742	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	53.83	-46.44	53
44771	76812	MSB	EU	743	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	60.71	-26.67	480
44772	51620	MSB	EU	737	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	40.11	-51.58	38
44776	345680	MSB	EU	740	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	53.08	-18.77	390
44777	340700	MSB	EU	738	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	61.02	-38.29	389
44780	543830	MSB	EU	737	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	47.85	-4.66	367
44836	70829	TSB	UP	716	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	24.75	-60.23	954
44839	70831	TSB	UP	723	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	34.60	-23.69	952
44840	70832	TSB	UP	713	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	46.38	-19.24	951
44841	83433	TSB	UP	762	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	50.67	-16.49	318
44845	83395	TSB	UP	757	-	-	X	X	-	-	-	X	-	-	-	L	0112-3112	37.47	-30.80	296
44849	83397	TSB	UP	761	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	30.97	-71.22	296
44878	83398	TSB	UP	760	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	34.66	-34.48	295
44879	83399	TSB	UP	752	-	-	X	X	-	-	-	X	-	-	-	L	0112-3112	45.31	-13.99	294
44882	83396	TSB	UP	755	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	30.46	-23.32	295
44903	70822	TSB	UP	739	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	24.49	-49.27	926
44905	70818	TSB	UP	734	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	32.41	-72.03	922
44912	70819	TSB	UP	729	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	23.84	-60.87	923
44915	70838	TSB	UP	708	-	-	X	X	S	-	-	X	-	-	-	L	0112-3112	26.96	-48.78	804
44918	63837	TSB	UP	717	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	27.92	-40.68	1274
44919	63838	TSB	UP	712	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	31.68	-61.60	1273
44920	63839	TSB	UP	721	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	29.87	-41.38	1272
44933	89826	TSB	UP	244	-	-	X	X	X	-	-	X	-	-	-	L	2112-3112	39.74	-64.88	13
44935	89824	TSB	UP	78	-	-	X	X	X	-	-	X	-	-	-	L	2812-3112	38.20	-62.09	13

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62511	546830	MSB	EU	738	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	32.00	-13.89	336
62512	549820	MSB	EU	736	-	-	X	X	-	-	-	X	-	-	-	T	0112-3112	34.33	-21.54	336
62513	76814	MSB	EU	738	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	44.08	-16.06	319
62514	76816	MSB	EU	739	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	50.84	-6.93	318
62515	549840	MSB	EU	738	-	-	X	X	-	-	-	X	-	-	-	T	0112-3112	41.25	-16.70	279
62517	541840	MSB	EU	739	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	42.83	-18.99	278
62518	341690	MSB	EU	734	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	26.25	-26.12	228
62519	342700	MSB	EU	397	-	-	X	X	X	-	-	X	-	-	-	T	1512-3112	58.37	-37.73	17
62520	650810	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	30.17	-28.14	211
62562	542830	MSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	30.05	-24.41	370
62694	657800	MSB	EU	736	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	41.35	-18.18	42
62695	651800	MSB	EU	739	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	36.80	-23.76	39
62905	70820	TSB	UP	708	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	27.48	-51.09	928
63536	51610	MSB	EU	734	-	-	X	X	-	-	-	X	-	-	-	T	0112-3112	65.88	12.10	119
63538	52540	MSB	EU	736	-	-	X	X	-	-	-	X	-	-	-	T	0112-3112	67.33	8.21	136
63539	57540	MSB	EU	737	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	70.92	2.96	169
63551	38250	MSB	EU	741	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	75.76	7.74	333
63554	59610	MSB	EU	742	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	68.01	8.64	66
63643	656800	MSB	EU	738	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	67.67	2.36	57
63644	655810	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	67.00	4.41	36
63666	76819	MSB	EU	744	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	75.41	18.00	542
63669	36220	MSB	EU	738	-	-	X	X	-	-	-	X	-	-	-	T	0112-3112	70.95	3.62	296
63670	36240	MSB	EU	739	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	73.14	9.06	249
63671	38240	MSB	EU	739	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	70.86	14.80	220
64517	34250	MSB	EU	736	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	67.26	-12.33	575
64522	652810	MSB	EU	741	-	-	X	X	S	-	-	X	-	-	-	T	0112-3112	59.92	-58.21	233
64524	655800	MSB	EU	738	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	63.59	6.71	231
64606	654800	MSB	EU	738	-	-	X	X	-	-	-	X	-	-	-	T	0112-3112	51.63	-50.03	395

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**Drifting buoys which ceased to be operational**

WMO	Telcom	Typ	Ow	End_Date	Lat	Lon	Age	Cause
25620	76823	MSB	EU	20091221	86.6	-22.2	451	Faded
41715	83400	TSB	UP	20091208	44.1	-24.0	325	AP failed
44628	656810	MSB	EU	20091218	46.4	-29.8	90	Unknown
44638	79157	MSW	CA	20091222	37.7	-34.5	373	Faded
44630	68046	MSB	EU	20091231	28.6	-30.0	719	Faded
44774	56610	MSB	EU	20091219	57.0	-30.2	385	Faded
63640	96842	MSB	EU	20091225	76.4	9.6	99	AP failed
63661	76808	MSB	EU	20091214	72.5	57.1	525	Faded
63668	36250	MSB	EU	20091226	74.3	3.6	447	Faded

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**Non-operating drifting buoys reporting GTS data**

WMO	Telcom	Typ	Ow	nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon	Age
13973	271780	MSB	EU	710	-	-	-	-	X	-	-	X	-	-	-	T	0112-3112	27.24	-24.60	224
41715	83400	TSB	UP	754	-	-	S	S	X	-	-	X	-	-	-	L	0112-3112	44.10	-24.01	348
44624	346690	MSB	EU	737	-	-	-	-	X	-	-	X	-	-	-	T	0112-3112	40.97	-11.43	332
44627	344690	MSB	EU	737	-	-	-	-	X	-	-	X	-	-	-	T	0112-3112	32.69	-23.89	334
44838	83432	TSB	UP	756	-	-	-	-	X	-	-	X	-	-	-	L	0112-3112	47.97	-33.68	318
63640	96842	MSB	EU	743	-	-	S	S	X	-	-	X	-	-	-	T	0112-3112	76.39	9.65	105
63672	94731	MSB	EU	743	-	-	-	-	X	-	-	X	-	-	-	T	0112-3112	74.85	-3.85	190

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

WMO	Telcom	Typ	Ow	nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon
13567	71024	AOML		747	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	30.74	-17.03
13568	71025	AOML		750	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	30.85	-28.87
13569	71026	AOML		749	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	36.15	-14.77
13570	71028	AOML		746	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	34.33	-12.33
13571	83484	AOML		745	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	32.65	-21.40
13910	83482	AOML		744	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	35.38	-10.02
31739	72580	LODY		767	-	-	X	X	X	-	-	X	-	-	X	T	0112-3112	7.11	-31.33
31858	69005	INPE		736	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	10.60	-66.94

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31861	68530	CMM	777	-	-	X	X	X	-	-	X	-	-	X	T	0112-3112	5.07	-38.30
41938	71027	AOML	748	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	28.68	-31.44
41968	93013	AOML	657	-	-	X	-	X	-	-	X	-	-	-	L	0112-3112	28.66	-60.21
41972	93014	AOML	665	-	-	X	-	X	-	-	X	-	-	-	L	0112-3112	30.64	-50.43
41974	93015	AOML	659	-	-	X	-	X	-	-	X	-	-	-	L	0112-3112	24.73	-65.24
41975	93016	AOML	648	-	-	X	-	X	-	-	X	-	-	-	L	0112-3112	28.48	-49.48
41981	93017	AOML	660	-	-	X	-	X	-	-	X	-	-	-	L	0112-3112	27.78	-56.08
41986	89828	AOML	70	-	-	X	X	X	-	-	X	-	-	-	L	2812-3112	36.49	-69.99
44641	MSC		701	-	-	X	X	X	-	-	X	-	-	-	O	0212-3112	44.70	-66.75
44884	79224	AOML	766	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	37.22	-62.21
44885	79228	AOML	765	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	33.78	-48.93
44890	79234	AOML	755	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	36.37	-50.97
44910	71044	AOML	751	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	31.71	-29.78
48593	MSC		704	-	-	X	X	X	-	-	-	-	-	-	O	0212-3112	65.08	-63.44
48594	MSC		483	-	-	X	X	X	-	-	-	-	-	-	O	1112-3112	70.55	-65.34
61503	82534	CLS	636	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	44.91	31.28
61504	82537	CLS	669	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	45.59	31.62
61688	82233	CLS	632	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	38.95	6.59
62505	49678	EUME	757	-	-	X	X	X	-	-	X	-	-	-	T	0112-3112	44.42	-6.78
62901	83478	AOML	747	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	28.21	-14.85
62902	83479	AOML	744	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	33.39	-12.70
62908	83480	AOML	746	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	38.53	-19.19
62929	83327	AOML	759	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	18.80	-39.63
62937	75299	AOML	739	-	-	X	-	X	-	-	X	-	-	-	L	0112-3112	62.12	-9.08
62938	83483	AOML	725	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	37.51	-16.43
62939	83481	AOML	747	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	39.04	-24.25
62941	83476	AOML	748	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	36.46	-12.82
63529	26914	?????	2565	-	-	X	-	X	-	-	-	-	-	-	T	0112-3112	79.93	17.36
63573	78691	AOML	775	-	-	X	X	X	-	-	X	-	-	-	L	0112-3112	76.95	4.97

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**MOORED BUOYS**  
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Operating EGOS moored buoys (K-pattern) + Italia-1

WMO	Name	nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon
61001	Cote d'Azur	743	X	X	X	X	X	X	X	-	-	X	-	O	0112-3112	43.40	7.80
<b>61002 Lion</b>		<b>744</b>	-	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>X</b>	-	-	<b>X</b>	-	<b>O</b>	<b>0112-3112</b>	<b>42.10</b>	<b>4.70</b>
61010	Italia-1	247	X	X	X	-	X	-	-	-	-	X	-	O	0112-3112	43.80	9.10
62001	Gascogne	742	X	X	X	X	X	X	X	-	-	X	-	O	0112-3112	45.30	-5.00
62029	K1	743	X	X	X	X	X	-	-	-	-	X	-	O	0112-3112	48.70	-12.50
62052	Ushant	-	-	-	-	-	-	-	-	-	-	-	-	-		48.50	-5.80
62081	K2	742	X	X	X	X	X	X	X	-	-	X	-	O	0112-3112	51.00	-13.20
62090	M1	-	-	-	-	-	-	-	-	-	-	-	-	-		53.10	-11.20
62091	M2	509	X	X	X	X	X	X	X	-	-	X	-	O	0612-3112	53.50	-5.40
62092	M3	744	X	X	X	X	X	X	X	-	-	X	-	O	0112-3112	51.20	-10.50
62093	M4	744	X	X	X	X	X	X	X	-	-	X	-	O	0112-3112	54.70	-9.10
62094	M5	725	S	X	X	X	X	X	X	-	-	X	-	O	0112-3112	51.70	-6.70
<b>62095 M6</b>		<b>746</b>	<b>X</b>	-	-	<b>X</b>	-	<b>O</b>	<b>0112-3112</b>	<b>53.10</b>	<b>-15.90</b>						
62105	K4	727	X	X	X	X	X	X	X	-	-	X	-	O	0112-3112	55.80	-11.40
62108	K3	-	-	-	-	-	-	-	-	-	-	-	-	-		53.50	-19.50
62163	Brittany	742	X	X	X	X	X	X	X	-	-	X	-	O	0112-3112	47.50	-8.40
<b>64045 K5</b>		<b>745</b>	<b>X</b>	-	-	<b>X</b>	-	<b>O</b>	<b>0112-3112</b>	<b>59.10</b>	<b>-11.70</b>						
64046	K7	751	X	X	X	X	X	X	X	-	-	X	-	O	0112-3112	60.70	-5.20

Comments:

- EUCOS moored buoys are presented in bold characters.

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**Operating EGOS moored buoys (Spanish SeaWatch and WaveScan)**

WMO	Name	nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon	
13130	Gran Canaria	574	X	X	X	-	X	X	X	-	-	-	-	O	0112-3112	28.18	-15.82	
13131	Tenerife Sur	573	X	X	X	-	X	X	X	-	-	-	-	O	0112-3112	28.00	-16.58	
61196	C. Begur	574	X	X	X	-	-	X	X	-	-	-	-	O	0112-3112	41.92	3.65	
61197	Mahon	573	X	X	X	-	-	-	X	X	-	-	-	O	0112-3112	39.72	4.42	
61198	C. de Gata	31	-	-	-	-	-	-	-	-	-	-	-		0112-0212	36.57	-2.33	
61280	Tarragona	570	X	X	X	-	X	X	X	-	-	-	X	O	0112-3112	40.77	1.47	
61281	Valencia	562	X	X	X	-	X	X	X	-	-	-	X	O	0112-3112	39.47	-0.27	
61417	C. de Palos	495	X	X	X	-	-	X	X	X	-	-	-	X	O	0112-3112	37.65	-0.32
61430	Dragonera	571	-	X	X	-	-	X	X	-	-	-	-	O	0112-3112	39.56	2.11	
62024	Bilbao-Visc.	573	X	X	X	-	X	X	X	-	-	-	X	O	0112-3112	43.63	-3.03	
62025	C. de Penas	511	X	X	X	-	X	X	X	-	-	-	X	O	0112-3112	43.73	-6.17	
62082	E. de Barres	568	X	X	X	-	X	X	X	-	-	-	X	O	0112-3112	44.07	-7.62	
62083	Villano-Sis.	340	X	X	X	-	X	X	X	-	-	-	X	O	0112-1112	43.48	-9.22	
<b>62084</b>	<b>C. Silleiro</b>	<b>369</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>-</b>	<b>X</b>	<b>X</b>	<b>X</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>X</b>	<b>O</b>	<b>1012-3112</b>	<b>42.12</b>	<b>-9.40</b>	
62085	G. de Cadiz	578	X	X	X	-	X	X	X	-	-	-	X	O	0112-3112	36.48	-6.97	
	0 Santander		X	X	X	-	X	X	X	-	-	-	-	O		43.84	-3.77	

Comments:

- The EUCOS buoy is presented in bold characters.
- The transmission of the network data suffered from two interruptions in December:  
from 19<sup>th</sup> to 21<sup>st</sup> then from 25<sup>th</sup> to 28<sup>th</sup>.

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**Other 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
13308	East Atlantic	-	-	-	-	-	-	-	-	-	-	-	-			15.00	-38.00
41040	West Atlantic	744	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	14.50	-53.00
41041	Mid. Atlantic	744	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	14.50	-46.00
41043	Porto Rico	737	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	21.00	-65.00
41046		-	-	-	-	-	-	-	-	-	-	-	-			23.90	-70.90
41047		-	-	-	-	-	-	-	-	-	-	-	-			27.50	-71.50
41048		691	X	X	X	X	X	X	-	-	-	X	-	O	0112-2912	32.00	-69.60
41100	E Guadeloupe		-	-	-	-	-	-	-	-	-	-	-			15.90	-57.90
41101	E Martinique	717	X	X	X	X	X	X	-	-	-	X	-	O	0112-3112	14.60	-56.20
42059	Caraibes		-	-	-	-	-	-	-	-	-	-	-			15.00	-67.50
44008	A Nantucket	131	S	S	S	S	S	S	-	-	-	S	-		0112-0612	40.50	-69.40
44011	D Georges Bk		-	-	-	-	-	-	-	-	-	-	-			41.10	-66.60
44018	SE Cape Cod	737	X	X	X	X	-	X	-	-	-	X	-	O	0112-3112	41.30	-69.30
44024	NNE Channel	713	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	42.30	-65.90
44137	E Scotia Sl.	742	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	42.30	-62.00
44138	SW Gd Banks	741	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	44.30	-53.60
44139	Beanquereau	740	X	-	X	X	X	X	-	-	-	-	-	O	0112-3112	44.30	-57.10
44140	Tail of Bk	734	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	43.80	-51.70
44141	Larentian F	742	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	43.00	-58.00
44150	La Have Bk	740	X	X	X	X	X	X	-	-	-	-	-	O	0112-3112	42.50	-64.00

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**Buoy-QC statistics from Meteo-France model outputs**

*Datend* : Date of the last value received on GTS  
*Recv* : Total number of values received on GTS  
*GE* : Number of Gross Errors (excluded from bias and sd computations)  
*bias* : Mean differences between observation values and co-located model output values  
*Std* : Standard deviation of differences

**Air Pressure (hPa), drifting buoys, December 2009**

<b>Datend</b>	<b>WMO</b>	<b>Telcom</b>	<b>Recv</b>	<b>GE</b>	<b>Bias</b>	<b>Std</b>
20091231	13972	349680	734	0	0.3	0.5
20091231	13975	59530	740	0	-0.2	0.4
20091231	13976	50540	736	0	0.5	0.4
20091221	25620	76823	482	0	-0.6	0.5
20091231	25621	76826	742	0	0.5	0.7
20091231	25622	76825	745	0	0.6	0.7
20091231	25624	96849	743	0	-0.1	0.5
20091231	41557	83404	707	0	-0.3	0.6
20091231	41558	83394	730	0	0.1	0.5
20091231	41559	83390	712	0	-0.3	0.5
20091231	41571	83391	723	0	-0.3	0.5
20091231	41596	53610	733	0	0.5	0.5
20091231	41597	58610	735	0	0.3	0.5
20091208	41715	83400	183	3	0.8	3.4
20091231	41716	83401	699	0	-0.1	0.7
20091231	41717	83402	716	0	-0.1	0.5
20091231	41718	83403	719	0	-0.3	0.7
20091231	41719	83392	724	2	-0.0	0.6
20091231	41958	70824	688	0	0.2	0.5
20091231	41984	89825	77	0	0.5	0.8
20091231	41986	89828	78	0	0.3	0.8
20091231	44546	55610	742	0	0.7	0.7
20091231	44547	650800	390	0	0.0	0.5
20091231	44548	540840	367	0	0.3	0.6
20091231	44549	343680	348	0	0.3	0.7
20091231	44550	549830	345	0	0.5	0.9
20091231	44606	547440	738	0	-0.7	0.5
20091231	44607	540850	737	0	0.5	0.6
20091231	44608	541830	735	0	0.3	0.7
20091231	44609	50620	735	0	0.5	1.0
20091231	44610	653800	739	0	0.4	0.7
20091231	44611	143100	734	0	0.4	0.7
20091231	44613	658800	739	0	0.5	0.7
<b>20091231</b>	<b>44614</b>	<b>347690</b>	<b>738</b>	<b>0</b>	<b>1.0</b>	<b>0.6</b>
20091231	44615	58600	737	5	-0.4	1.0
20091231	44616	346680	740	0	0.2	0.8
20091231	44617	54610	735	2	-0.9	0.9
20091231	44621	52610	739	0	0.2	0.8
20091231	44622	349690	736	0	-0.1	0.8
20091231	44626	348690	737	0	0.7	0.5
20091218	44628	656810	425	0	-0.3	1.0
20091231	44629	544440	739	0	-0.1	0.6
20091231	44636	79158	692	3	0.7	1.1
20091231	44637	79159	689	3	0.5	1.1
20091221	44638	79157	416	1	0.4	0.6
<b>20091231</b>	<b>44643</b>	<b>87675</b>	<b>744</b>	<b>19</b>	<b>0.6</b>	<b>1.1</b>
<b>20091231</b>	<b>44645</b>	<b>87679</b>	<b>740</b>	<b>32</b>	<b>0.4</b>	<b>1.4</b>
20091231	44721	659800	738	0	-0.6	1.0
20091231	44723	76817	742	0	-0.1	0.9
20091231	44746	540430	737	1	0.4	1.0
20091231	44765	76810	742	0	-0.0	0.7
20091231	44766	76811	743	0	0.3	0.8
20091231	44769	522430	742	0	-0.1	0.6
20091231	44771	76812	743	0	0.2	0.6
<b>20091231</b>	<b>44772</b>	<b>51620</b>	<b>737</b>	<b>0</b>	<b>-1.4</b>	<b>0.8</b>
20091219	44774	56610	618	0	0.0	1.0
20091231	44776	345680	740	0	0.7	0.8
20091231	44777	340700	738	2	0.4	0.7
<b>20091231</b>	<b>44780</b>	<b>543830</b>	<b>737</b>	<b>17</b>	<b>0.7</b>	<b>0.6</b>
20091231	44836	70829	692	1	0.1	0.6
20091231	44839	70831	684	0	-0.4	0.5

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20091231	44840	70832	664	1	0.1	1.1
20091231	44841	83433	703	1	-0.0	0.8
20091231	44845	83395	724	0	-0.3	0.8
20091231	44849	83397	727	0	-0.1	0.7
20091231	44878	83398	719	0	-0.1	0.5
20091231	44879	83399	705	0	-0.0	0.7
20091231	44882	83396	719	0	-0.4	0.5
20091231	44903	70822	692	0	-0.0	0.5
20091231	44905	70818	695	0	0.3	0.7
20091231	44912	70819	701	0	-0.4	0.6
20091231	44915	70838	679	0	-0.0	0.6
20091231	44918	63837	686	0	-0.3	0.5
20091231	44919	63838	689	0	-0.2	0.7
20091231	44920	63839	701	0	-0.1	0.5
20091231	44933	89826	244	0	0.4	0.9
20091231	44935	89824	78	0	0.2	0.8
20091231	48665	73389	723	0	-0.0	0.6
20091231	62511	546830	738	0	0.1	0.5
20091231	62512	549820	736	0	0.1	0.6
20091231	62513	76814	738	0	-0.0	0.6
20091231	62514	76816	738	0	0.0	0.7
20091231	62515	549840	738	0	0.2	0.8
20091231	62517	541840	739	0	-0.3	0.8
20091231	62518	341690	734	0	0.3	0.5
20091231	62519	342700	397	0	0.4	0.5
20091231	62520	650810	735	0	0.4	0.5
20091231	62562	542830	733	0	0.5	0.5
20091231	62694	657800	736	0	0.1	0.7
20091231	62695	651800	739	0	0.0	0.6
20091231	62905	70820	683	0	0.4	0.5
20091231	63536	51610	734	0	0.1	0.4
20091231	63538	52640	736	0	0.4	0.6
20091231	63539	57540	737	0	0.3	0.6
20091231	63551	38250	741	0	-0.6	0.5
20091231	63554	59610	742	0	0.2	0.7
20091231	63638	96848	744	1	0.5	0.5
<b>20091228</b>	<b>63640</b>	<b>96842</b>	<b>659</b>	<b>46</b>	<b>0.2</b>	<b>1.1</b>
20091231	63641	96851	745	1	0.3	0.6
20091231	63643	656800	738	0	0.2	0.5
20091231	63644	655810	735	0	0.1	0.5
<b>20091214</b>	<b>63661</b>	<b>76808</b>	<b>314</b>	<b>19</b>	<b>0.6</b>	<b>2.6</b>
20091231	63666	76819	744	0	0.1	1.2
20091226	63668	36250	625	0	0.3	0.5
20091231	63669	36220	738	0	0.3	0.5
20091231	63670	36240	739	0	0.4	0.4
20091231	63671	38240	739	0	-0.2	0.5
<b>20091231</b>	<b>64517</b>	<b>34250</b>	<b>736</b>	<b>15</b>	<b>0.7</b>	<b>1.7</b>
20091231	64522	652810	741	0	0.4	0.7
20091231	64524	655800	738	0	0.4	0.5
20091231	64606	654800	738	0	-0.7	0.7

**Air Pressure (hPa), moored buoys, December 2009**

Datend	WMO	Telcom	Recv'd	GE	Bias	Std
20091231	13130		574	0	0.1	0.8
20091231	13131		573	0	0.1	0.9
20091231	61001		742	0	-0.3	0.7
20091231	61002		744	0	-0.4	0.6
<b>20091231</b>	<b>61010</b>		<b>247</b>	<b>21</b>	<b>-1.3</b>	<b>0.7</b>
20091231	61196		574	0	-0.4	0.9
20091231	61197		573	0	0.2	0.8
20091202	61198		31	0	-0.5	1.3
20091231	61280		570	0	-0.1	0.8
20091231	61281		562	0	-1.0	1.4
20091231	61417		495	0	-0.1	0.8
20091231	61430		571	0	0.1	0.9
20091231	62001		742	0	-0.1	0.8
20091231	62024		573	0	0.2	0.8
20091231	62025		511	0	0.1	0.9
<b>20091231</b>	<b>62029</b>		<b>741</b>	<b>27</b>	<b>-0.2</b>	<b>0.6</b>
20091231	62081		742	0	-0.3	0.8
20091231	62082		568	0	0.5	1.5
20091231	62083		340	0	0.1	0.7
20091231	62084		369	0	-0.2	1.0

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20091231	62085	578	0	0.2	0.8
20091231	62091	509	0	-0.4	1.6
20091231	62092	741	0	-0.3	1.0
20091231	62093	729	0	-0.3	0.6
20091231	62094	703	1	-0.1	0.7
<b>20091231</b>	<b>62095</b>	<b>742</b>	<b>38</b>	<b>0.1</b>	<b>2.4</b>
20091231	62105	727	0	-0.2	0.7
20091231	62163	741	0	-0.1	0.5
20091231	64045	743	0	0.0	0.9
20091231	64046	701	0	0.0	0.6

**Air Temperature (C), drifting buoys, December 2009**

Datend	WMO	Telcom	Recv'd	GE	Bias	Std
<b>20091231</b>	<b>48665</b>	<b>73389</b>	<b>723</b>	<b>5</b>	<b>2.5</b>	<b>4.6</b>

**Air Temperature (C), moored buoys, December 2009**

Datend	WMO	Telcom	Recv'd	GE	Bias	Std
20091231	13130		572	0	-0.2	0.6
20091231	13131		570	0	-0.9	0.6
20091231	61001		743	0	-0.2	1.0
20091231	61002		744	0	-0.4	1.0
20091231	61010		247	0	-0.7	1.4
20091231	61196		567	0	1.0	1.0
20091231	61197		573	0	-0.2	0.8
<b>20091202</b>	<b>61198</b>		<b>20</b>	<b>0</b>	<b>-1.5</b>	<b>2.5</b>
20091231	61280		567	0	0.5	0.6
20091231	61281		559	0	-0.2	1.1
20091231	61417		477	0	0.5	0.8
20091231	61430		569	0	0.3	0.7
20091231	62001		742	0	-0.0	0.6
20091231	62024		560	0	0.9	0.8
20091231	62025		501	0	-0.0	1.2
20091231	62029		729	0	-0.4	0.6
20091231	62081		742	0	-0.6	0.6
20091231	62082		561	0	-0.1	0.7
20091231	62083		340	0	-0.2	0.7
20091231	62084		368	0	0.0	0.8
20091231	62085		576	0	-0.3	0.9
20091231	62091		492	0	0.2	0.9
20091231	62092		692	0	-0.2	0.9
20091231	62093		740	0	-0.5	0.6
20091231	62094		724	0	-0.2	0.7
20091231	62095		741	0	-0.1	1.3
20091231	62105		727	0	-0.7	0.6
20091231	62163		741	0	-0.3	0.5
20091231	64045		743	0	-0.5	0.7
20091231	64046		681	0	-0.5	0.8

**Wind direction (deg.), drifting buoys, December 2009**

Datend	WMO	Telcom	Recv'd	GE	Bias	Std
20091231	44636	79158	640	8	-2	18
20091231	44637	79159	597	7	5	19
20091221	44638	79157	399	3	18	21

**Wind direction (deg.), moored buoys, December 2009**

Datend	WMO	Telcom	Recv'd	GE	Bias	Std
20091231	13130		569	22	5	34
20091231	13131		567	55	3	33
20091231	61001		742	101	3	37
<b>20091231</b>	<b>61002</b>		<b>693</b>	<b>98</b>	<b>64</b>	<b>63</b>
<b>20091231</b>	<b>61010</b>		<b>247</b>	<b>30</b>	<b>92</b>	<b>32</b>
20091231	61196		565	29	-1	27

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20091231	61197	566	15	-9	21
<b>20091202</b>	<b>61198</b>	<b>28</b>	<b>10</b>	<b>-83</b>	<b>56</b>
20091231	61280	561	11	-1	24
20091231	61281	557	43	-8	36
20091231	61417	462	18	-3	29
20091231	62001	742	8	3	19
20091231	62024	559	20	3	27
20091231	62025	502	33	-5	35
20091231	62029	717	1	2	14
20091231	62082	559	11	4	21
20091231	62083	335	11	-1	21
20091231	62084	364	1	8	24
20091231	62085	574	43	2	23
20091231	62091	509	22	-7	20
20091231	62092	732	4	3	20
20091231	62093	734	25	5	22
<b>20091210</b>	<b>62094</b>	<b>59</b>	<b>4</b>	<b>-150</b>	<b>34</b>
20091231	62095	728	13	7	22
20091231	62105	727	8	1	16
20091231	62163	741	11	4	18
20091231	64045	741	1	-1	17
20091231	64046	716	0	1	15

**Wind speed rate, drifting buoys, December 2009**

Datend	WMO	Telcom	Recv'd	GE	Rate	Err
20091231	44636	79158	640	2	1.3	2.3
<b>20091231</b>	<b>44637</b>	<b>79159</b>	<b>597</b>	<b>68</b>	<b>1.5</b>	<b>4.0</b>
20091221	44638	79157	399	2	1.1	2.2

**Wind speed rate, moored buoys, December 2009**

Datend	WMO	Telcom	Recv'd	GE	Rate	Err
20091231	13130		569	1	1.5	1.5
20091231	13131		567	0	1.2	1.8
20091231	61001		742	2	2.2	2.5
<b>20091231</b>	<b>61002</b>		<b>693</b>	<b>138</b>	<b>1.0</b>	<b>4.3</b>
<b>20091231</b>	<b>61010</b>		<b>247</b>	<b>43</b>	<b>1.1</b>	<b>3.3</b>
20091231	61196		565	0	1.2	2.0
20091231	61197		566	0	0.9	2.3
20091202	61198		28	1	0.2	7.5
20091231	61280		561	1	0.8	2.8
20091231	61281		557	0	1.7	3.5
20091231	61417		462	0	1.3	2.1
20091231	62001		742	0	1.0	1.8
20091231	62024		559	0	1.1	1.9
20091231	62025		502	1	0.9	4.2
20091231	62029		717	0	0.9	1.6
20091231	62082		559	1	1.0	2.7
20091231	62083		335	0	1.1	2.4
20091231	62084		364	0	1.2	2.7
20091231	62085		574	0	1.1	2.8
20091231	62091		492	0	1.2	2.1
20091231	62092		732	0	1.0	2.1
20091231	62093		734	2	0.8	2.0
<b>20091210</b>	<b>62094</b>		<b>59</b>	<b>39</b>	<b>0.9</b>	<b>1.2</b>
20091231	62095		728	5	1.0	2.5
20091231	62105		727	0	1.2	2.0
20091231	62163		741	0	1.2	2.4
20091231	64045		741	3	0.7	5.4
20091231	64046		716	1	1.0	2.0

**Comments on QC statistics :**

Air pressure

1. A systematic bias was observed on air pressure values reported by Iridium SVP-B drifters 347690 and 051620 (WMO **44614** and **44772**): 1.0 hPa and -1.4 hpa respectively. Corrections have been applied

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since the 5<sup>th</sup> of January 2010. The bias for the second one seems to increase in absolute value (trend).

2. Several Iridium SVP-B drifters reported a few wrong values onto the GTS in December for unknown reasons. It is the case for buoys WMO **44643**, **44645**, **44780** and **64517**. These buoys are however correctly working in general.
3. Argos SVP-B 96842 (WMO **63640**) reported a few wrong values onto the GTS before the transmission was stopped for this parameter on December 28th.
4. Argos SVP-B 76808 (WMO **63661**) reported a few wrong values onto the GTS at the end of its life (December 14th).
5. Moored buoy Italia-1 (WMO **61010**) now monitored by e-SURFMAR, reported a few wrong pressure values in December. A systematic bias of at least 1.0 hPa also appears on comparisons with model outputs (Meteo-France, Met Office,...).
6. Moored buoy K1 (WMO **62029**) is reporting abnormal pressure values (910.2 hPa) from time to time (27 occurrences in December i.e. 3.6% of all reports).
7. Moored buoy M6 (WMO **62095**) reported a few wrong air pressure values onto the GTS in December for an unknown reason.

### Air temperature

8. Air temperature reported by Iceb buoy Argos 73389 (WMO **48665**) still present some differences with the French model outputs but this is probably due to the model which does not reproduce the truth with sufficient accuracy.
9. Air temperature values reported by Spanish moored buoy WMO **61198** were slightly biased before the buoy stopped transmitting on December 2<sup>nd</sup>.

### Wind

10. Wind speed values reported by WOTAN drifter WMO **44637** often appear too high.
11. Lion moored buoy (WMO **61002**) reported many wrong wind speed values at the beginning of December. It also reported fixed wind directions equal to 360 from the 19<sup>th</sup> of December to the 4<sup>th</sup> of January 2010.
12. Wind directions reported by moored buoy Italia-1 (WMO **61010**) still present a systematic bias of about 90 degrees. It seems the buoy also reported wrong wind speed onto the GTS at a few occasions.
13. Many gross errors appear on wind directions reported by moored buoys located in the Mediterranean Sea (WMO **61xxx**) or in coastal areas. This is due to the use of global models for comparisons indeed. These are not sufficiently accurate in those areas.
14. Spanish moored buoy WMO **61198** reported wrong wind values onto the GTS before the transmission stopped on December 2<sup>nd</sup>.
15. Moored buoy M5 (WMO **62094**) reported wrong wind values onto the GTS before the transmission stopped on December 10<sup>th</sup>.

Monthly QC statistics and other data quality control tools are available on line at :  
<http://www.meteo.shom.fr/qctools/>

The working area of the E-SURFMAR website is open at <http://esurfmar.meteo.fr/wikisurf-wa/> . Ask the E-SURFMAR Programme Manager [Pierre.Blouch@meteo.fr](mailto:Pierre.Blouch@meteo.fr) for the password in case you forgot it. Graphs of system performances may be displayed/downloaded at [http://esurfmar.meteo.fr/doc/r/surfmar/others/e-surfmar\\_monitoring.pdf](http://esurfmar.meteo.fr/doc/r/surfmar/others/e-surfmar_monitoring.pdf).