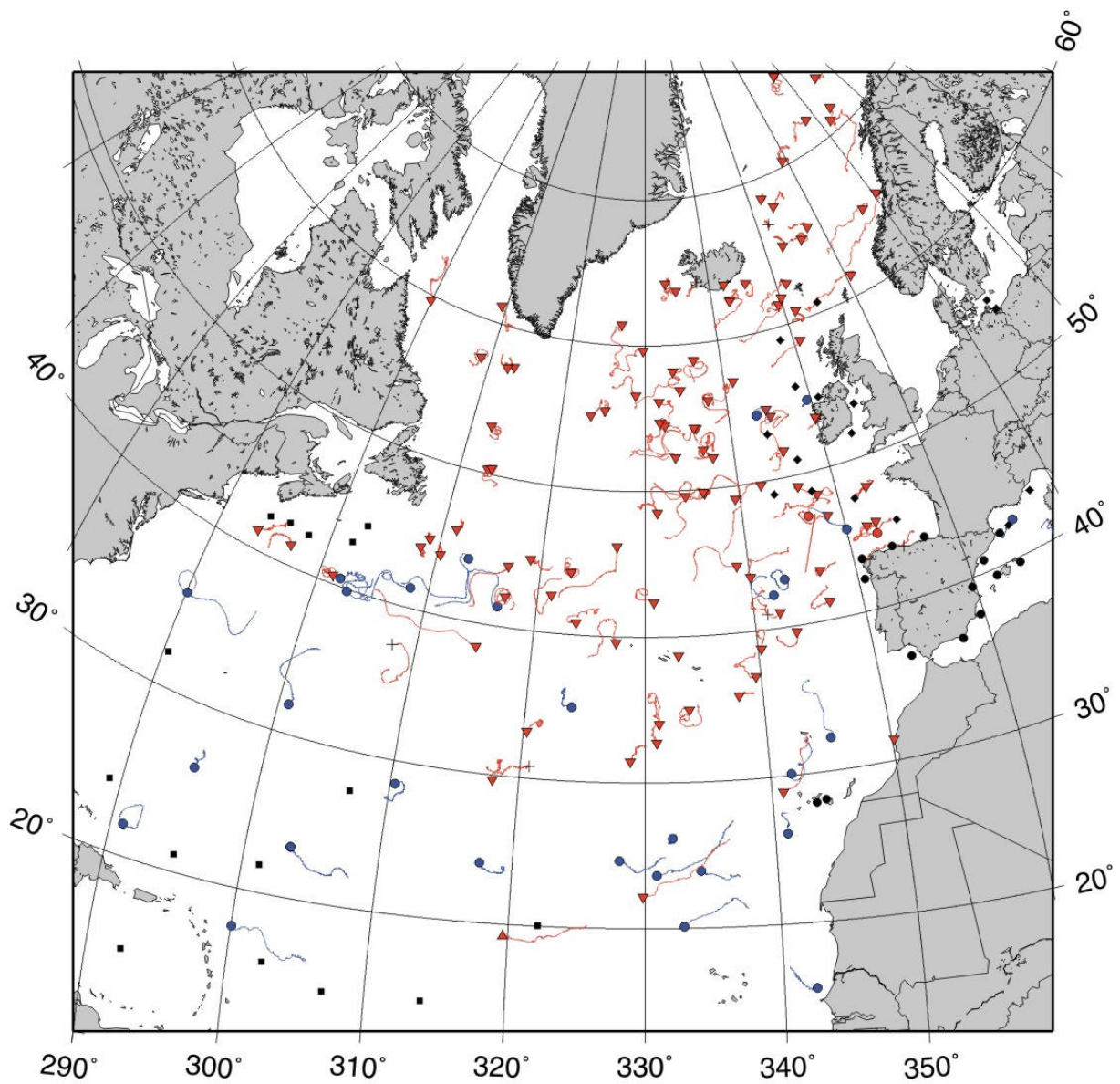
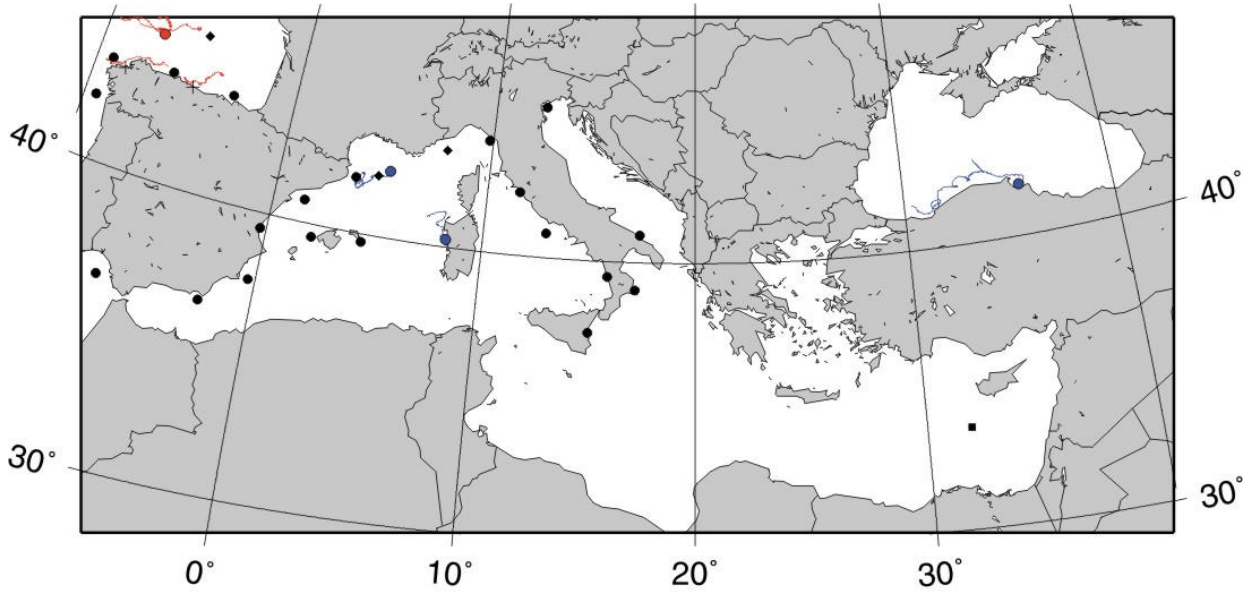


DATA BUOY MONTHLY REPORT

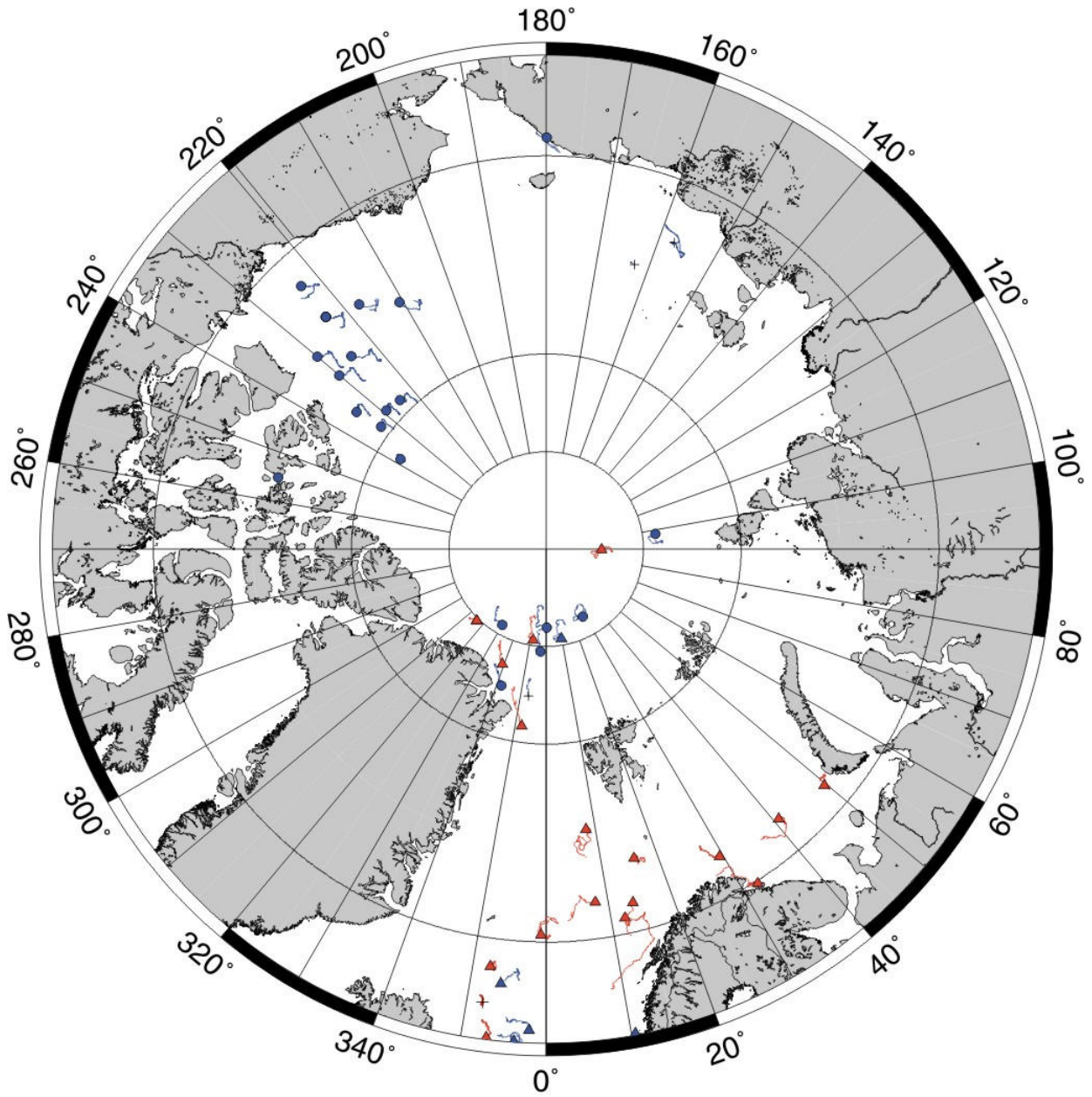
July 2013



July 2013 – Operating data buoys in the North Atlantic
Drifting buoy trajectories: E-SURFMAR (red), others (blue)
Moored buoy positions (black)



July 2013 – Operating data buoys in the Mediterranean Sea
Drifting buoy trajectories and moored buoy positions



July 2013 – Drifting buoy trajectories in Arctic Ocean and adjacent seas: E-SURFMAR (red), others (blue)

DRIFTING BUOYS

Network status

By the end of July, **114 Drifting buoys**, reporting air pressure or wind at least onto the GTS, were in operation in the frame of E-SURFMAR. Out of these, 82 were E-SURFMAR funded Iridium SVP-Bs, including 4 in the Arctic and 11 HRSST-2 buoys. These latter are fitted with accurate digital SST probes. The remaining buoys were: one ICEB buoy in the Arctic, one Argos and 30 Iridium drifters owned by NOAA and upgraded with barometers by E-SURFMAR, and one Iridium drifter operated by Environment Canada.

Out of these, a few ones are ashore or inadvertently anchored in various locations (Terceira I., Iceland and Ireland). Air pressure data are sent onto the GTS if found reliable. This is the case for buoys WMO 4400866, 4400867, 6200679 and 6400619.

A few Iridium buoys are emitting sporadically. This is the case for Metocean buoy WMO 6200554 and Pacific Gyre buoy WMO 4400740. This could be also the case for Pacific Gyre buoy WMO 4400622 which stopped transmitting on the 30th of July.

Finally, one buoy (WMO 6400523) was picked up by a Norwegian fisherman on the 3rd of April. It remained on board a boat till the end of June when it was re-deployed in the north of Norway. Pressure values had been still transmitted onto the GTS, even when the buoy was on board. The buoy ran ashore in Russia around the 25th of July.

Information about the availability of buoys for future deployments may be get from the E-SURFMAR wikisite (working area) at: http://esurfmar.meteo.fr/wikisurf-wa/index.php/Availability_of_drifting_buoys

Besides E-SURFMAR buoys, 40 drifting buoys were reporting at least air pressure or wind observations from the EUCOS area of interest. Out of these, 12 were reporting Sea Surface Salinity, some in the frame of Spurs/Strasse campaign (validation of SMOS and Aquarius remote SSS measurements) and 3 were operating in the frame of HyMeX in the Mediterranean Sea.

Drifting buoys - New deployments

WMO	Telcom	Typ	Ow	Dep_Date	DepLat	DepLon	From	Comment
4400769	60210790	PSB	UP	20130714	40.4	-60.0	Norfolk	OOCL Vancouver
4400773	60211790	PSB	UP	20130714	40.4	-65.0	Norfolk	OOCL Vancouver
4400863	60211690	PSB	UP	20130716	41.0	-46.3	Norfolk	OOCL Vancouver
4400870	60210460	PSB	UP	20130715	40.4	-55.0	Norfolk	OOCL Vancouver
4400874	60213460	PSB	UP	20130716	41.1	-43.0	Norfolk	OOCL Vancouver
6400611	11548420	MSB	UP	20130705	63.1	-16.7	Rotterdam	Bruarfoss

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
2500615	13409520	MIB	EU	730	-	-	X	X	-	-	-	X	-	-	-	T	0107-3107	84.87	-44.21	690
2500617	11540100	MSB	EU	731	-	-	X	X	-	-	-	X	-	-	-	T	0107-3107	85.29	-8.18	325
2500622	11540110	MSB	EU	735	-	-	X	X	-	-	-	X	-	-	-	T	0107-3107	87.14	89.72	330
2600556	11549180	MSB	EU	735	-	-	X	X	-	-	-	X	-	-	-	T	0107-3107	83.68	-20.93	305
2600557	11544490	MSB	EU	731	-	-	X	X	-	-	-	X	-	-	-	T	0107-3107	80.85	-7.88	307
4400546	11160640	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	50.31	-47.06	134
4400548	11160660	MSB	EU	736	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	53.20	-47.75	133
4400549	11025170	MSB	EU	737	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	56.12	-28.29	542
4400550	11545160	MSB	E2	737	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	49.61	-25.69	134
4400551	11027150	MSB	EU	735	-	-	X	X	-	-	-	X	-	-	-	T	0107-3107	39.59	-32.56	542
4400602	11468700	MSB	UP	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	55.05	-36.49	132
4400603	11540410	MSB	UP	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	54.28	-15.11	304
4400605	11473110	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	50.42	-46.66	82

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4400606	11687410	MSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	33.16	-39.70	300
4400607	11474110	MSB	EU	723	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	42.55	-38.72	83
4400611	11471110	MSB	EU	734	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	48.50	-28.70	148
4400613	11475040	MSB	EU	731	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	43.94	-49.70	148
4400616	11813550	MSB	EU	731	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	61.45	-10.57	556
4400617	11474100	MSB	EU	729	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	44.11	-51.71	147
4400623	11167640	MSB	EU	730	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	54.18	-23.96	260
4400624	11341110	YSB	EU	727	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	46.19	-32.78	233
4400627	11028170	MSB	EU	730	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	48.03	-6.95	482
4400683	12366460	MSB	CA	741	-	-	X	X	X	-	-	X	-	-	-	O	0107-3107	41.17	-66.47	131
4400721	13805460	MSB	EU	732	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	29.67	-42.08	427
4400723	10825630	MSB	EU	736	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	56.87	-25.57	402
4400724	13300270	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	56.59	-31.17	403
4400725	11027170	MSB	EU	730	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	41.24	-12.99	404
4400726	11023190	MSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	49.20	-13.79	403
4400728	11020190	MSB	EU	732	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	51.80	-14.49	404
4400730	11846540	MSB	E2	736	-	-	X	X	-	-	X	-	-	-	-	T	0107-3107	49.73	-23.65	381
4400740	11883820	PSB	UP	704	-	-	X	X	X	-	-	X	-	-	-	T	0107-3007	30.82	-39.25	388
4400741	11688230	MSB	EU	729	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	40.84	-36.24	313
4400746	13357510	MSB	EU	472	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	58.71	-9.15	601
4400760	11880820	PSB	UP	736	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	52.68	-23.36	387
4400761	11883770	PSB	UP	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	61.41	0.68	387
4400762	11244970	YSB	EU	724	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	49.10	-20.51	228
4400763	11683410	MSB	EU	738	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	54.24	-24.24	148
4400764	11688400	MSB	EU	731	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	45.85	-48.76	125
4400765	11685410	MSB	EU	734	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	44.80	-51.03	125
4400767	11919510	MSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	36.94	-20.45	552
4400769	60210790	PSB	UP	395	-	-	X	X	X	-	-	X	-	-	-	T	1507-3107	40.55	-58.75	18
4400770	11798230	MSB	E2	732	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	44.24	-37.09	160
4400771	60507000	MSB	E2	730	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	54.49	-27.67	160
4400772	11544410	MSB	UP	736	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	54.81	-15.48	378
4400773	60211790	PSB	UP	395	-	-	X	X	X	-	-	X	-	-	-	T	1507-3107	41.26	-63.21	18
4400774	11460700	MSB	UP	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	49.79	-17.58	379
4400775	11540170	MSB	E2	734	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	54.69	-28.23	378
4400777	11885820	PSB	UP	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	52.11	-22.38	375
4400778	11463700	MSB	UP	737	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	43.36	-13.33	376
4400779	11885820	PSB	UP	736	-	-	X	X	-	-	X	-	-	-	-	T	0107-3107	55.99	-22.19	376
4400780	11880840	PSB	UP	732	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	57.05	-18.86	376
4400844	37533	TSB	UP	739	-	-	X	X	X	-	-	X	-	-	-	L	0107-3107	19.19	-40.37	825
4400863	60211690	PSB	UP	371	-	-	X	X	X	-	-	X	-	-	-	T	1607-3107	44.14	-43.13	16
4400865	11022610	MSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	41.04	-17.62	528
4400866	11020180	MSB	EU	734	-	-	X	X	S	-	-	X	-	-	-	T	0107-3107	53.39	-10.02	527
4400867	11022740	MSB	EU	737	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	38.70	-27.04	527
4400868	11794230	MSB	E2	734	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	44.84	-41.08	85
4400869	11026040	MSB	EU	731	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	35.71	-22.02	518
4400870	60210460	PSB	UP	311	-	-	X	X	X	-	-	X	-	-	-	T	1607-3107	38.41	-44.87	16
4400871	11025180	MSB	EU	731	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	64.75	7.20	516
4400872	11027700	MSB	EU	734	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	45.51	-7.96	502
4400873	11022600	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	46.86	-11.48	502
4400874	60213460	PSB	UP	270	-	-	X	X	X	-	-	X	-	-	-	T	1707-3107	42.07	-43.00	16
4400875	11021610	MSB	EU	740	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	34.94	-26.28	502
4800662	10822620	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	55.46	-34.83	355
4800663	10822640	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	52.30	-26.54	355
6200511	11026160	MSB	EU	737	-	-	X	X	-	-	X	-	-	-	-	T	0107-3107	31.41	-9.85	513
6200512	11687230	MSB	EU	738	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	38.76	-19.70	85
6200514	60203700	MSB	E2	731	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	58.86	-23.52	160
6200515	11795230	MSB	E2	734	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	49.77	-23.79	160
6200516	11475100	MSB	EU	730	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	39.58	-16.38	86
6200520	13611180	MSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	22.16	-30.13	540
6200521	11688060	MSB	EU	1027	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	48.42	-12.02	315
6200522	11680430	MSB	EU	731	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	45.60	-7.01	314
6200531	11548410	MSB	UP	732	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	43.67	-19.95	294
6200532	11566230	MSB	UP	695	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	62.64	-8.48	293
6200553	11165650	MSB	EU	734	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	63.69	-25.25	130
6200554	11027160	MSB	EU	490	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	34.02	-28.82	512
6200556	11021170	MSB	EU	737	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	28.95	-19.09	512
6200678	11029050	MSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	64.24	-26.88	529
6200679	11684400	MSB	EU	736	-	-	X	X	S	-	-	X	-	-	-	T	0107-3107	53.45	-10.12	128
6200680	11166640	MSB	EU	737	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	58.20	-26.37	257
6200681	11168640	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	61.16	-50.66	258
6200684	11882820	PSB	UP	732	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	70.81	12.10	384
6200686	11845450	MSB	E2	732	-	-	X	X	-	-	X	-	-	-	-	T	0107-3107	59.67	-30.23	383
6200687	11349100	YSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	60.72	-8.47	237
6200695	60408990	MSB	E2	724	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	44.57	-21.13	86
6200712	11799220	MSB	E2	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	42.38	-29.18	86
6200713	11246980	YSB	EU	721	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	32.74	-29.02	232

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6200714	11240980	YSB	EU	731	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	31.44	-31.20	229
6300552	11548400	MSB	UP	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	75.53	8.05	371
6300554	11549410	MSB	UP	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	71.40	49.69	371
6300635	11477140	MSB	EU	731	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	73.59	15.91	294
6300639	11471050	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	72.01	29.44	265
6300642	11548080	MSB	EU	721	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	70.36	-0.79	409
6400516	11473100	MSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	71.84	7.98	295
6400518	11472110	MSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	71.46	13.77	295
6400519	11547420	MSB	UP	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	63.45	-14.46	89
6400520	11479040	MSB	EU	736	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	65.11	-6.99	82
6400521	11470030	MSB	EU	737	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	68.62	-7.65	80
6400522	11029150	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	62.57	-17.26	541
6400523	11757730	MSB	UP	727	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	69.87	32.38	429
6400524	10825640	MSB	EU	738	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	59.65	-60.11	402
6400527	11549160	MSB	UP	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	57.47	-51.25	322
6400606	11478100	MSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	67.83	-5.99	266
6400607	11479100	MSB	EU	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	65.05	-3.79	266
6400608	11546430	MSB	UP	733	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	65.08	10.48	117
6400609	11379950	MSB	EU	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	65.63	-2.03	81
6400610	11540440	MSB	UP	718	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	61.83	-9.87	33
6400611	11548420	MSB	UP	635	-	-	X	X	X	-	-	X	-	-	-	T	0507-3107	62.50	-17.37	27
6400619	11544440	MSB	UP	735	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	63.68	-17.77	180
6400620	11756730	MSB	UP	739	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	57.41	-46.82	426
6500591	11887820	PSB	UP	736	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	57.26	-47.67	374
6500592	11164650	MSB	EU	737	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	61.41	-33.29	258

----- Drifting buoys which ceased to be operational

WMO	Telcom	Typ	Ow	End_Date	Lat	Lon	Age	Cause
4400622	11881820	PSB	UP	20130730	37.4	-52.0	387	Batteries emptied ?
4400629	11021160	MSB	EU	20130730	43.3	-8.5	481	Ashore in Spain
4400630	13015830	MSB	EU	20130718	41.0	-18.8	414	Batteries emptied
4400864	13614150	MSB	EU	20130726	43.5	-5.1	532	Ashore in Spain - Damaged
6200685	11461700	MSB	UP	20130717	64.1	-21.9	371	Picked up close to Iceland
6300551	11547410	MSB	UP	20130729	71.8	40.8	370	Unknown
6400623	11470040	MSB	EU	20130715	66.8	-8.0	81	Air pressure measurements failed

----- 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
4400684	12297120	MSB	CA	741	-	-	-	-	X	-	-	X	-	-	-	O	0107-3107	40.72	-47.77	129
6400623	11470040	MSB	EU	735	-	-	S	S	X	-	-	X	-	-	-	T	0107-3107	66.81	-8.04	81

----- 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
1300575	60210910	LODY		1456	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	3.97	-11.52
1300577	114638	LODY		1301	-	-	X	-	X	-	-	X	-	-	X	T	0107-3107	24.02	-42.48
1300600	43869	AOML		741	-	-	X	X	-	-	-	X	-	-	-	L	0107-3107	23.61	-29.09
1300659	11910180	UKMO		730	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	30.10	-18.33
1300660	11022040	UKMO		729	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	24.65	-31.91
1300661	11912280	UKMO		720	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	26.17	-27.88
1300662	11098800	UKMO		737	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	23.92	-25.75
1300664	11090810	UKMO		728	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	26.12	-19.02
1300665	11091810	UKMO		731	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	20.12	-27.11
1300666	11099800	UKMO		734	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	15.58	-17.67
1300898	60725400	LODY		1222	-	-	X	X	X	-	-	X	-	-	X	T	0107-3107	8.01	-17.18
1300899	11977530	CMM		715	-	-	X	X	X	-	-	X	-	-	X	T	0107-3107	2.79	-27.55
4100560	114550	AOML		741	-	-	X	-	-	-	-	X	-	-	-	L	0107-3107	39.85	-57.12
4100562	114558	AOML		580	-	-	X	-	X	-	-	X	-	-	-	L	0107-3107	35.66	-69.90
4100599	11546410	CMM		732	-	-	X	X	X	-	-	X	-	-	-	T	0107-3107	17.70	-59.94
4100616	101618	AOML		743	-	-	X	X	X	-	-	X	-	-	-	L	0107-3107	35.05	-36.15
4100633	114634	LODY		1760	-	-	X	-	X	-	-	X	-	-	X	T	0107-3107	28.50	-49.61
4100634	114632	LODY		1448	-	-	X	-	X	-	-	X	-	-	X	T	0107-3107	23.18	-56.66

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MOORED BUOYS

No data have been received from Greek moored buoys since the 1st of July 2012.

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
6100001	Cote d'Azur	742	X	X	X	X	X	X	X	-	-	X	-	T	0107-3107	43.40	7.80
6100002	Lion	743	X	X	X	X	-	X	X	-	-	X	-	T	0107-3107	42.10	4.70
6200001	Gascogne	743	X	X	X	X	X	X	X	-	-	X	-	O	0107-3107	45.30	-5.00
6200029	K1	743	X	X	X	X	X	X	X	-	-	X	-	O	0107-3107	48.70	-12.50
6200081	K2	743	X	X	X	X	X	X	X	-	-	X	-	O	0107-3107	51.00	-13.20
6200090	M1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53.10	-11.20
6200091	M2	654	X	X	X	-	X	-	-	-	-	X	X	O	0107-2807	53.50	-5.40
6200092	M3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51.20	-10.50
6200093	M4	743	X	X	X	-	X	X	-	-	-	S	-	O	0107-3107	54.70	-9.10
6200094	M5	743	X	X	X	-	X	-	-	-	-	X	-	O	0107-3107	51.70	-6.70
6200095	M6	744	X	X	X	X	X	X	-	-	-	X	-	O	0107-3107	53.10	-15.90
6200105	K4	735	X	X	X	X	X	X	X	-	-	X	-	O	0107-3107	55.80	-11.40
6200108	K3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53.50	-19.50
6200163	Brittany	743	X	X	X	X	X	X	X	-	-	X	-	O	0107-3107	47.50	-8.40
6400045	K5	723	X	X	X	X	X	X	-	-	-	X	-	O	0107-3107	59.10	-11.70
6400046	K7	710	X	X	X	-	X	X	-	-	-	X	-	O	0107-3107	60.70	-5.20

Comments:

- EUCOS moored buoys are presented in bold characters.

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
1300130	Gran Canaria	742	X	X	X	-	X	X	X	-	-	-	X	O	0107-3107	28.18	-15.82
1300131	Tenerife Sur	735	X	X	X	-	X	X	X	-	-	-	S	O	0107-3107	28.00	-16.58
6100196	C. Begur	743	X	X	X	-	-	-	-	-	-	-	-	O	0107-3107	41.92	3.65
6100197	Mahon	744	X	X	X	-	-	X	X	-	-	-	-	O	0107-3107	39.72	4.42
6100198	C. de Gata	696	X	X	X	-	X	X	X	-	-	-	X	O	0107-3107	36.57	-2.33
6100280	Tarragona	661	X	X	X	-	X	X	X	-	-	-	X	O	0107-3107	40.77	1.47
6100281	Valencia	734	X	X	X	-	X	X	X	-	-	-	X	O	0107-3107	39.47	-0.27
6100417	C. de Palos	738	X	X	X	-	X	X	X	-	-	-	X	O	0107-3107	37.65	-0.32
6100430	Dragonera	744	X	X	X	-	X	X	X	-	-	-	-	O	0107-3107	39.56	2.11
6200024	Bilbao-Visc.	744	X	X	X	-	X	X	X	-	-	-	X	O	0107-3107	43.63	-3.03
6200025	C. de Penas	743	X	-	X	-	X	X	X	-	-	-	X	O	0107-3107	43.73	-6.17
6200082	E. de Bares	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44.13	-7.69
6200083	Villano-Sis.	746	X	X	X	-	X	X	X	-	-	-	X	O	0107-3107	43.48	-9.22
6200084	C. Silleiro	680	X	X	X	-	X	X	X	-	-	-	X	O	0107-3107	42.12	-9.43
6200085	G. de Cadiz	744	X	X	X	-	X	X	X	-	-	-	X	O	0107-3107	36.48	-6.97
	0 Santander	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43.84	-3.77

Comments:

- The EUCOS buoy is presented in bold characters.

Operating ISPRA moored buoys (Italy)

WMO	Name	nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon
6100207		644	-	-	X	-	X	X	-	-	-	-	-	O	0107-3107	37.44	15.15
6100208		-	-	-	-	-	-	-	-	-	-	-	-	-	-	37.52	12.53
6100209		-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.26	13.33
6100210		1483	-	-	X	-	X	X	-	-	-	-	-	O	0107-3107	39.02	17.22
6100211		1478	-	-	X	-	X	X	-	-	-	-	-	O	0107-3107	39.45	15.92
6100212		-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.62	9.89
6100213		-	-	-	-	-	-	-	-	-	-	-	-	-	-	40.55	8.11
6100214		1469	-	-	X	-	X	X	-	-	-	-	-	O	0107-3107	40.87	12.95

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6100215	1479	-	-	X	-	X	X	-	-	-	-	-	O	0107-3107	40.98	17.38
6100216	1267	-	-	X	-	X	X	-	-	-	-	-	O	0107-3107	42.24	11.55
6100218		-	-	-	-	-	-	-	-	-	-	-			43.83	13.72
6100219	1474	-	-	X	-	X	X	-	-	-	-	-	O	0107-3107	43.93	9.83
6100220	1369	-	-	X	-	X	X	-	-	-	-	-	O	0107-3107	45.33	12.52
6100221		-	-	-	-	-	-	-	-	-	-	-			39.12	9.40

----- Operating POSEIDON moored buoys (Greece)

WMO	Name	nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon
6101000			-	-	-	-	-	-	-	-	-	-	-			39.10	24.50
6101001			-	-	-	-	-	-	-	-	-	-	-			37.60	23.60
6101002			-	-	-	-	-	-	-	-	-	-	-			37.00	22.10
6101003			-	-	-	-	-	-	-	-	-	-	-			40.00	24.70
6101004			-	-	-	-	-	-	-	-	-	-	-			39.10	25.80
6101005			-	-	-	-	-	-	-	-	-	-	-			37.50	25.50
6101006			-	-	-	-	-	-	-	-	-	-	-			36.30	25.50
6101007			-	-	-	-	-	-	-	-	-	-	-			35.80	24.90
6101008			-	-	-	-	-	-	-	-	-	-	-			36.80	21.60
6101009			-	-	-	-	-	-	-	-	-	-	-			38.00	20.60

----- Other European moored buoys

WMO	Name	nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon
6100010	Italia-1		-	-	-	-	-	-	-	-	-	-	-			43.80	9.10
6200442	PAP	676	X	X	X	-	X	X	-	-	-	X	-	O	0207-3107	49.00	-16.40
6600021	Arkona Becken	740	X	X	-	-	X	-	-	-	-	-	-	O	0107-3107	54.90	13.90
6600022	Oder Bank	547	X	X	-	-	X	-	-	-	-	-	-	O	0407-3107	54.10	14.20
6600024	Darsser Schwell		-	-	-	-	-	-	-	-	-	-	-			54.70	12.70

----- Offshore moored buoys in the western part of the EUCOS area

WMO	Name	nobs	Wi	AT	AP	dP	ST	Wa	Ws	Dr	Sb	U	SS	O	Start_end	Lat	Lon
1300308	East Atlantic		-	-	-	-	-	-	-	-	-	-	-			15.00	-38.00
4100026		407	X	X	-	-	X	-	-	-	-	X	-	L	0107-3107	11.49	-38.40
4100040	West Atlantic	741	X	X	X	X	X	X	-	-	-	X	-	O	0107-3107	14.50	-53.00
4100041	Mid. Atlantic	736	X	X	X	X	X	X	-	-	-	X	-	O	0107-3107	14.50	-46.00
4100043	Porto Rico	729	X	X	X	X	X	X	-	-	-	-	-	O	0107-3107	21.00	-65.00
4100044		737	X	X	X	X	X	X	-	-	-	X	-	O	0107-3107	21.70	-58.70
4100046		741	X	X	X	X	X	X	-	-	-	X	-	O	0107-3107	23.90	-70.90
4100047			-	-	-	-	-	-	-	-	-	-	-			27.50	-71.50
4100048		734	X	X	X	X	X	X	-	-	-	X	-	O	0107-3107	32.00	-69.60
4100049		742	X	X	X	X	X	X	-	-	-	X	-	O	0107-3107	27.50	-53.00
4100139		415	X	X	X	-	X	-	-	-	-	X	-	L	0107-3107	20.02	-37.86
4100300	Antilles	734	X	X	X	X	X	X	-	-	-	X	-	T	0107-3107	15.85	-57.47
4200059	Caraibes	737	X	X	X	X	X	X	-	-	-	X	-	O	0107-3107	15.00	-67.50
4400008	A Nantucket		-	-	-	-	-	-	-	-	-	-	-			40.50	-69.40
4400011	D Georges Bk		-	-	-	-	-	-	-	-	-	-	-			41.10	-66.60
4400018	SE Cape Cod		-	-	-	-	-	-	-	-	-	-	-			41.30	-69.30
4400024	NNE Channel	719	X	X	X	-	X	X	-	-	-	-	-	O	0107-3107	42.30	-65.90
4400137	E Scotia Sl.	734	X	X	X	X	X	X	-	-	-	-	-	O	0107-3107	42.30	-62.00
4400138	SW Gd Banks		-	-	-	-	-	-	-	-	-	-	-			44.30	-53.60
4400139	Beanquereau	736	X	X	X	X	X	X	-	-	-	-	-	O	0107-3107	44.30	-57.10
4400140	Tail of Bk		-	-	-	-	-	-	-	-	-	-	-			43.80	-51.70
4400141	Larentian F	736	X	X	X	X	X	X	-	-	-	-	-	O	0107-3107	43.00	-58.00
4400150	La Have Bk	733	X	-	X	X	X	X	-	-	-	-	-	O	0107-3107	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
Recvd : 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, July 2013

Datend	WMO	Telcom	Recvd	GE	Bias	Std
20130731	2500615	13409520	730	0	0.0	0.3
20130731	2500617	11540100	731	0	0.0	0.3
20130731	2500622	11540110	735	0	-0.0	0.4
20130731	2600556	11549080	735	0	-0.0	0.4
20130731	2600557	11544090	731	0	-0.2	0.4
20130731	4400546	11160640	735	0	-0.2	0.4
20130731	4400548	11160660	736	0	-0.2	0.5
20130731	4400549	11025170	737	0	0.2	0.5
20130731	4400550	11545160	737	0	0.2	0.4
20130731	4400551	11027150	735	0	-0.2	0.7
20130731	4400602	11468700	735	0	-0.1	0.5
20130731	4400603	11540410	735	0	-0.1	0.4
20130731	4400605	11473110	735	0	-0.3	0.4
20130731	4400606	11687410	733	0	-0.2	0.3
20130731	4400607	11474110	723	0	-0.0	0.3
20130731	4400611	11471110	734	0	-0.1	0.4
20130731	4400613	11475040	731	0	-0.3	0.4
20130731	4400616	11813550	731	0	-0.0	0.4
20130731	4400617	11474100	729	10	0.1	0.4
20130730	4400622	11881820	629	0	0.1	0.4
20130731	4400623	11167640	730	0	-0.0	0.4
20130731	4400624	11341110	727	0	0.0	0.4
20130731	4400627	11028170	730	0	0.1	0.4
20130730	4400629	11021160	704	1	-0.5	0.8
20130718	4400630	13015830	416	15	-0.2	0.8
20130731	4400683	12366460	741	0	0.1	0.4
20130731	4400721	13805460	732	0	0.1	0.3
20130731	4400723	10825630	736	0	0.2	0.5
20130731	4400724	13300270	735	0	-0.5	0.4
20130731	4400725	11027170	730	0	-0.2	0.4
20130731	4400726	11023190	733	0	-0.5	0.3
20130731	4400728	11020190	732	0	-0.1	0.4
20130731	4400730	11846540	736	0	-0.1	0.4
20130730	4400740	11883820	704	0	0.1	0.3
20130731	4400741	11688230	729	0	0.0	0.3
20130731	4400746	13357510	472	0	0.1	0.4
20130731	4400760	11880820	736	0	0.0	0.4
20130731	4400761	11883770	735	0	-0.1	0.4
20130731	4400762	11244970	724	0	0.1	0.4
20130731	4400763	11683410	738	0	-0.1	0.4
20130731	4400764	11688400	731	0	-0.3	0.4
20130731	4400765	11685410	734	0	-0.1	0.4
20130731	4400767	11919510	733	0	0.2	0.3
20130731	4400769	60210790	395	0	0.3	0.4
20130731	4400770	11798230	732	0	0.2	0.4
20130731	4400771	60507000	730	0	-0.1	0.4
20130731	4400772	11544410	736	0	-0.0	0.4
20130731	4400773	60211790	395	0	0.2	0.4
20130731	4400774	11460700	733	0	0.1	0.3
20130731	4400775	11540170	734	0	-0.3	0.4
20130731	4400777	11885820	733	0	0.2	0.4
20130731	4400778	11463700	737	0	-0.4	0.3
20130731	4400779	11885820	736	0	-0.0	0.5
20130731	4400780	11880840	732	0	0.1	0.5
20130731	4400844	37533	738	0	0.2	0.4
20130731	4400863	60211690	371	0	0.1	0.4
20130726	4400864	13614150	608	0	-0.1	0.4
20130731	4400865	11022610	733	0	0.6	0.3
20130731	4400866	11020180	734	0	-0.6	0.5
20130731	4400867	11022740	737	0	-0.2	0.3
20130731	4400868	11794230	734	0	-0.0	0.3
20130731	4400869	11026040	731	0	0.1	0.3

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20130731	4400870	60210460	311	0	0.2	0.4
20130731	4400871	11025180	731	1	-0.4	0.7
20130731	4400872	11027700	734	0	0.6	0.4
20130731	4400873	11022600	735	0	0.3	0.3
20130731	4400874	60213460	270	0	0.3	0.3
20130731	4400875	11021610	740	0	0.7	0.3
20130731	4800662	10822620	735	0	0.3	0.5
20130731	4800663	10822640	735	0	0.2	0.4
20130731	6200511	11026160	737	0	-0.8	0.5
20130731	6200512	11687230	738	0	-0.1	0.3
20130731	6200514	60203700	731	0	-0.0	0.4
20130731	6200515	11795230	734	0	-0.1	0.4
20130731	6200516	11475100	730	0	-0.1	0.3
20130731	6200520	13611180	733	0	0.1	0.3
20130731	6200521	11688060	1027	0	-0.0	0.3
20130731	6200522	11680430	731	0	-0.3	0.4
20130731	6200531	11548410	732	0	-0.0	0.3
20130731	6200532	11566230	695	0	-0.2	0.4
20130731	6200553	11165650	734	0	-0.0	0.4
20130731	6200554	11027160	490	0	0.4	0.3
20130731	6200556	11021170	737	0	0.3	0.4
20130731	6200678	11029050	733	0	-0.1	0.4
20130731	6200679	11684400	736	0	-0.7	1.1
20130731	6200680	11166640	737	0	-0.2	0.4
20130731	6200681	11168640	735	0	-0.2	0.4
20130731	6200684	11882820	732	0	-0.2	0.4
20130717	6200685	11461700	389	0	-0.6	0.9
20130731	6200686	11845450	732	0	-0.3	0.4
20130731	6200687	11349100	733	0	-0.1	0.4
20130731	6200695	60408990	724	0	-0.0	0.3
20130731	6200712	11799220	733	0	0.0	0.3
20130731	6200713	11246980	721	0	0.1	0.3
20130731	6200714	11240980	731	0	0.1	0.3
20130729	6300551	11547410	672	0	-0.1	0.3
20130731	6300552	11548400	733	0	-0.1	0.3
20130731	6300554	11549410	735	0	0.1	0.4
20130731	6300635	11477140	731	0	-0.2	0.3
20130731	6300639	11471050	735	0	-0.1	0.3
20130731	6300642	11548080	721	0	0.1	0.6
20130731	6400516	11473100	733	0	-0.1	0.4
20130731	6400518	11472110	733	0	-0.2	0.4
20130731	6400519	11547420	733	0	-0.1	0.4
20130731	6400520	11479040	736	0	-0.2	0.5
20130731	6400521	11470030	737	0	-0.2	0.5
20130731	6400522	11029150	735	12	-0.3	1.5
20130731	6400523	11757730	676	9	0.0	0.8
20130731	6400524	10825640	738	0	0.2	0.6
20130731	6400527	11549160	733	0	-0.3	0.5
20130731	6400606	11478100	733	0	-0.2	0.6
20130731	6400607	11479100	733	0	-0.1	0.4
20130731	6400608	11546430	733	0	-0.3	0.4
20130731	6400609	11379950	735	0	-0.2	0.5
20130731	6400611	11548420	635	0	0.1	0.5
20130731	6400619	11547420	735	0	-0.6	0.5
20130731	6400620	11756730	739	0	-0.2	0.5
20130715	6400623	11470040	289	70	1.4	4.2
20130731	6500591	11887820	736	0	-0.0	0.5
20130731	6500592	11164650	737	0	-0.3	0.4

Air Pressure (hPa), moored buoys, July 2013

Datend	WMO	Telcom	Recvd	GE	Bias	Std
20130731	1300130		742	0	0.8	0.5
20130731	1300131		735	0	0.8	0.6
20130731	6100001		742	0	0.2	0.4
20130731	6100002		743	0	-0.1	0.5
20130731	6100196		743	0	0.8	0.5
20130731	6100197		744	0	1.0	0.5
20130731	6100198		696	0	0.3	0.7
20130731	6100207		167	0	-1.2	0.5
20130731	6100210		644	0	1.4	0.5
20130731	6100211		642	0	0.6	0.4
20130731	6100214		632	0	0.5	0.7
20130731	6100215		644	0	2.1	0.4

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20130731	6100216	565	0	-0.9	0.7
20130731	6100219	640	0	0.2	0.4
20130731	6100220	632	0	0.6	0.4
20130731	6100280	661	9	0.8	0.6
20130731	6100281	734	0	0.7	0.6
20130731	6100417	738	0	0.6	0.6
20130731	6100430	744	0	0.3	0.5
20130731	6200001	743	0	0.1	0.4
20130731	6200024	744	0	0.5	0.6
20130731	6200025	743	0	0.4	0.5
20130731	6200029	743	0	0.2	0.4
20130731	6200081	743	0	0.0	0.4
20130731	6200083	743	0	0.6	0.5
20130731	6200084	680	0	0.9	0.7
20130731	6200085	744	0	0.5	0.5
20130728	6200091	654	0	0.5	0.4
20130731	6200093	743	1	-0.1	0.4
20130731	6200094	743	0	-0.0	0.4
20130731	6200095	744	0	0.3	0.7
20130731	6200105	735	0	0.1	0.5
20130731	6200163	743	0	0.3	0.4
20130731	6400045	722	0	0.1	0.6
20130731	6400046	710	0	0.1	0.5

Air Temperature (C), moored buoys, July 2013

Datend	WMO	Telcom	Recvd	GE	Bias	Std
20130731	1300130		741	0	0.2	0.5
20130731	1300131		735	0	0.8	1.1
20130731	6100001		741	0	-0.1	0.7
20130731	6100002		743	0	0.1	0.9
20130731	6100196		743	0	-0.1	0.8
20130731	6100197		744	0	-1.3	0.9
20130731	6100198		696	0	0.6	1.1
20130731	6100280		661	0	0.3	0.6
20130731	6100281		724	0	0.1	0.7
20130731	6100417		738	0	-0.2	0.8
20130731	6100430		743	0	0.1	0.6
20130731	6200001		743	0	0.1	0.8
20130731	6200024		738	0	0.4	0.7
20130731	6200029		743	0	0.3	0.8
20130731	6200081		743	0	0.3	0.8
20130731	6200083		738	0	-0.1	0.7
20130731	6200084		679	0	1.1	1.0
20130731	6200085		744	0	0.3	1.0
20130728	6200091		654	0	-0.3	0.8
20130731	6200093		743	0	0.1	0.6
20130731	6200094		743	0	0.6	0.9
20130731	6200095		722	0	0.1	0.8
20130731	6200105		735	0	0.1	0.7
20130731	6200163		743	0	-0.3	0.6
20130731	6400045		723	0	0.0	0.5
20130731	6400046		710	0	-0.2	0.6
20130731	6600021		736	0	0.1	0.6
20130731	6600022		543	1	0.3	0.6

Wind direction (deg.), moored buoys, July 2013

Datend	WMO	Telcom	Recvd	GE	Bias	Std
20130731	1300130		740	0	19	21
20130731	1300131		735	136	11	38
20130731	6100001		742	84	1	33
20130731	6100002		621	15	-1	26
20130731	6100197		728	37	-11	29
20130730	6100198		567	38	3	31
20130731	6100280		612	35	2	36
20130731	6100281		665	58	9	34
20130731	6100417		724	22	-8	27
20130731	6100430		702	49	-9	37
20130731	6200001		743	13	-2	19
20130731	6200024		735	49	-0	32

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20130731	6200025	720	65	-0	30
20130731	6200029	739	10	-6	17
20130731	6200081	743	4	-2	19
20130731	6200084	672	29	0	32
20130731	6200085	728	35	-12	28
20130728	6200091	650	11	3	23
20130731	6200093	743	21	5	22
20130731	6200094	743	9	4	19
20130731	6200095	720	8	-2	19
20130731	6200105	734	11	-2	19
20130731	6200163	742	1	-6	14
20130731	6400045	702	15	-1	17
20130731	6400046	710	3	3	15
20130731	6600021	735	5	-3	21
20130731	6600022	540	6	-8	21

Wind speed rate, moored buoys, July 2013

Datend	WMO	Telcom	Recvd	GE	Rate	Err
20130731	1300130		740	0	1.0	1.0
20130731	1300131		735	0	1.3	3.4
20130731	6100001		742	0	1.4	1.4
20130731	6100002		621	0	1.1	1.3
20130731	6100197		728	0	1.2	1.1
20130730	6100198		567	1	0.8	2.5
20130731	6100280		612	0	1.3	1.3
20130731	6100281		665	0	1.2	2.0
20130731	6100417		724	0	0.8	1.5
20130731	6100430		702	0	1.7	1.3
20130731	6200001		743	0	1.1	1.2
20130731	6200024		735	0	1.5	1.5
20130731	6200025		720	0	0.9	2.1
20130731	6200029		739	0	1.0	1.0
20130731	6200081		743	0	1.1	1.1
20130731	6200084		672	0	1.2	1.6
20130731	6200085		728	0	0.9	2.2
20130728	6200091		650	0	1.0	1.4
20130731	6200093		743	1	1.1	1.6
20130731	6200094		743	0	1.1	1.4
20130731	6200095		717	1	1.1	1.1
20130731	6200105		734	0	1.1	1.3
20130731	6200163		742	0	1.0	0.9
20130731	6400045		702	1	1.0	1.2
20130731	6400046		710	0	1.0	1.3
20130731	6600021		735	0	1.2	1.3
20130731	6600022		540	1	1.2	1.2

Comments on QC statistics :

In general, the networks performed very well in July...

Air pressure

1. Metocean buoys WMO **4400617** and **6400522** reported a few wrong pressure values during the month, for unknown reasons.
2. Metocean buoy WMO **4400630** reported a few wrong pressure values at the end of its life.
3. Metocean buoy WMO **6400623** reported a few wrong pressure values onto the GTS before the transmission was stopped for this parameter.
4. Since the 18th of July, Italian ISPRA buoys report air pressure data back onto the GTS. Their quality seems good in general but some systematic biases may be seen for buoys WMO **6100207**, **6100210** and **6100215**.

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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 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.