



VOS MONTHLY REPORT
 May 2016

In May 2016, **197 manned and 2164 automated observations** were received in average per day from EUMETNET ships operating in the EUMETNET observation area of interest (289 conventional VOS and 146 Shipborne Automatic Weather Stations (S-AWS)).

All ship observations managed by European NMS are now sent onto the GTS in FM94 BUFR format. Native BUFR are made by Meteo-France for BaTos, BaRos, Deck Drifters and EUCAWS stations, as well as for conventional VOS using the half compression technique. Other data are the result of a FM13 to BUFR conversion. Template TM308009, presently used, should be replaced with template TM308014 within a few months. For more information...

See <https://software.ecmwf.int/wiki/display/TCBUF/E-SURFMAR>

EUMETNET Automated Weather Stations (AWS)

During May, **ten BaTos AWS stations** installed onboard ships reported their observations onto the GTS.

Ident.	Ship's name	CC	Last rep.	nobs	Remark
BATEU00	Mary Arctica	DK	20160531	314	
BATEU01	Toronto Express	UK	20160531	633	
BATEU02	Celtic Explorer	IR	20160531	463	
BATEU03	Celtic Voyager	IR	20160508	66	
BATEU04	Nuka Arctica	DK	20160529	265	
BATEU05	Irena Arctica	DK	20160531	343	
BATEU06	Montreal Express	UK	20160528	410	
BATEU07	Mississauga Exp.	UK	20160531	158	
BATEU08	Naja Arctica	DK	20160521	170	
BATEU10	Cap Finisterre	FR	20160531	404	
BATEU11	Minerva Uno	IT			Installed in Sept. 2015. Waiting for sensors.

Six BaRos AWS stations installed on E-ASAP ships **and twelve** installed on other ships reported their data onto the GTS in May. Three stations were BaRos+. In addition to air pressure, they normally report air temperature, air humidity and wind. In order to correctly measure the wind, the sonic anemometer must be well exposed. It seems this is not the case here for two out of them. Wind observations have been removed from the GTS for these meanwhile better exposures are found. A novelty is one station BaRoMinos (Baros parts inside a Minos body), a special development installed on a sailing explorer ship which will attempt the North-West passage this summer.

Ident.	Ship's name	CC	Last rep.	nobs	Remark
BAREU00	Atlantic Compass	EU	20160505	55	
BAREU08	Liverpool Express	EU	20160506	66	
BAREU11	Dublin Express	EU	20160520	373	
BAREU12	Atlantic Conveyor	EU	20160531	517	
BAREU13	Ottawa Express	EU	20160531	556	
BAREU14	Atlantic Cartier	EU	20160531	544	
BAREU51	La Superba	IT	20160531	504	BaRos+ (Gill MetPak-II)
BAREU60	Dubrovnik	HR	20160531	228	
BAREU62	Daniel A	IT	20160531	472	
BAREU65	Agean Dignity	GR	20160530	225	
BAREU66	Excellent	IT	20160531	628	
BAREU67	Hilde A	IT	20160531	502	BaRos+ S-AWS (WXT520). - No wind reports
BAREU70	Marguerite A	IT	20160531	421	
BAREU71	Sete Cidades	PT	20160522	174	BaRos+ (MetPak-II)
BAREU72	Natalia A	IT	20160531	422	
BAREU74	Ayse	IT	20160531	497	
BAREU75	Horace A	IT	20160530	395	BaRos+ (MetPak-II) - Acceptable wind reports
BAREU76	Manevai	FR	20160531	42	BaRoMinos

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There were no reports from **Deck Drifters** in May.

Ident.	Ship's name	CC	Last rep.	nobs	Remark
IDDEU03	Fulmar	EU	20160309		No observations in May

No **EUCAWS** prototype was operating in May.

Ident.	Ship's name	CC	Last rep.	nobs	Remark
EUCEU02	Lagarfoss	EU	20160106		No observations in May

Inmarsat-C Half Compression technique

Raw data messages sent through Inmarsat-C (Borum LES - SAC 431) are processed at Meteo-France for GTS transmission. Met Office also started the deployment of the technique on UK recruited VOS. In May, 10 conventional VOS reported a total of **297** half compressed messages.

Useful links

The working area of the E-SURFMAR website <http://esurfmar.meteo.fr/wikisurf-wa/> is the place where you can get a lot of informations about the programme in general and its components (data buoys and VOS). Ask the E-SURFMAR Programme Manager Pierre.Blouch@meteo.fr for the password in case you forgot it. Notice you can participate in providing your own information to the PM or in writing directly on the website. This latest facility, easy to handle, may be provided to volunteers.

The E-SURFMAR metadata database address is <http://esurfmar.meteo.fr/doc/vosmetadata/> . This database contains the most recently updated WMO Pub47 metadata of the global WMO VOS fleet. Every day, extracts from the database are made available at <ftp://esurfmar.meteo.fr/pub/Pub47/> .

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

A "blacklist" of EUMETNET VOS reporting dubious air pressure values is displayed at:

<http://www.meteo2.shom.fr/qctools/sevblackap.htm>

VOS operators (focal points) and PMOs are invited to check whether their ships are not in this list and to take appropriate actions to correct possible problems if any.

A list of European AWS is available at
http://www.meteo2.shom.fr/qctools/last-report-list_surfmar_vos.html

Updated every day, this list gives for each station: its operating country; the date of its first report (after September 2004); the date of its last report - in red for those which have not reported for more than 2 weeks - ; etc...

The official E-SURFMAR webpages may be seen at <http://www.eumetnet.eu/e-surfmar/>.