



## **VOS MONTHLY REPORT**

September 2016

In September 2016, **221 manned and 2256 automated observations** were received in average per day from EUMETNET ships operating in the EUMETNET observation area of interest (277 conventional VOS and 137 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 September, **nine BaTos AWS stations** installed onboard ships reported their observations onto the GTS.

<b>Ident.</b>	<b>Ship's name</b>	<b>CC</b>	<b>Last rep.</b>	<b>nobs</b>	<b>Remark</b>
BATEU00	Mary Arctica	DK	20160930	476	
BATEU01	Toronto Express	UK	20160930	473	
BATEU02	Celtic Explorer	IR	20160930	424	
BATEU04	Nuka Arctica	DK	20160930	364	
BATEU05	Irena Arctica	DK	20160930	396	
BATEU06	Montreal Express	UK	20160930	450	
BATEU07	Mississauga Exp.	UK	20160930	398	
BATEU08	Naja Arctica	DK	20160930	439	
BATEU10	Cap Finisterre	FR	20160930	630	

**Four BaRos AWS** stations installed on E-ASAP ships **and eleven** installed on other ships reported their data onto the GTS in September. 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 passed the North-West passage this summer.

<b>Ident.</b>	<b>Ship's name</b>	<b>CC</b>	<b>Last rep.</b>	<b>nobs</b>	<b>Remark</b>
BAREU08	Liverpool Express	EU	20160930	568	
BAREU12	Atlantic Conveyor	EU	20160930	557	
BAREU13	Ottawa Express	EU	20160930	494	
BAREU14	Atlantic Cartier	EU	20160930	526	
BAREU51	La Superba	IT	20160930	492	BaRos+ (Gill MetPak-II)
BAREU60	Dubrovnik	HR	20160930	294	
BAREU62	Daniel A	IT	20160928	187	
BAREU65	Agean Dignity	GR	20160930	599	
BAREU66	Excellent	IT	20160930	583	
BAREU67	Hilde A	IT	20160930	465	BaRos+ S-AWS (WXT520). - No wind reports
BAREU70	Marguerite A	IT	20160930	447	
BAREU72	Natalia A	IT	20160930	429	
BAREU74	Ayse	IT	20160930	454	
BAREU75	Cornelius A	IT	20160930	341	BaRos+ (MetPak-II) - Name change
BAREU76	Manevai	FR	20160930	702	BaRoMinos

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One **Deck Drifter** reported data in September.

Ident.	Ship's name	CC	Last rep.	nobs	Remark
IDDEU03	Fulmar	EU	20160917	47	
IDDEU04	Sete Cidades	EU	20160930	720	Deck Drifter installs since 14th July

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

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

### 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 September, **10** conventional VOS reported a total of **953** 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](mailto: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](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/>.