



VOS MONTHLY REPORT

December 2016

In December 2016, **187 manned and 1904 automated observations** were received in average per day from EUMETNET ships operating in the EUMETNET observation area of interest (238 conventional VOS and 127 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/TCTBUF/E-SURFMAR>

EUMETNET Automated Weather Stations (AWS)

During December, **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	20161231	175	
BATEU01	Toronto Express	UK	20161231	439	
BATEU02	Celtic Explorer	IR	20161218	325	
BATEU03	Celtic Voyager	IR	20161214	87	
BATEU04	Nuka Arctica	DK	20161231	357	
BATEU05	Irena Arctica	DK	20161221	306	
BATEU06	Montreal Express	UK	20161231	451	
BATEU07	Mississauga Exp.	UK	20161231	339	
BATEU08	Naja Arctica	DK	20161231	430	
BATEU10	Cap Finisterre	FR	20161231	552	

Four BaRos AWS stations installed on E-ASAP ships **and nine** installed on other ships reported their data onto the GTS in December. **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.

Ident.	Ship's name	CC	Last rep.	nobs	Remark
BAREU08	Liverpool Express	EU	20161231	567	
BAREU12	Atlantic Conveyor	EU	20161231	500	
BAREU13	Ottawa Express	EU	20161231	566	
BAREU14	Atlantic Cartier	EU	20161231	566	
BAREU51	La Superba	IT	20161231	538	BaRos+ (Gill MetPak-II) No wind reports
BAREU60	Dubrovnik	HR	20161231	87	
BAREU62	Daniel A	IT	20161231	478	
BAREU65	Agean Dignity	GR	20161231	563	
BAREU66	Excellent	IT	20161231	624	
BAREU67	Hilde A	IT	20161231	406	BaRos+ S-AWS (WXT520). - No wind reports
BAREU72	Natalia A	IT	20161231	480	
BAREU75	Cornelius A	IT	20161231	328	BaRos+ (MetPak-II)
BAREU76	Manevai	FR	20161020	560	BaRoMinos Suspended on 20 October

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Two **Deck Drifter** reported data in December.

Ident.	Ship's name	CC	Last rep.	nobs	Remark
IDDEU03	Fulmar	EU	20161231	294	
IDDEU04	Sete Cidades	EU	20161231	744	

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

Ident.	Ship's name	CC	Last rep.	nobs	Remark
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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 and Netherlands use now this technique.

In December, **14** conventional VOS reported a total of **1607** 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 cmm_op@meteofr 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 December 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/>.