



VOS MONTHLY REPORT

July 2016

In July 2016, **210 manned and 2346 automated observations** were received in average per day from EUMETNET ships operating in the EUMETNET observation area of interest (291 conventional VOS and 142 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 July, **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	20160731	410	
BATEU01	Toronto Express	UK	20160731	379	
BATEU02	Celtic Explorer	IR	20160731	472	
BATEU03	Celtic Voyager	IR	20160719	396	
BATEU04	Nuka Arctica	DK	20160731	390	
BATEU05	Irena Arctica	DK	20160731	429	
BATEU06	Montreal Express	UK	20160731	429	
BATEU07	Mississauga Exp.	UK	20160731	438	
BATEU08	Naja Arctica	DK	20160731	435	
BATEU10	Cap Finisterre	FR	20160731	650	

Four BaRos AWS stations installed on E-ASAP ships **and eleven** installed on other ships reported their data onto the GTS in July. 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
BAREU08	Liverpool Express	EU	20160731	616	
BAREU12	Atlantic Conveyor	EU	20160731	502	
BAREU13	Ottawa Express	EU	20160731	575	
BAREU14	Atlantic Cartier	EU	20160731	567	
BAREU51	La Superba	IT	20160731	534	BaRos+ (Gill MetPak-II)
BAREU60	Dubrovnik	HR	20160731	380	
BAREU62	Daniel A	IT	20160731	391	
BAREU65	Agean Dignity	GR	20160731	667	
BAREU66	Excellent	IT	20160731	544	
BAREU67	Hilde A	IT	20160731	483	BaRos+ S-AWS (WXT520). - No wind reports
BAREU70	Marguerite A	IT	20160731	459	
BAREU72	Natalia A	IT	20160731	454	
BAREU74	Ayse	IT	20160731	430	
BAREU75	Cornelius A	IT	20160731	363	BaRos+ (MetPak-II) - Name change
BAREU76	Manevai	FR	20160731	712	BaRoMinos

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

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Ident.	Ship's name	CC	Last rep.	nobs	Remark
IDDEU03	Fulmar	EU	20160309		No observations in July
IDDEU04	Sete Cidades	EU	20160731	363	Deck Drifter installs since 14th July

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

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

Inmarsat-C Half Compression technique

Raw data messages sent through Inmarsat-C (Burm 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 July, **9** conventional VOS reported a total of **345** 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/>.