E-SURFMAR Report

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E-SURFMAR

EUMETNET Members

29 European Meteorological Services.

Austria, Belgium, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, FYROM, Germany, Greece, Hungary, Iceland, Italy, Ireland, Latvia, Luxembourg, Montenegro, Netherlands, Norway, Poland, Portugal, Serbia, Slovenia, Spain, Sweden, Switzerland, United Kingdom

19 out of them are participating in E-SURFMAR

Objectives

 to coordinate, optimise and progressively integrate the European activities for surface observations over the sea in support of Numerical Weather Prediction (NWP)

Two components

- Conventional Voluntary Observing Ships (VOS)
 or ships equipped with Automated Weather Stations (S-AWS)
- Drifting and Moored Data Buoys



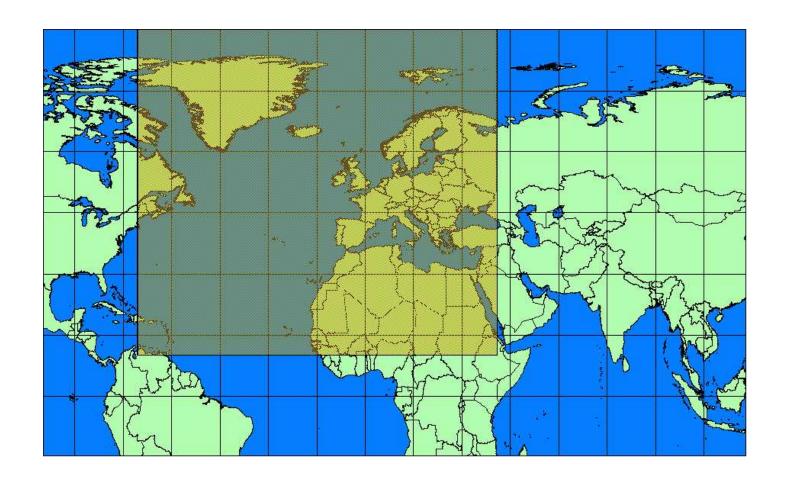
Cooperations

E-SURFMAR

- contributes to:
 - the World Weather Watch of WMO all observations are reported onto its Global Telecommunication System (GTS) in real time
 - and the Copernicus (was GMES) Marine Core Service
- works closely with the JCOMM Data Buoy Cooperation Panel (DBCP) and the JCOMM Ship Observation Team (SOT)
- cooperates with NOAA and the Meteorological Service of Canada, as well as with IMI, BSH and PdE and other Mediterranean (MOON) oceanographic agencies



E-SURFMAR area





Data Buoys







Data Buoy Management

E-SURFMAR is responsible for the European meteorological data buoys

Expert Team – Data Buoy (ET-DB) took over in 2013 the attributions of Data Buoy Technical Advisory Group (DB-TAG) - is an action group of the DBCP

Meetings:

January (Geneva) and May 2005 (Hamburg)

June 2006 (Galway)

May 2007 (Larnaka)

May 2008 (Reykjavik)

May 2009 (Southampton)

May 2010 (Madrid)

May 2011 (Héraklion)

May 2012 (Las Palmas)

June 2013 (Oslo)

Data Buoy Programme Manager

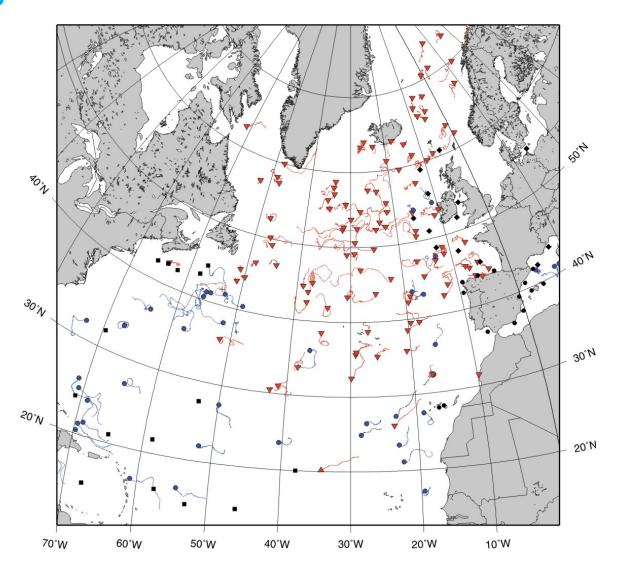


Network status

- ✓ Iridium SVP-B
 - ▲ Argos SVP-B
 - SVP-BW
 - (moored buoys)

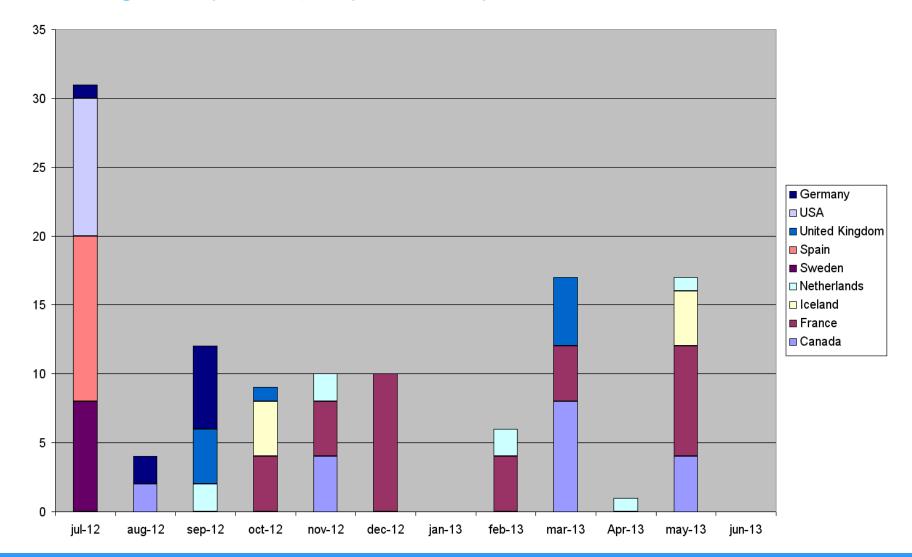
June 2013





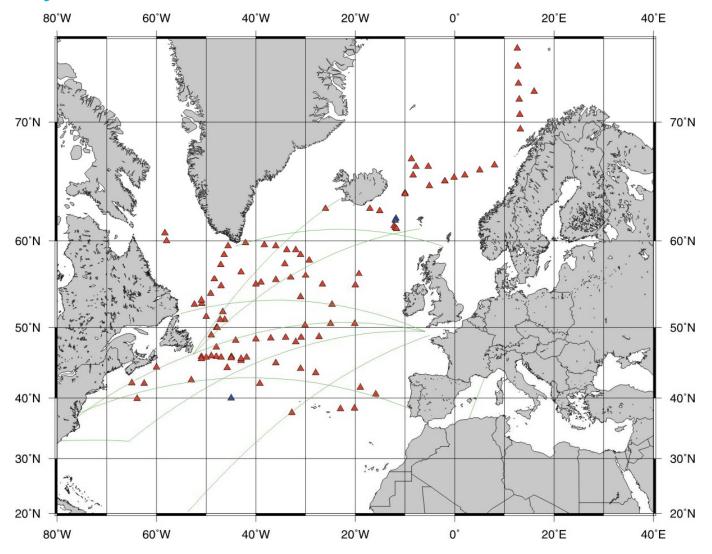


Drifting buoys deployed (July12-June13) (117 units)



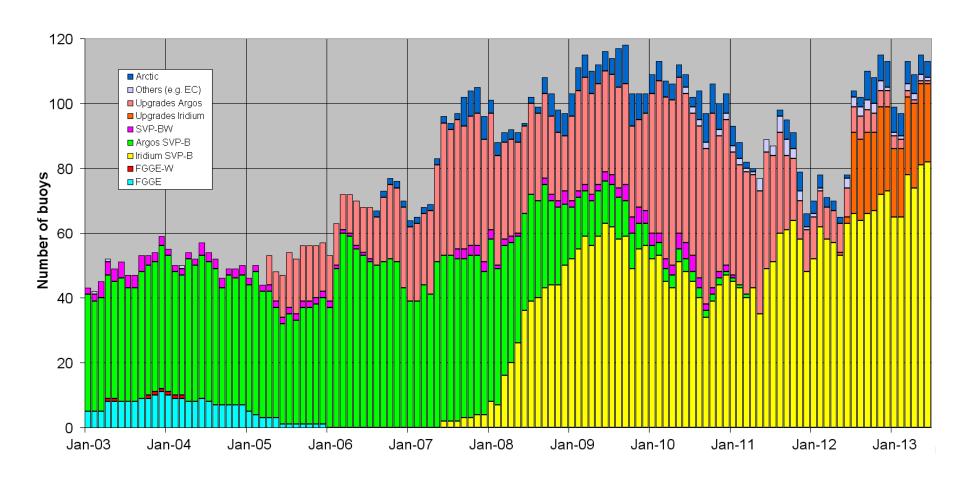


Deployment locations



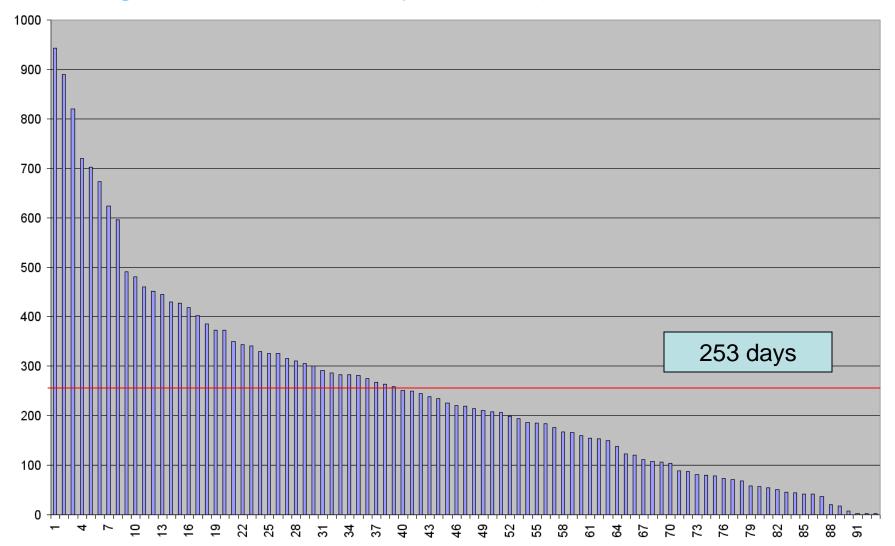


Drifting Buoys (number of buoys in operation)



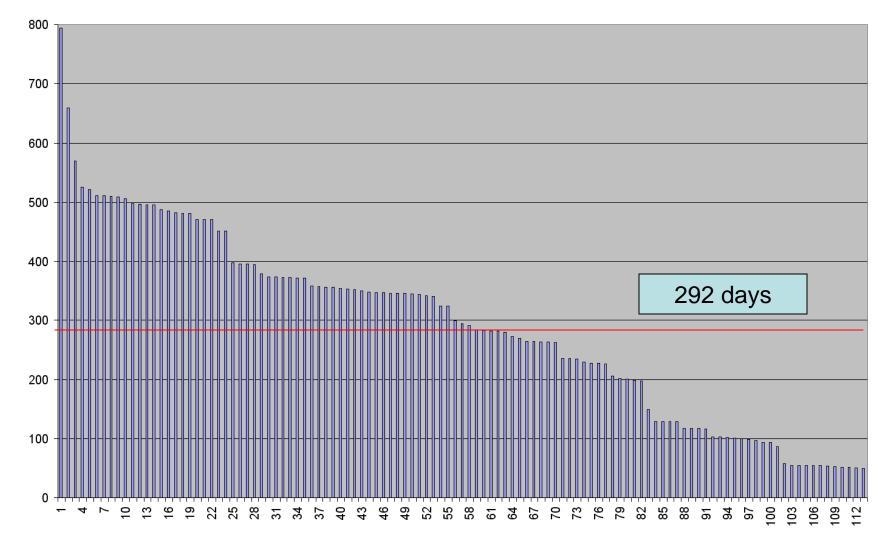


Average lifetime of buoys (AP) (93units, 161 last year)



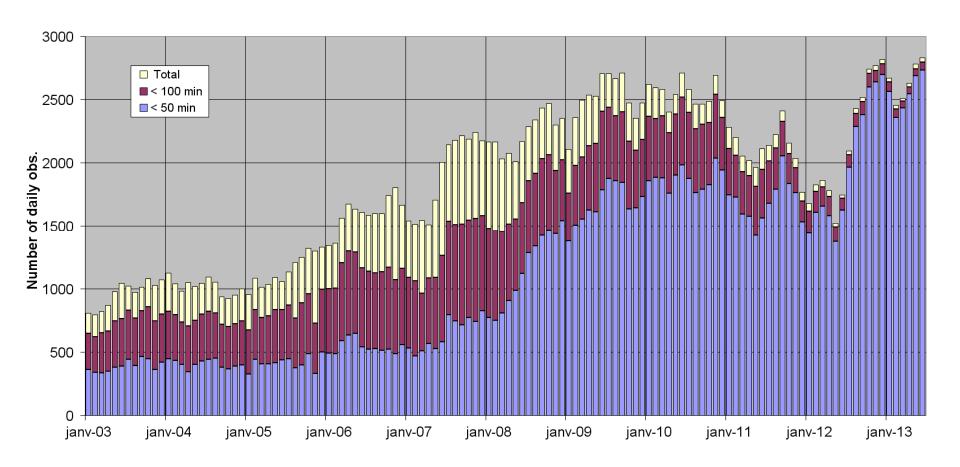


Age of the network (113 buoys)



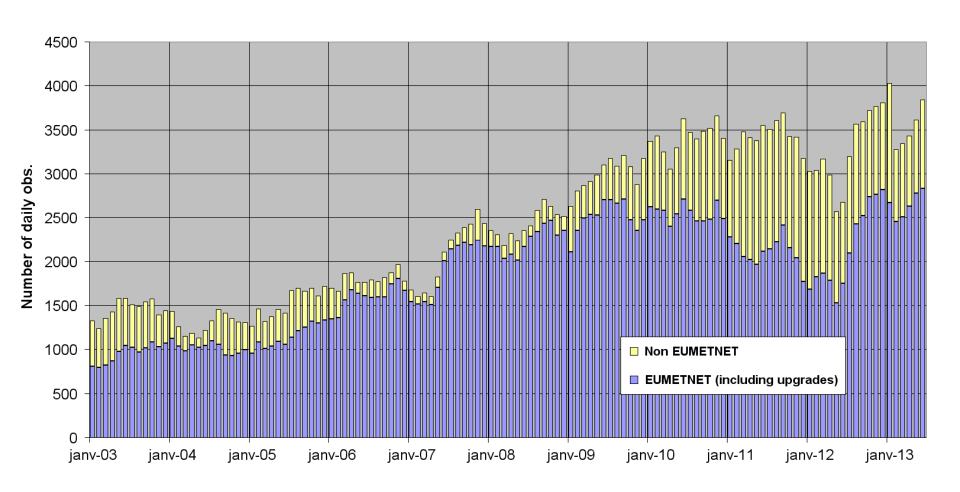


Drifting Buoys Number of observations



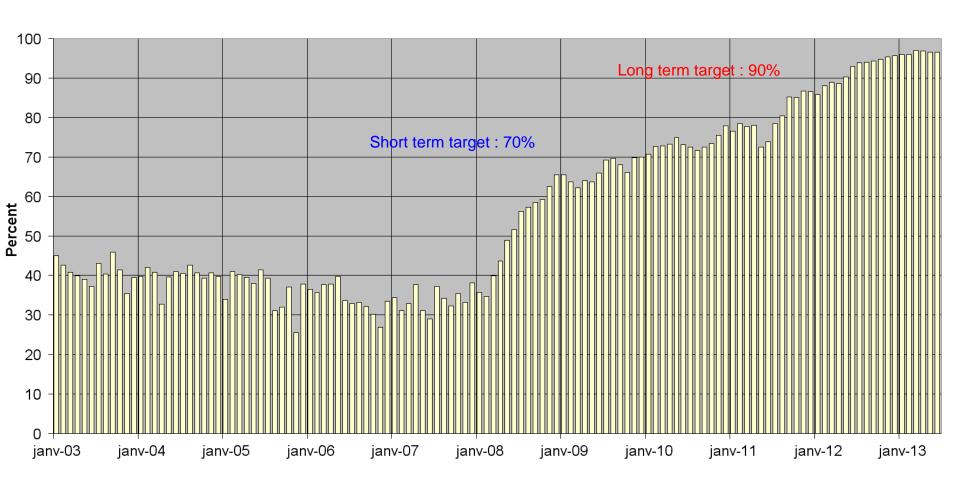


Drifting Buoys (Data availability)





Drifting Buoys (Data timeliness % < 50 min)





Contribution to IPY and EUCOS north area

Contribution through IABP

- -2 IcexAir in 2006,
- -3 ICEB buoys in 2007
- -4 SVP-B (2 Argos 2 Iridium) in 2007
- -5 SVP-B (Argos) in 2008
- -15 SVP-B (Argos) in 2009
- -extra free buoys from 2009 (10 to MetNo + 2 to NOAA) in 2010
- -3 New ICEB (2 Argos, 1 Iridium) + 12 SVP-B (Iridium) in 2011
- -22 SVP-B (Iridium) in 2012
- -13 SVP-B (Iridium) in 2013

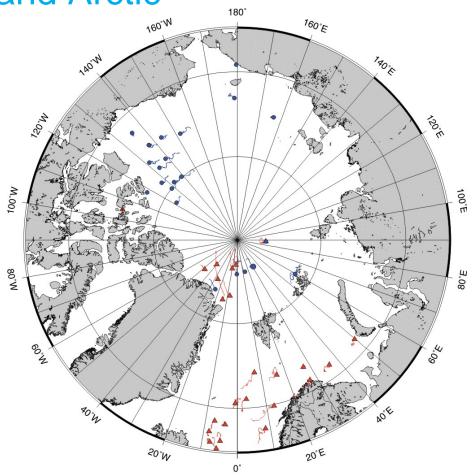


North EUCOS area and Arctic

All buoys on the map are measuring air pressure at least

Non-EUMETNET drifting buoys in blue **EUMETNET** drifting buoys in red





June 2013

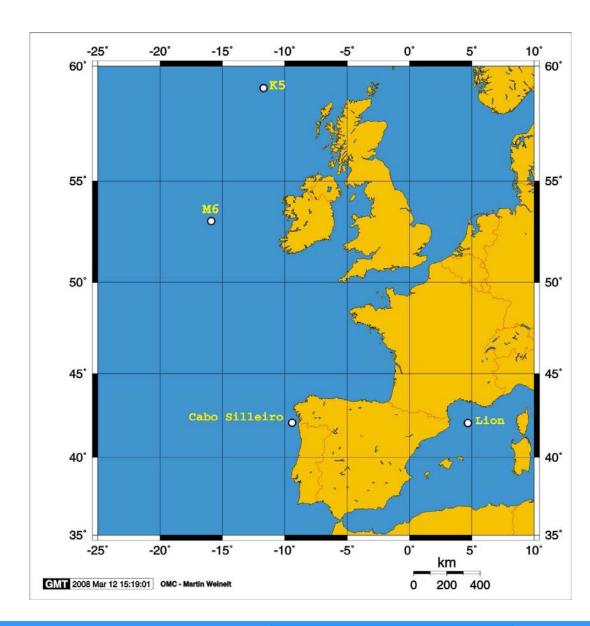


EUCOSMoored Buoys

- K5 operated by the Met Office
- M6 operated by IMI and Met Eireann
- Cabo Silleiro operated by Puertos del Estado
- Lion operated by Meteo-France







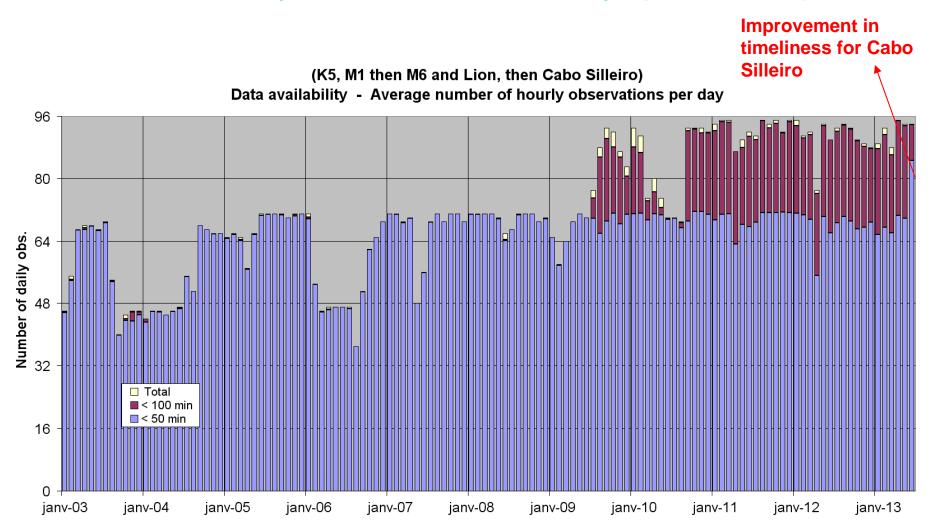


EUCOS Moored Buoys

WMO	Name	Туре	Country	GTS reports
64045	K5	K-pattern	UK	FM-13 SHIP FM-96 BUFR (spectral wave)
62095	M6	K-pattern	Ireland	FM-13 SHIP
62084	Cabo Silleiro	SeaWatch	Spain	FM-96 BUFR
61002	Lion	K-pattern	France	FM-13 SHIP FM-65 WAVEOB FM-96 BUFR (spectral wave)

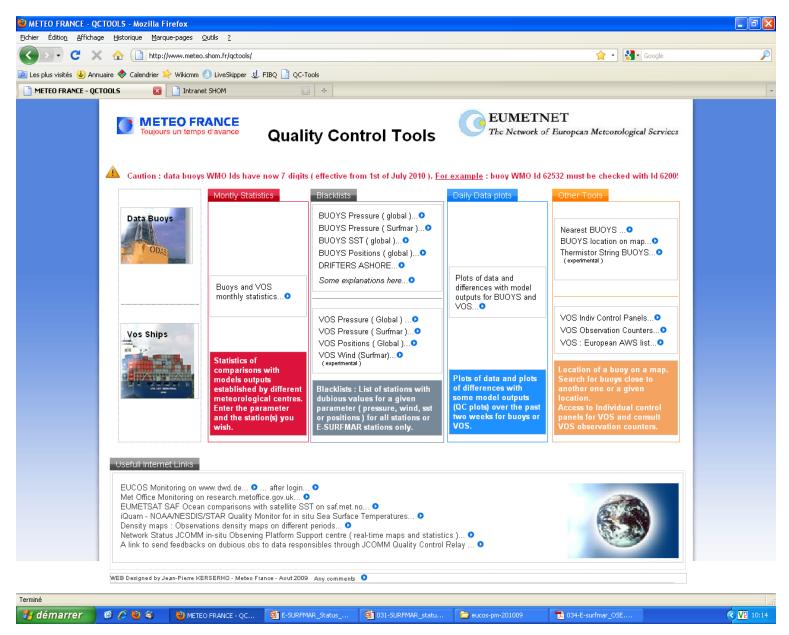


Moored Buoys data availability (EUCOS)





Data Quality Control Tools





Data buoys reporting

- Monthly report
- Annual report
- Working area of the E-SURFMAR website based on mediawiki, every participant to the programme can easily collaborate on its content

http://esurfmar.meteo.fr/

Public website

http://www.eumetnet.eu/