

E-SURFMAR Report to DBCP

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E-SURFMAR



Surface Marine Programme

- ✓ E-SURFMAR is an optional programme of the ground based EUMETNET Composite Observing System (EUCOS)



EUMETNET

The Network of European Meteorological Services

- ✓ EUMETNET (an IEG from 2009) is the Conference of European National Meteorological Services (26 WMO members in 2010)

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

17 out of them are participating in E-SURFMAR

- ✓ Météo-France is the EUMETNET member responsible for E-SURFMAR



E-SURFMAR Programme

Main Objectives



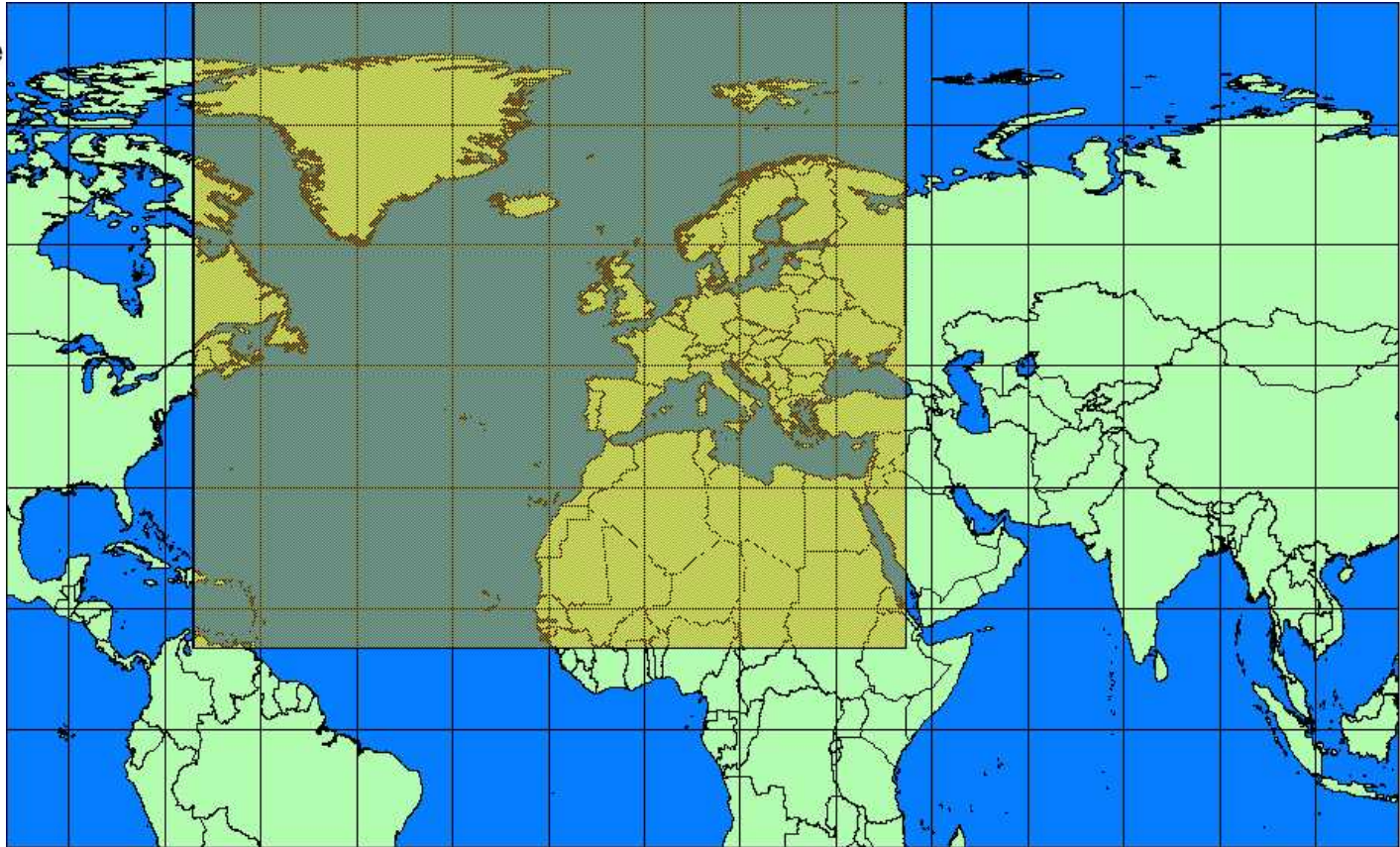
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- ✓ Main EUCOS aim is to optimise the ground observing system to improve Numerical Weather Prediction (NWP) over Europe
- ✓ E-SURFMAR aim is to co-ordinate, optimise and progressively integrate the activities for surface marine observations from data buoys and ships

E-SURFMAR Area



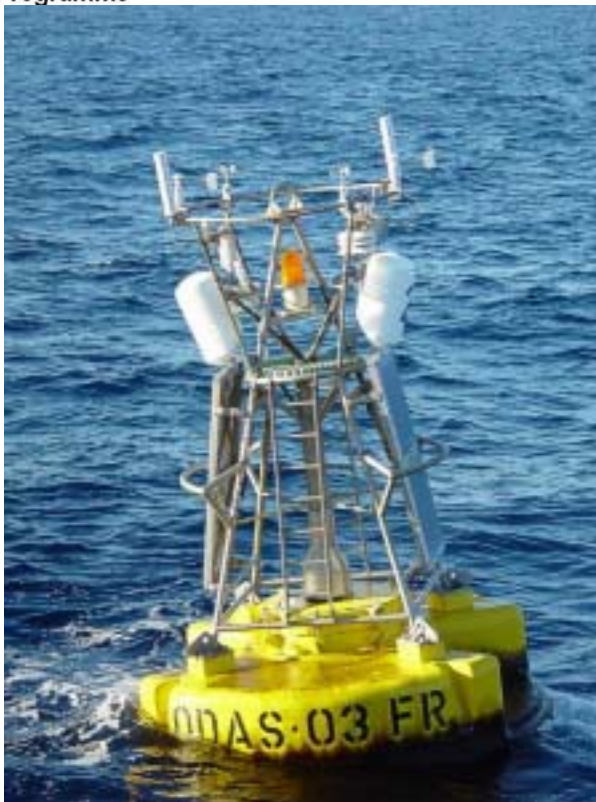
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DATA BUOYS



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Data buoys management



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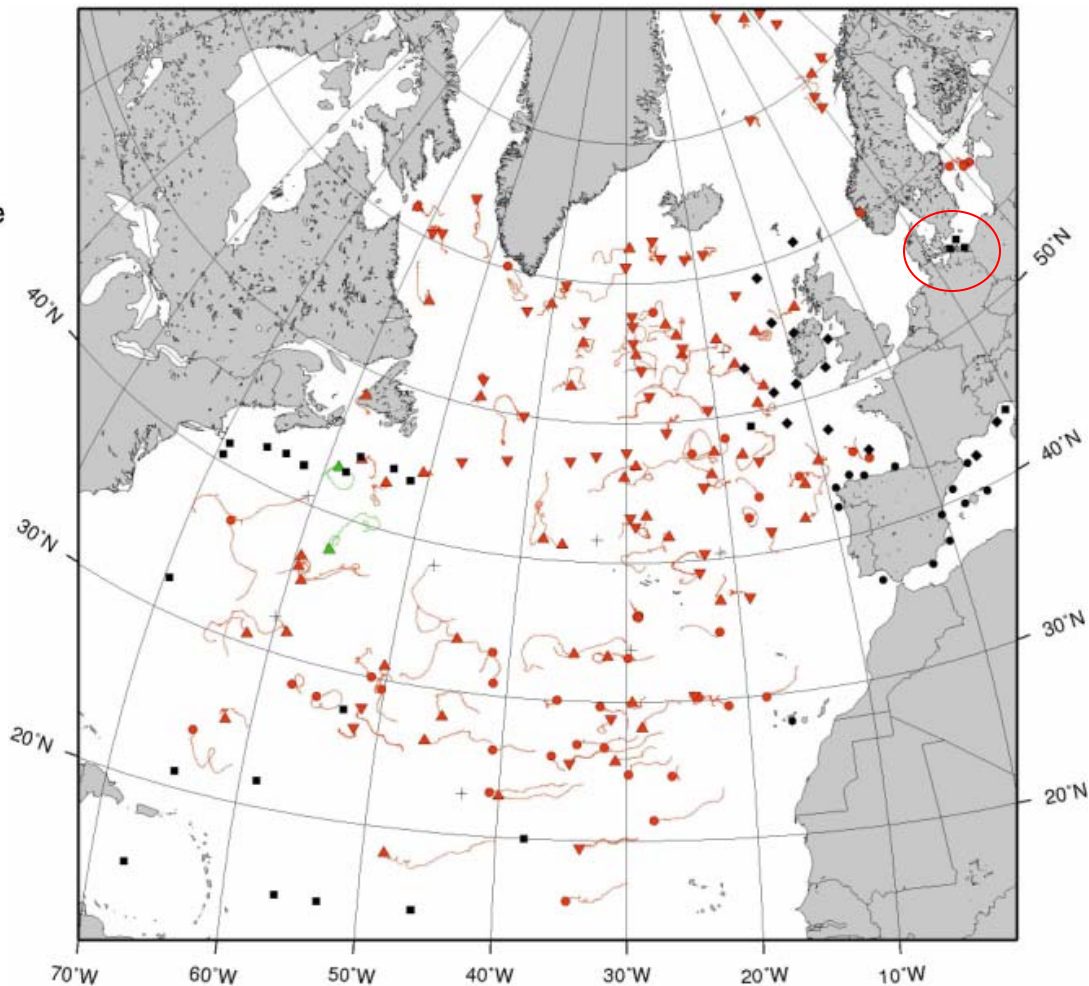
- E-SURFMAR is responsible for the European meteorological data buoys
- A DB Programme Manager is appointed
- A DB Technical Advisory Group has been established
Meetings:
 - January (Geneva) and May 2005 (Hamburg)
 - June 2006 (Galway)
 - May 2007 (Larnaka)
 - May 2008 (Reykjavik)
 - May 2009 (Southampton)
 - May 2010 (Madrid)
- E-SURFMAR DB-TAG is an action group of the DBCP



Network status



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August 2010

LEGEND

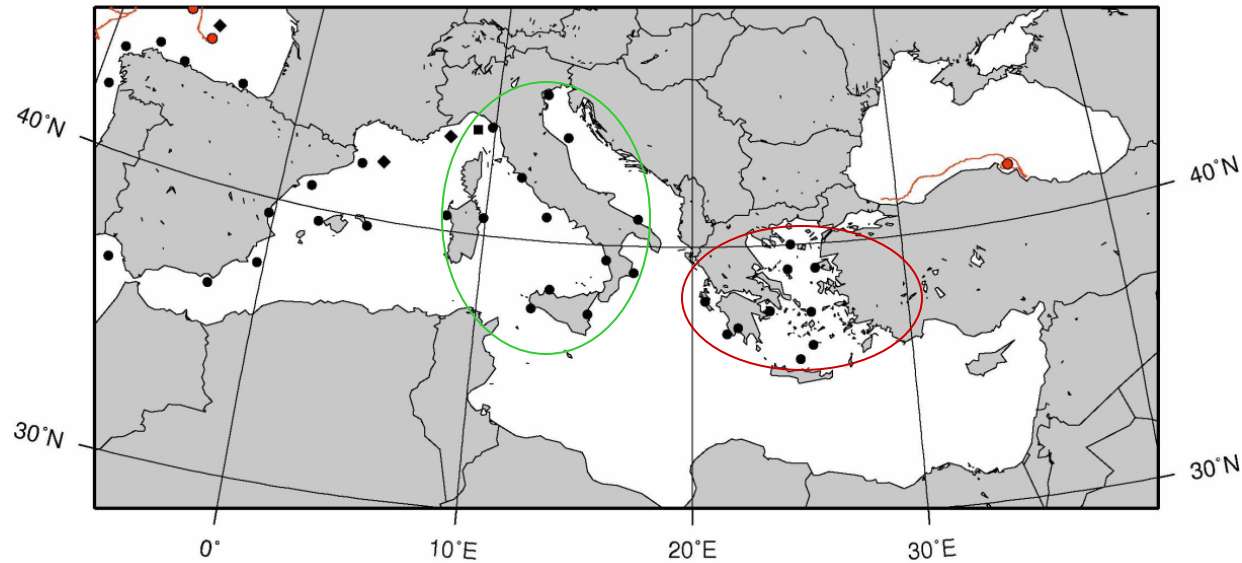
- △ EUCOS drifting buoys
- Other drifting buoys
- ▲ ● Air Pressure
- ▲ ● AP + Wind
- ◆ Other moored buoys
- Seawatch/Wavescan buoys
- Other moored buoys



Network status



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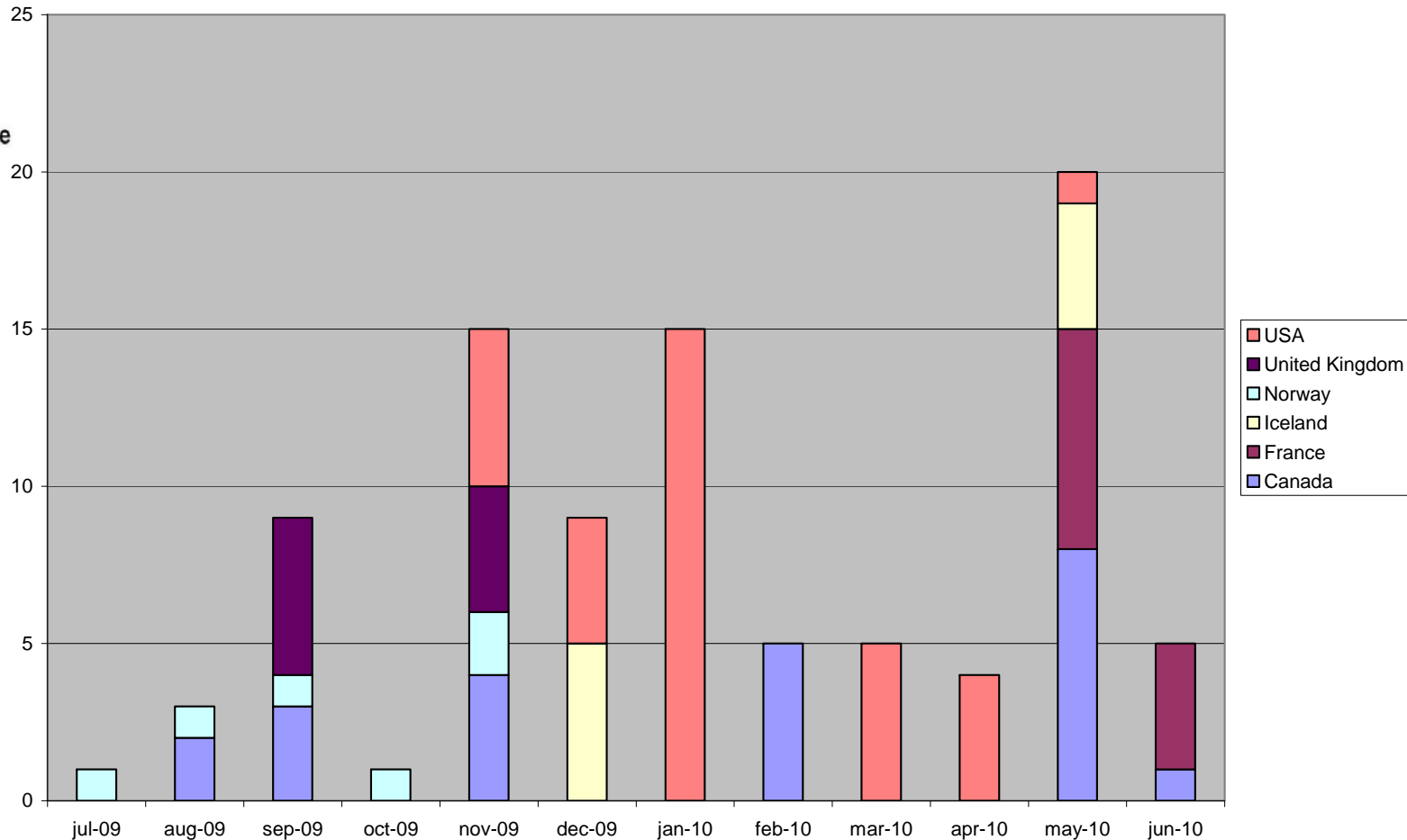


August 2010

Drifting Buoys deployed (July09 – June10) (92 (34 upgrades))



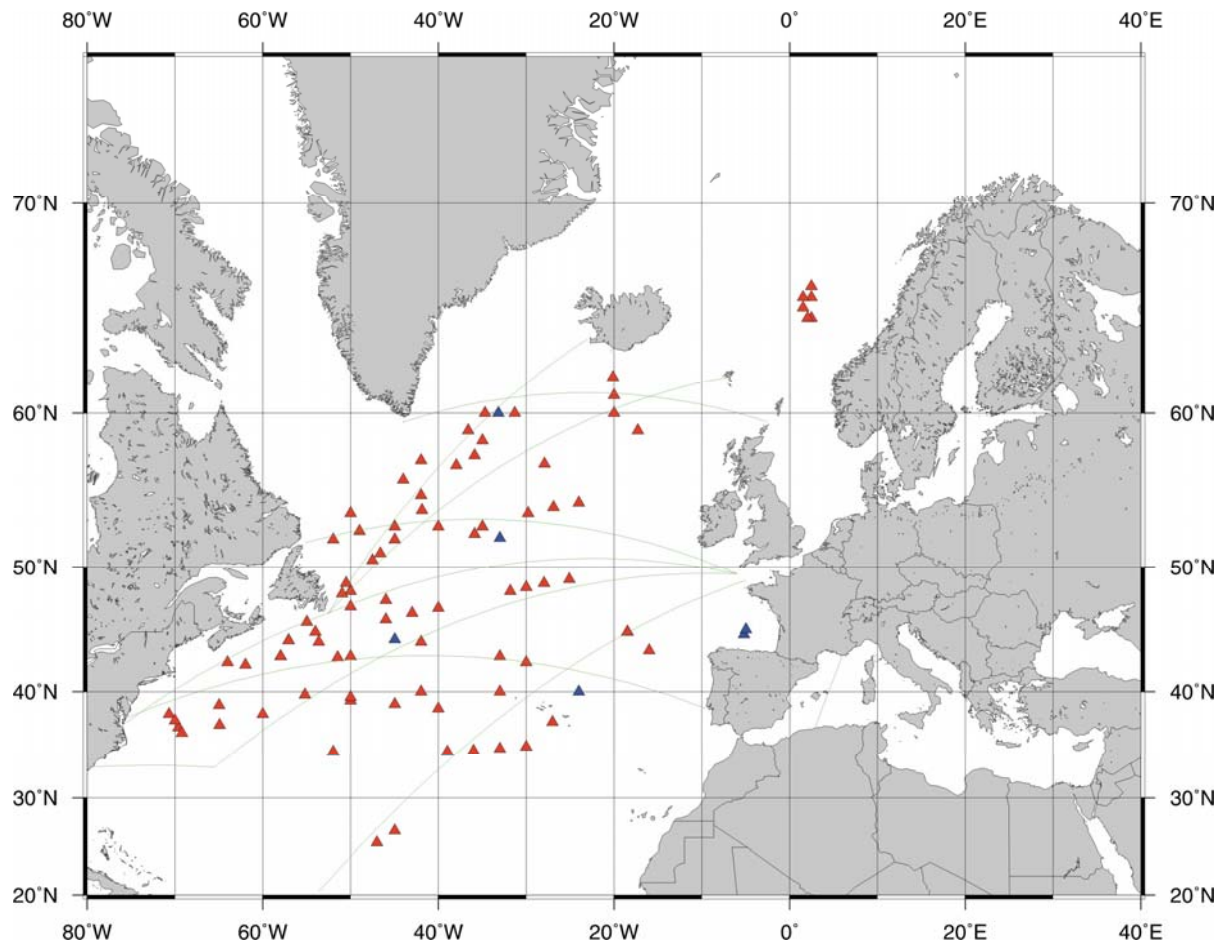
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Deployment locations



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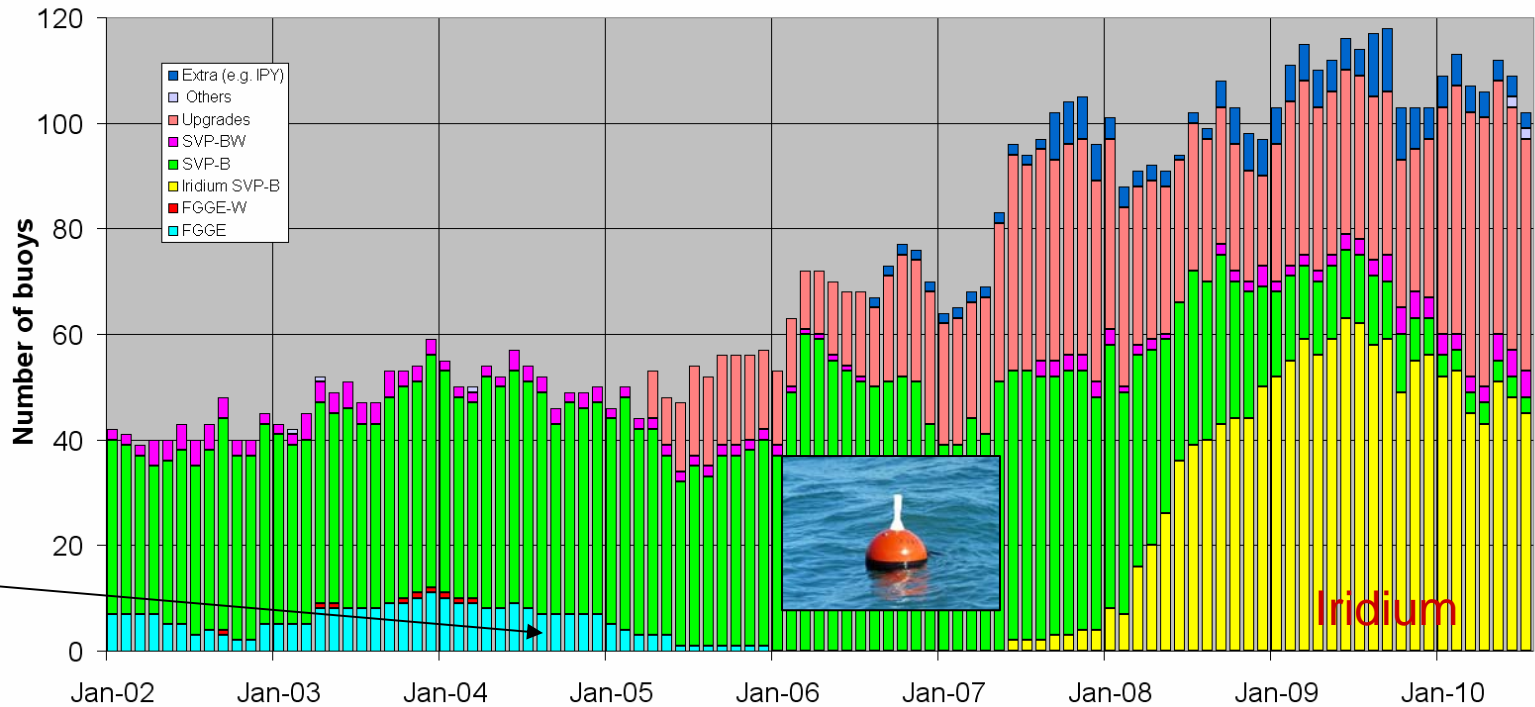


In blue: failed at deployment

Operating drifting buoys



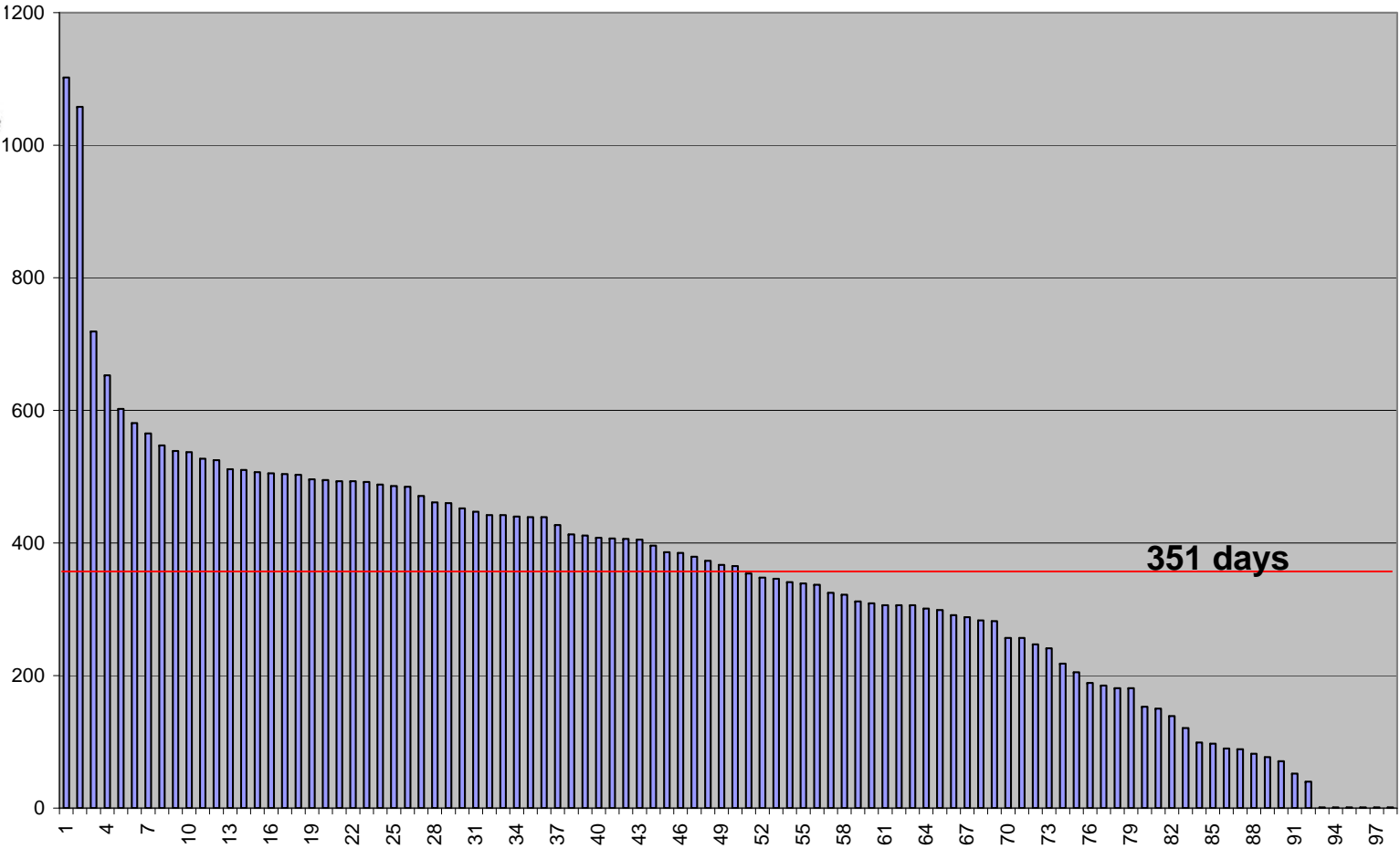
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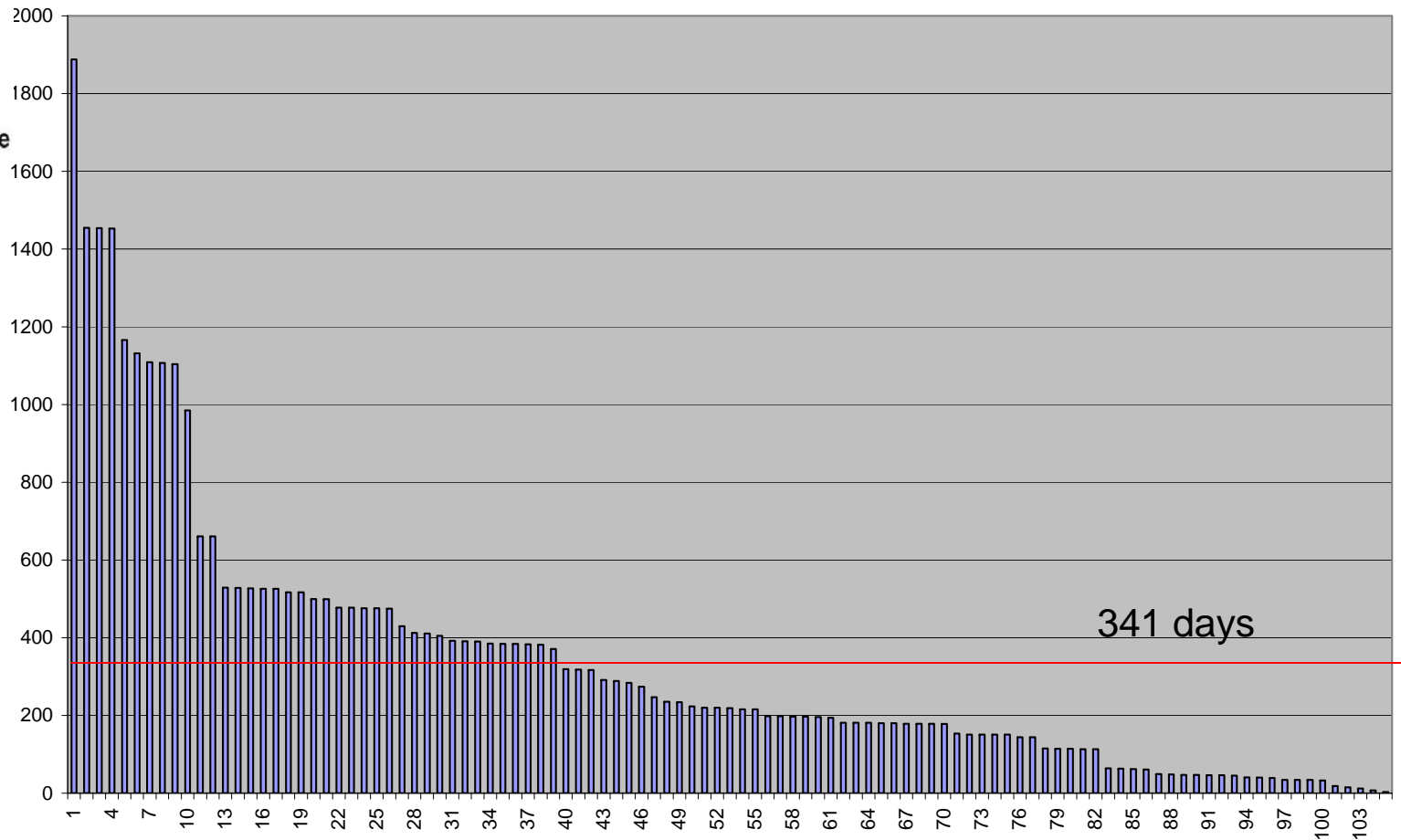
Lifetime of buoys (AP) (98 buoys)



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Age of the network (105 buoys)

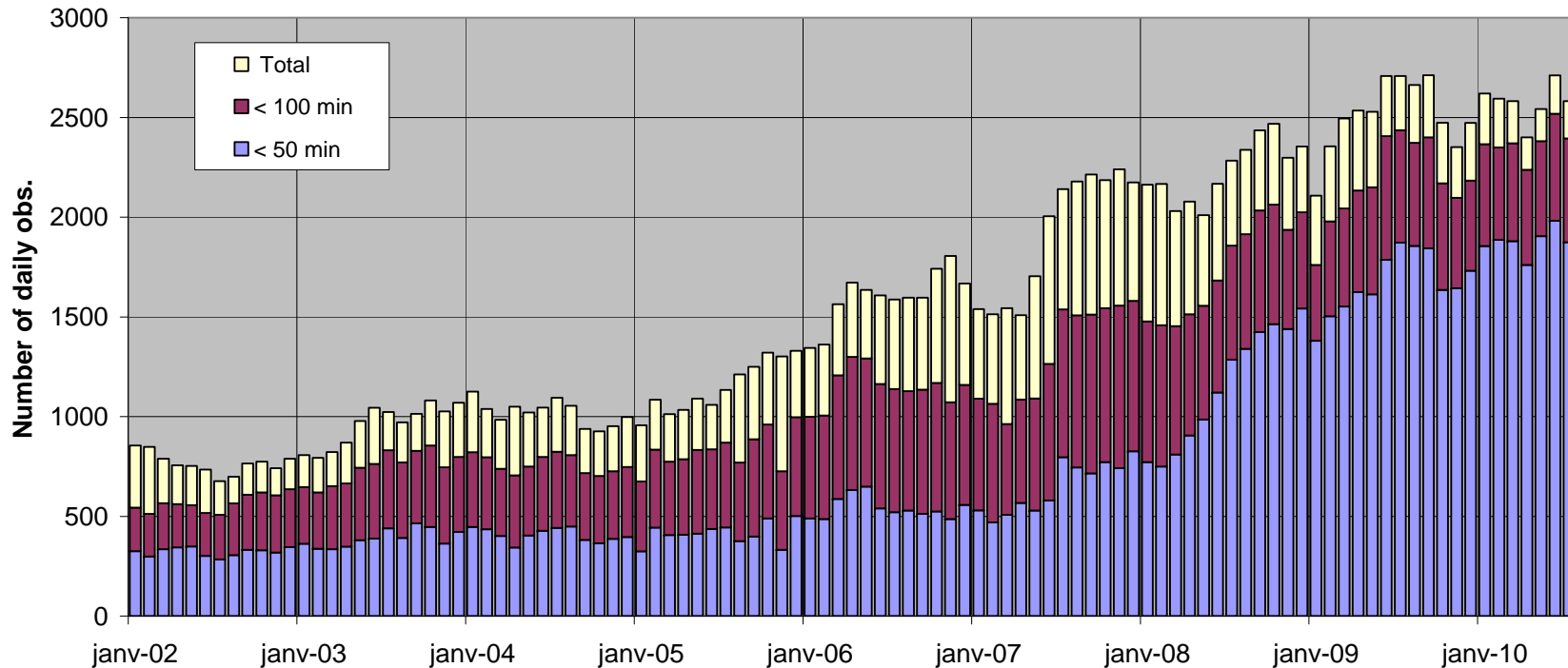


DB Number of observations



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EGOS then EUCOS drifting buoys - Data availability
Average number of hourly observations per day



Participation to IPY and EUCOS north area



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● Contribution through IABP

- 2 IcesAir 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
- 3 New ICEB (2 Argos, 1 Iridium) + 4 SVP-B (Iridium) in 2010
- + extra free buoys from 2009 (10 to MetNo + 2 to NOAA) in 2010

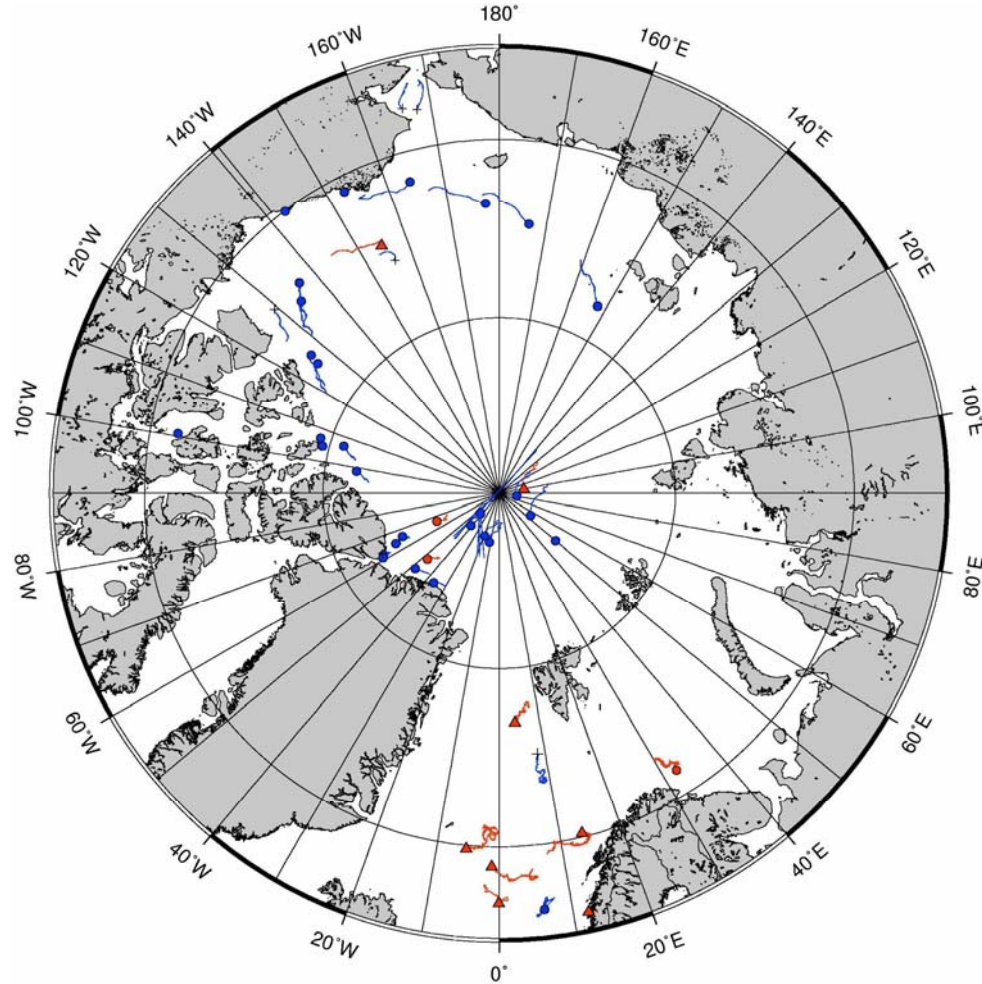


IPY (June 2010 – GTS)

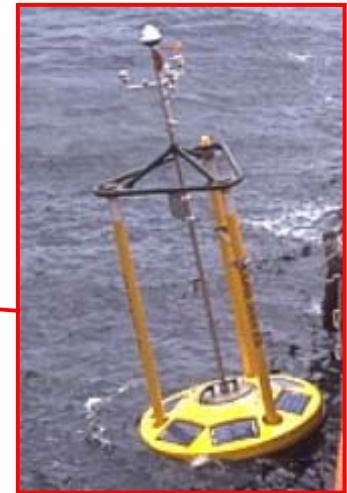
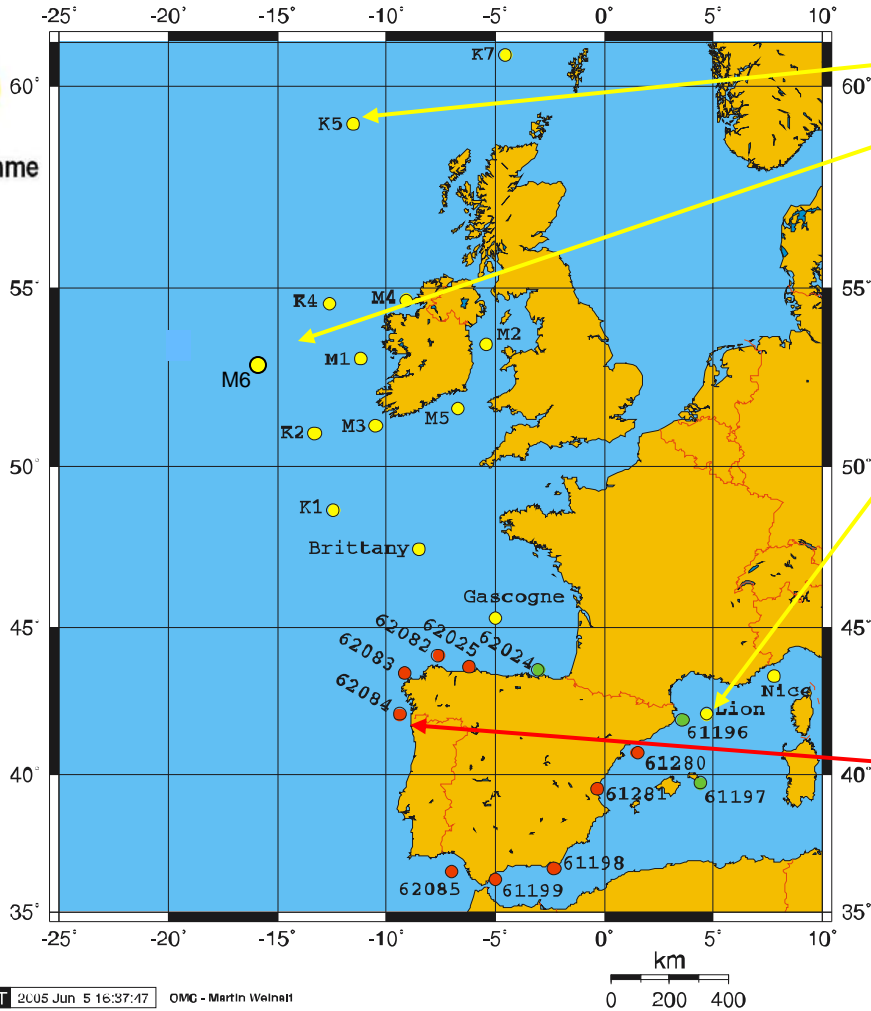


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**Triangle =
ESURFMAR drifters**



Moored buoys



E-SURFMAR Moored buoys



Surface Marine Programme

WMO	Name	Type	Country	GTS reports
64045	K5	K-pattern	UK	FM-13 SHIP
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

Day to day monitoring



Surface Marine Programme



<http://www.meteo.shom.fr/qctools/>

Quality Control Tools



Caution : data buoys WMO Ids have now 7 digits (effective from 1st of July 2010). For example : buoy WMO Id 62532 must be checked with Id 6200532 ir

<p>Data Buoys</p>	<p>Monthly Statistics</p> <p>Buoys and VOS monthly statistics...</p>	<p>Blacklists</p> <p>BUOYS Pressure (global)... BUOYS Pressure (Surfmar)... BUOYS SST (global)... BUOYS Positions (global)... DRIFTERS ASHORE... Some explanations here...</p>	<p>Daily Data plots</p> <p>Plots of data and differences with model outputs for BUOYS and VOS...</p>	<p>Other Tools</p> <p>Nearest BUOYS ... BUOYS location on map... Thermistor String BUOYS... (experimental)</p>
	<p>Vos Ships</p>	<p>Statistics of comparisons with models outputs established by different meteorological centres. Enter the parameter and the station(s) you wish.</p>	<p>VOS Pressure (Global) ... VOS Pressure (Surfmar)... VOS Positions (Global)... VOS Wind (Surfmar)... (experimental)</p>	<p>Plots of data and plots of differences with some model outputs (QC plots) over the past two weeks for buoys or VOS.</p>

Usefull Internet Links

- EUCOS Monitoring on [www.dwd.de](#) ... after login...
- Met Office Monitoring on [research.metoffice.gov.uk](#)...
- EUMETSAT SAF Ocean comparisons with satellite SST on [saf.met.no](#)...
- iQuam - NOAA/NESDIS/STAR Quality Monitor for in situ Sea Surface Temperatures...
- Density maps : Observations density maps on different periods...
- Network Status JCOMM in-situ Observing Platform Support centre (real-time maps and statistics)...
- A link to send feedbacks on dubious obs to data responsables through JCOMM Quality Control Relay ...

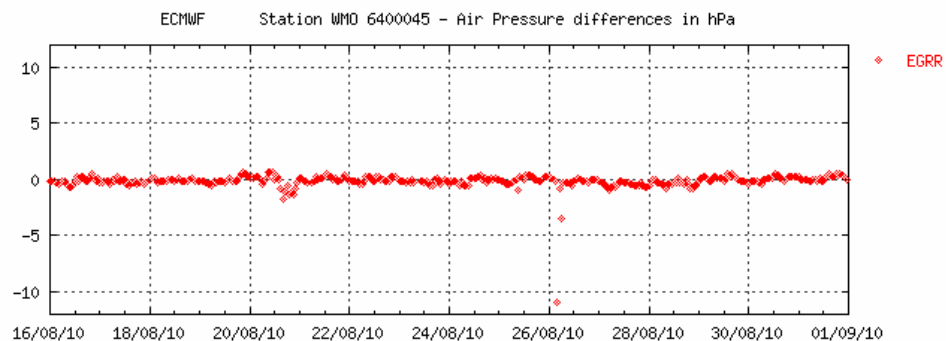
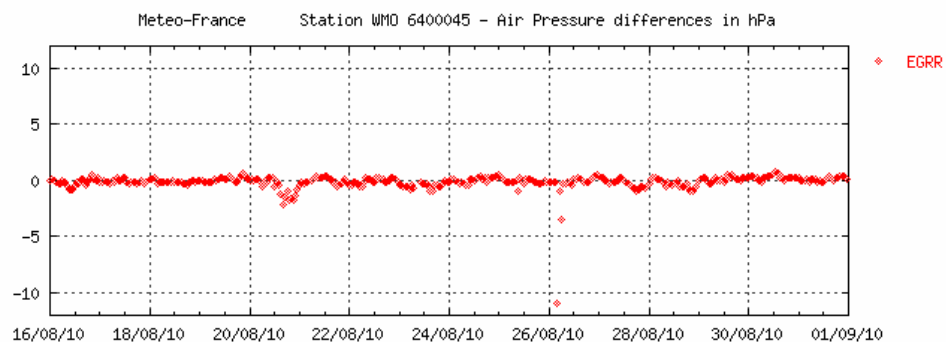
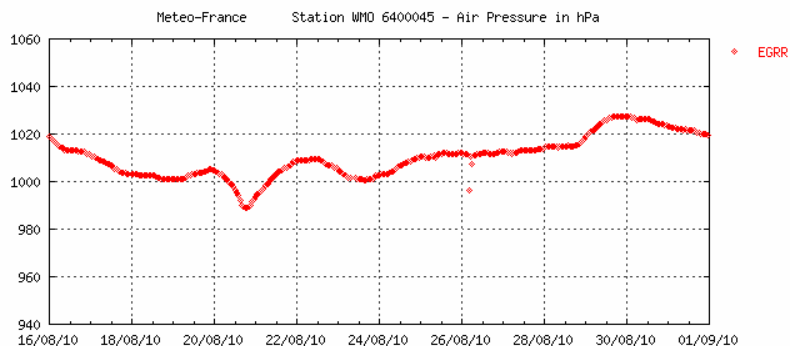


Day to day monitoring



Surface Marine Programme

<http://www.meteo.shom.fr/qctools/>



E-SURFMAR Programme

Data Buoys Reporting



Monthly report

Annual report

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

<http://esurfmar.meteo.fr/>

A public website

<http://www.eucos.net>



METEO FRANCE

Toujours un temps d'avance