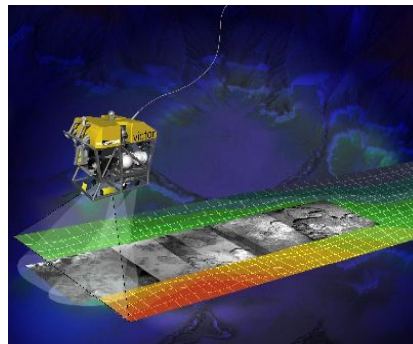


Activities of the French Oceanographic Fleet in the Mediterranean Sea (2011-2017)

Pascal Morin
FOF Scientific Director





News from the new organisation of the French Oceanographic Fleet

Research vessels operating in the Mediterranean Sea (2011-2017)

Activities of the Global Class ships in the Mediterranean Sea

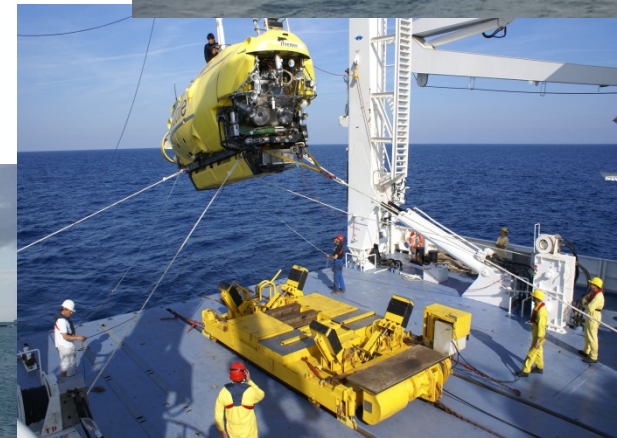
Activities of the Coastal Class ships in the Mediterranean Sea

Activities of the Local Class ships in the Mediterranean Sea



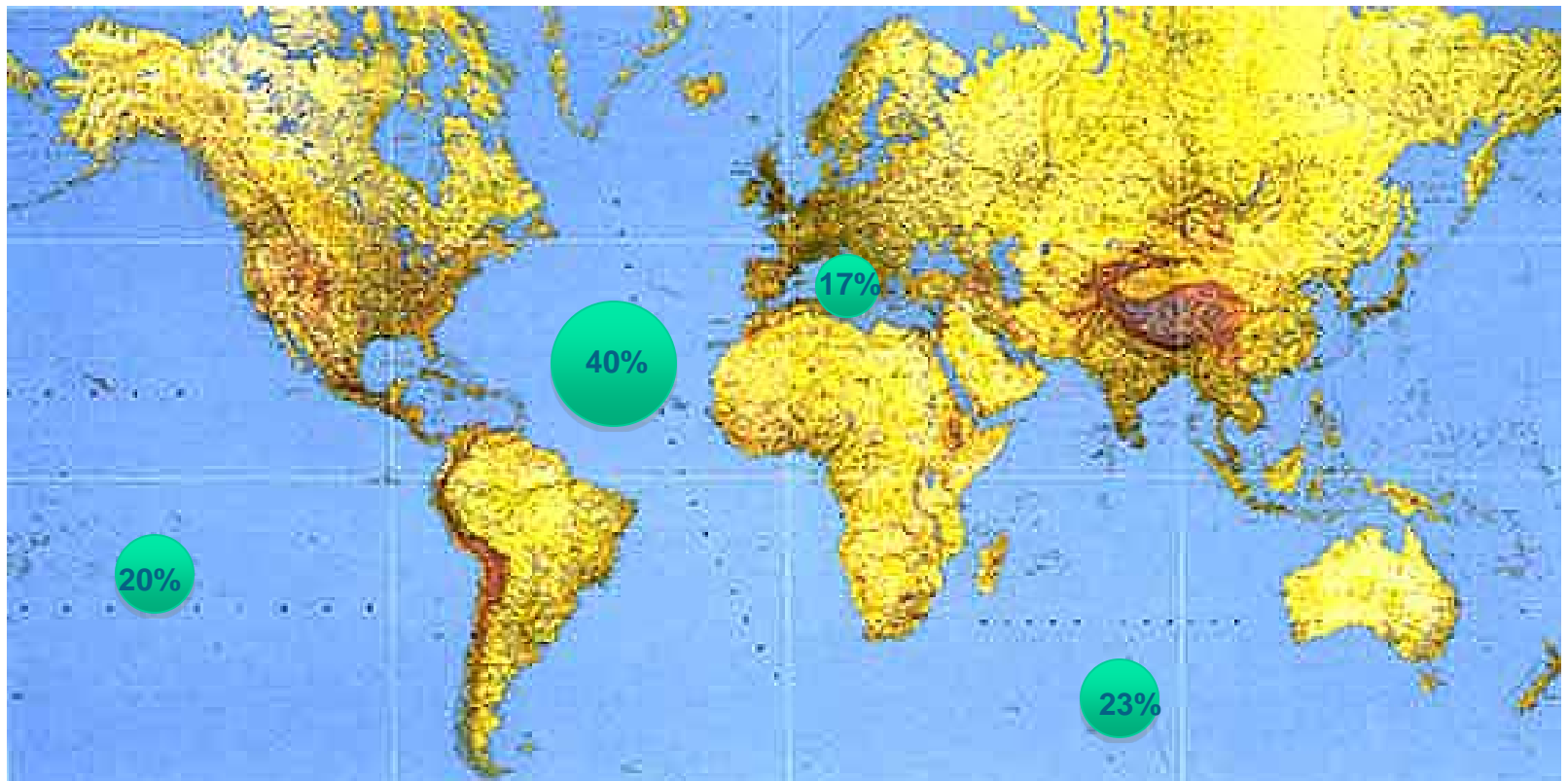
French Oceanographic Fleet

Four Global Class ships all oceans,
Two Regional Class ships with an overseas pre positioning,
Five Coastal Class ships,
Seven Local ships in the marine stations,
Mondial Class Underwater vehicles.



All oceans capacity

- Capacity of deployment in all oceans, excepted in the polar areas.



- Diversity of coastal/local ships for a continuum of oceanographic cruises in the coastal zones from the coast to the shelf_break.
- Mean of more than 40 oceanic cruises, 70 coastal cruises and numerous cruises using the local ships



News from the new organisation of the French Oceanographic Fleet

Research vessels operating in the Mediterranean Sea (2011-2017)

Activities of the Global Class ships in the Mediterranean Sea

Activities of the Coastal Class ships in the Mediterranean Sea

Activities of the Local Class ships in the Mediterranean Sea



Oceanographic Fleet in the Mediterranean Sea (2011-2017) – 2 Global and 1 Regional Class Ships

R/V L'Atalante



R/V Pourquoi Pas ?



R/V Le Suroît

Oceanographic Fleet in the Mediterranean Sea (2011-2017) – 2 Coastal Class Ships

R/V Tethys II



R/V L'Europe



Oceanographic Fleet in the Mediterranean Sea (2011-2017) – 3 LocalClass Ships



R/V Antedon II - Marseille



R/V Nereis II - Banyuls



R/V Sagitta III - Villefranche



News from the new organisation of the French Oceanographic Fleet

Research vessels operating in the Mediterranean Sea (2011-2017)

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Activities of the Local Class ships in the Mediterranean Sea



Oceanographic Fleet in the Mediterranean Sea (2011-2017) – 2 Global and 1 Regional Class Ships

R/V L'Atalante



R/V Pourquoi Pas ?



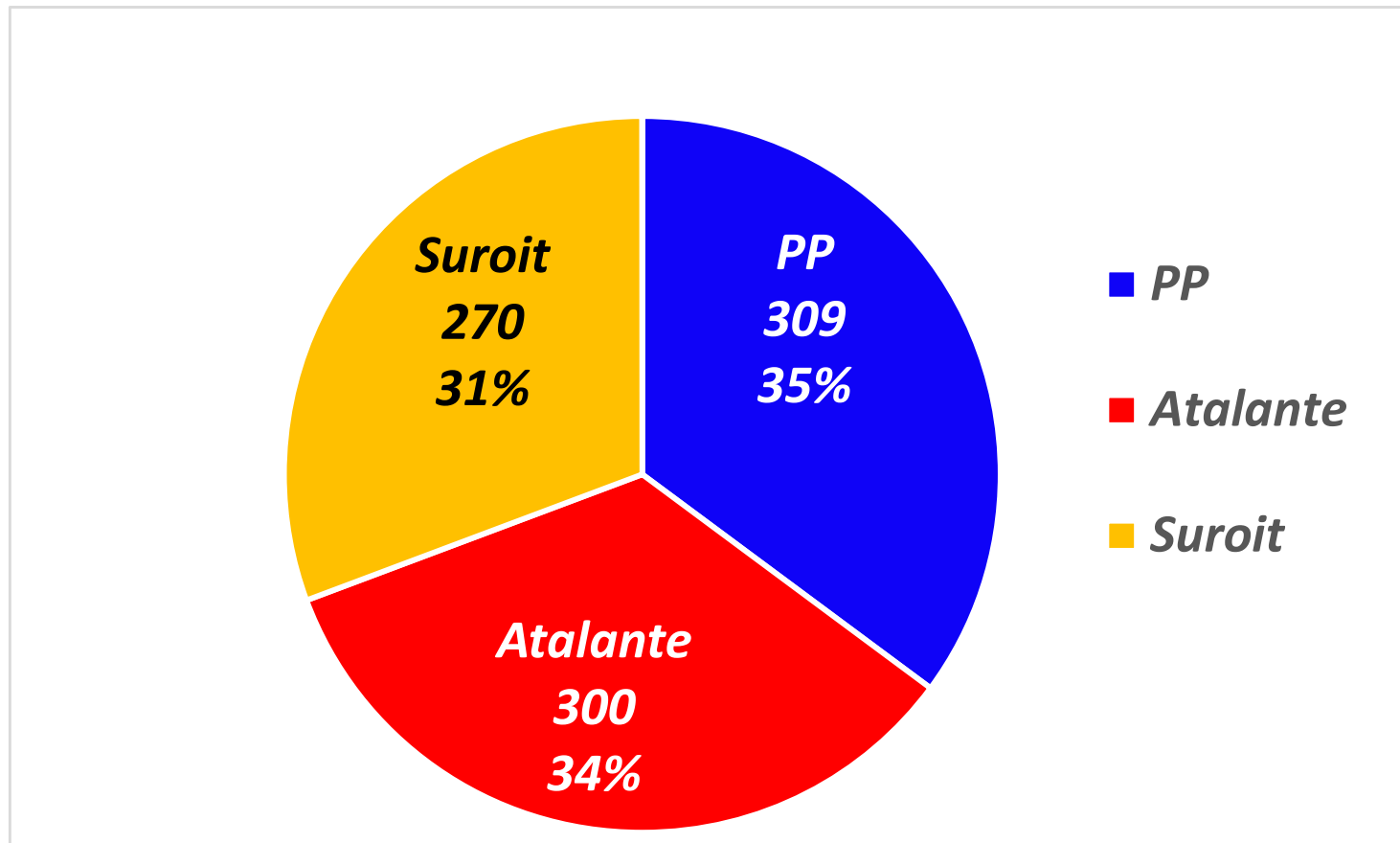
- ***Multidisciplinary cruises***
- ***> 10 scientists***
- ***Duration: 10-40 days***



R/V Le Suroît

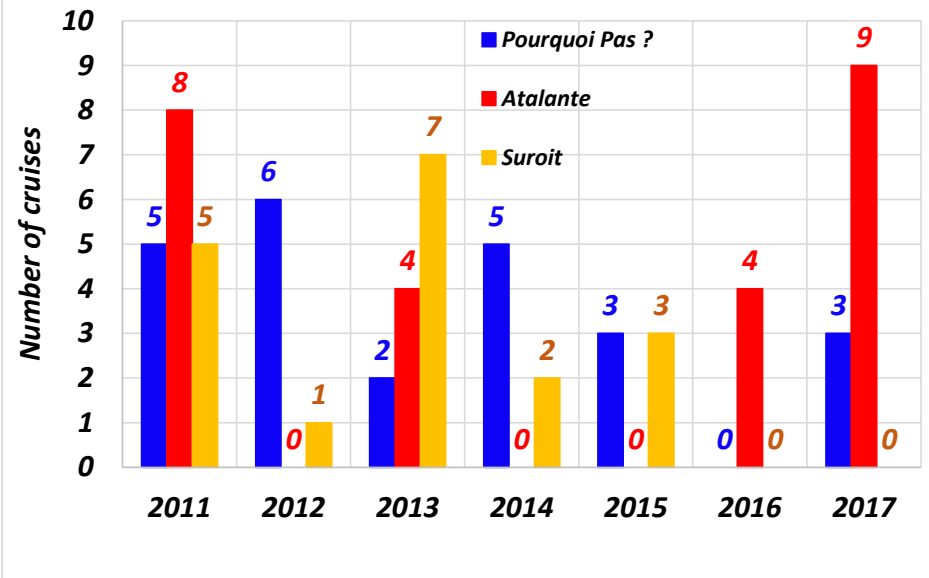
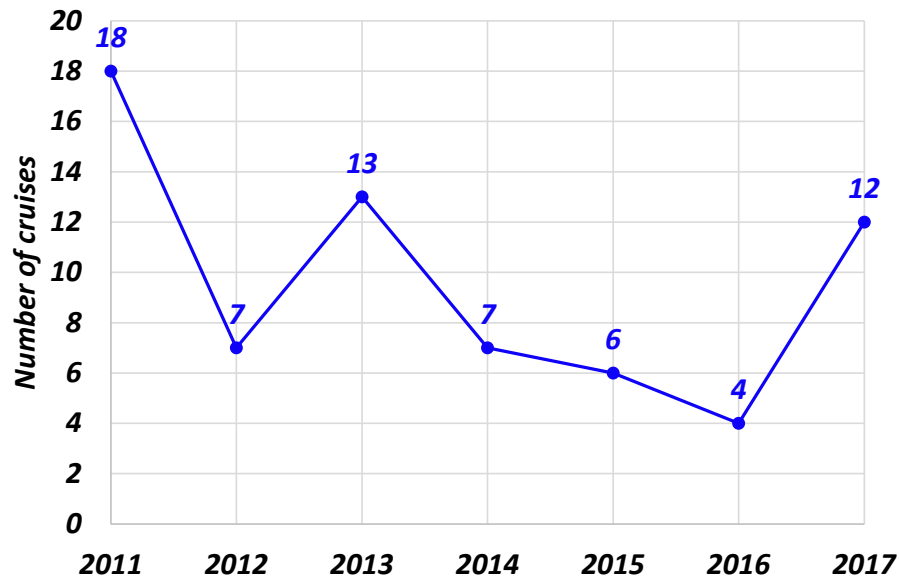
Oceanographic Fleet in the Mediterranean Sea

Total number of days (2011-2017) = 879 days



Oceanographic Fleet in the Mediterranean Sea (2011-2017)

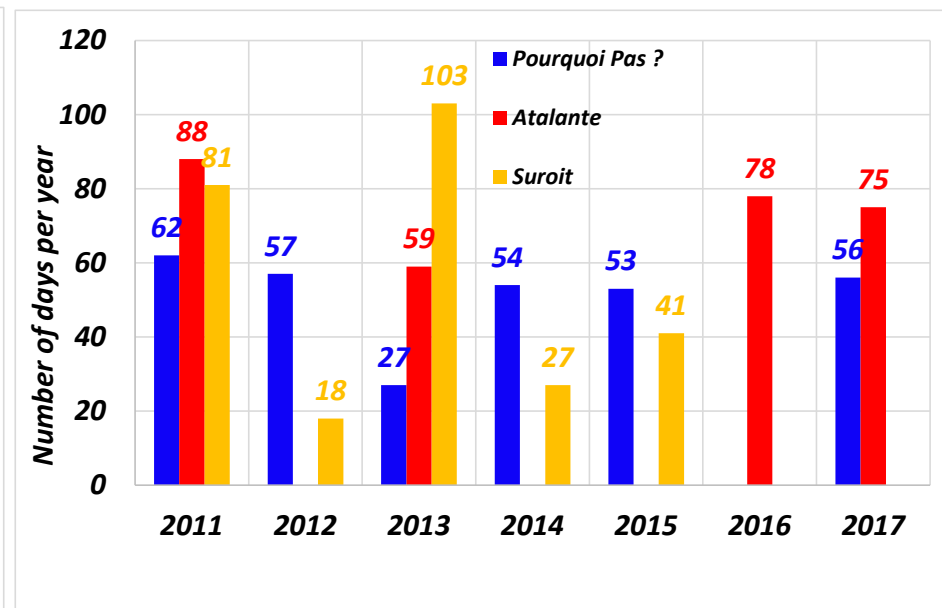
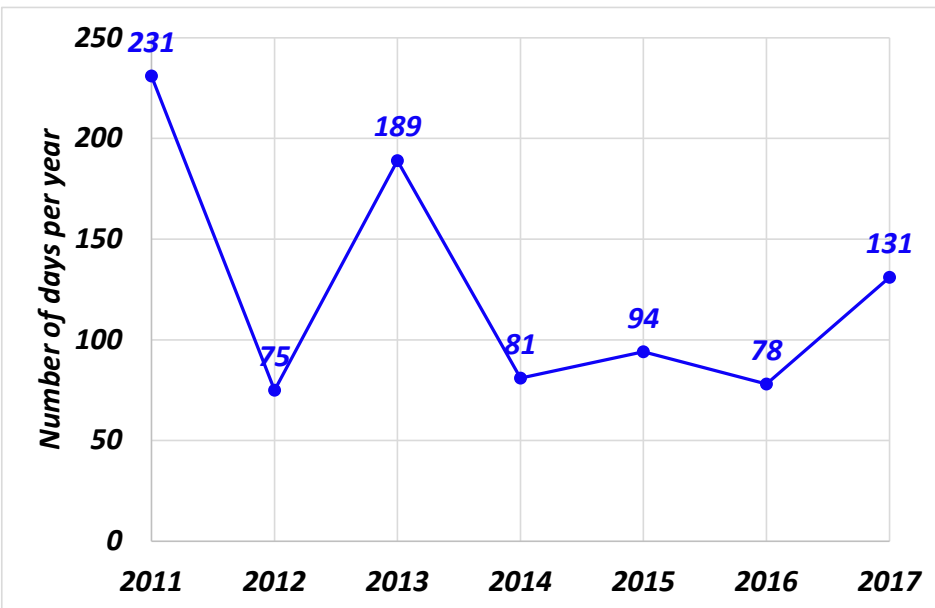
Number of cruises per year



67 cruises in the Mediterranean Sea
Mean: 9,5 cruises per year

Oceanographic Fleet in the Mediterranean Sea (2011-2017)

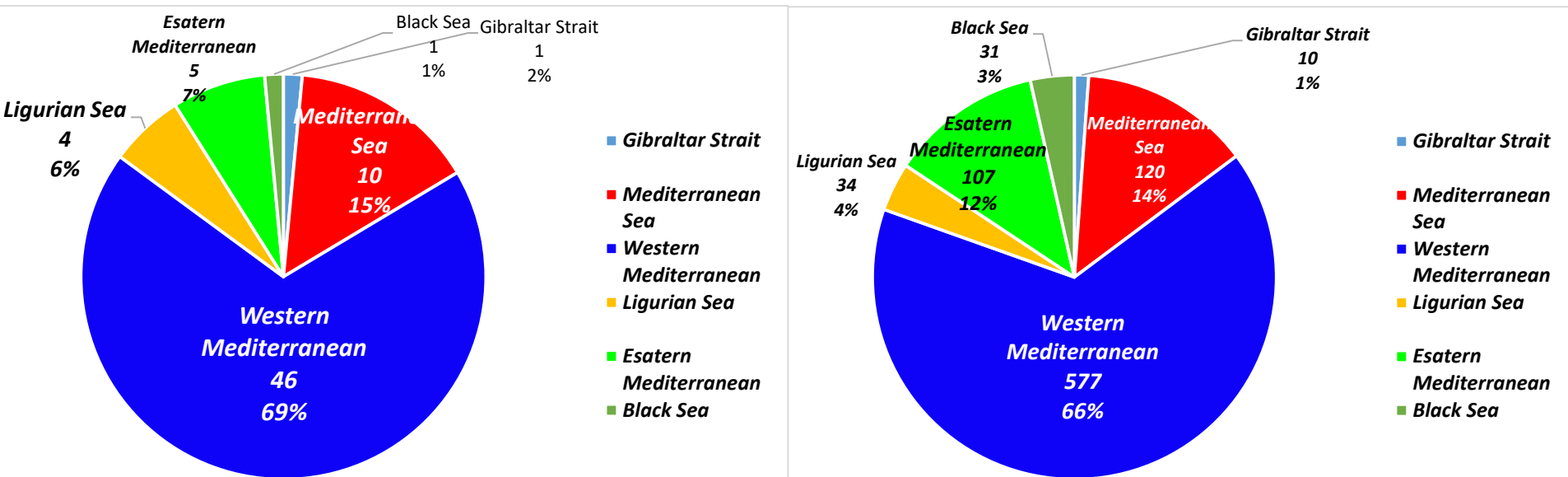
Number of days per year



879 days in the Mediterranean Sea
Mean: 125,5 days per year

Oceanographic Fleet in the Mediterranean Sea (2011-2017)

Number of cruises and days by basins and seas



Main activities in the Western Basin: > 70%



News from the new organisation of the French Oceanographic Fleet

Research vessels operating in the Mediterranean Sea (2011-2017)

Activities of the Global Class ships in the Mediterranean Sea

Activities of the Coastal Class ships in the Mediterranean Sea

Activities of the Local Class ships in the Mediterranean Sea



Oceanographic Fleet in the Mediterranean Sea (2011-2017) – 2 Coastal Class Ships

R/V Tethys II

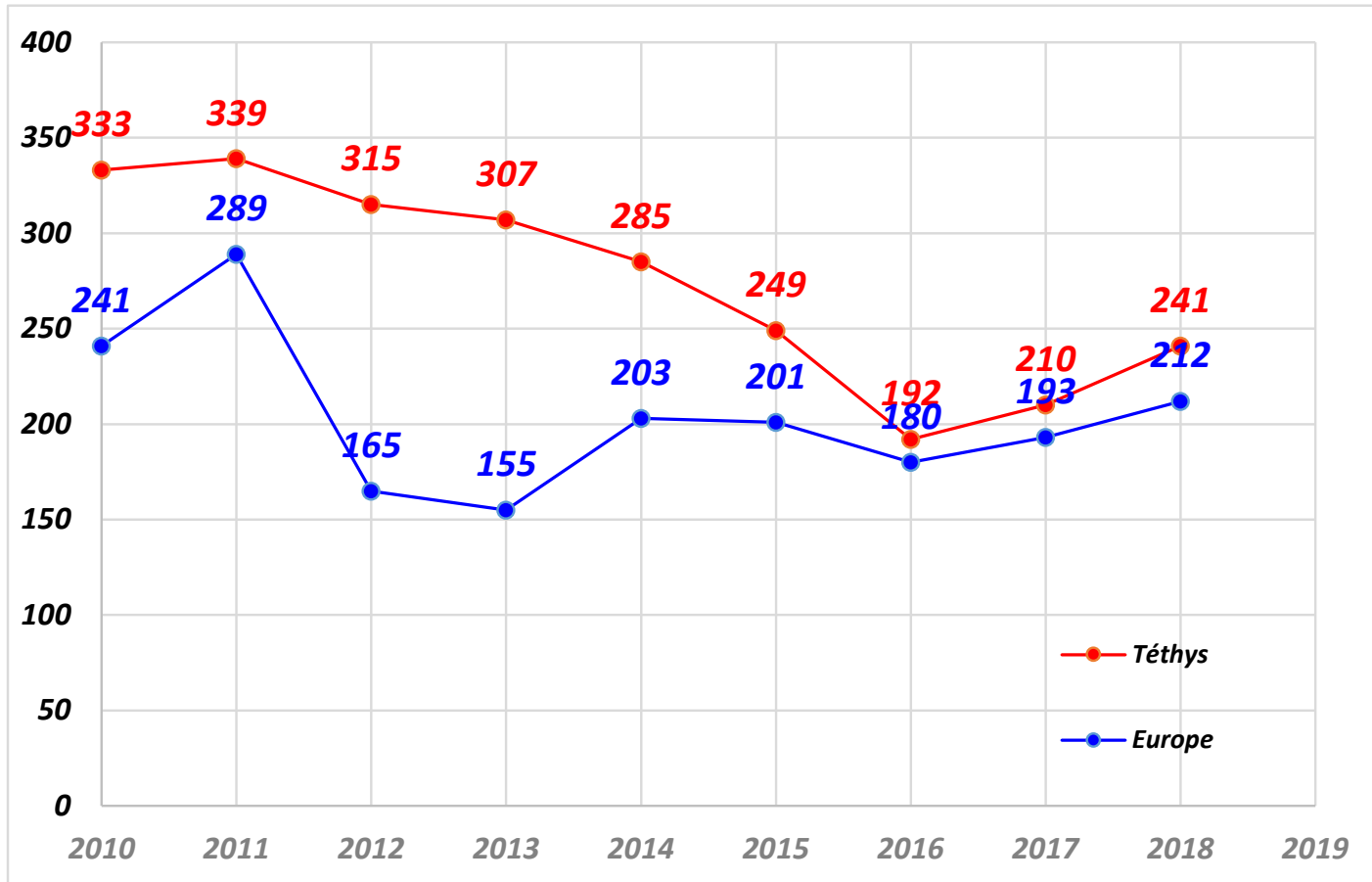


R/V L'Europe



- ***disciplinary or bi-disciplinary cruises***
- ***6 - 10 scientists***
- ***Duration: 2-35 days***

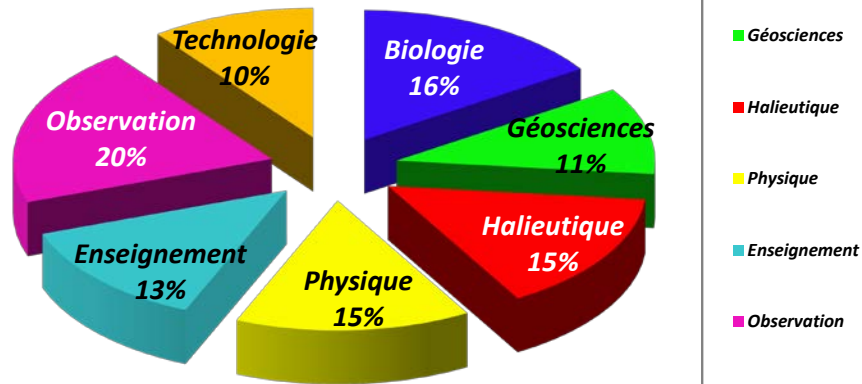
Oceanographic Fleet in the Mediterranean Sea Coastal class ships (2011-2017) – 3379 days



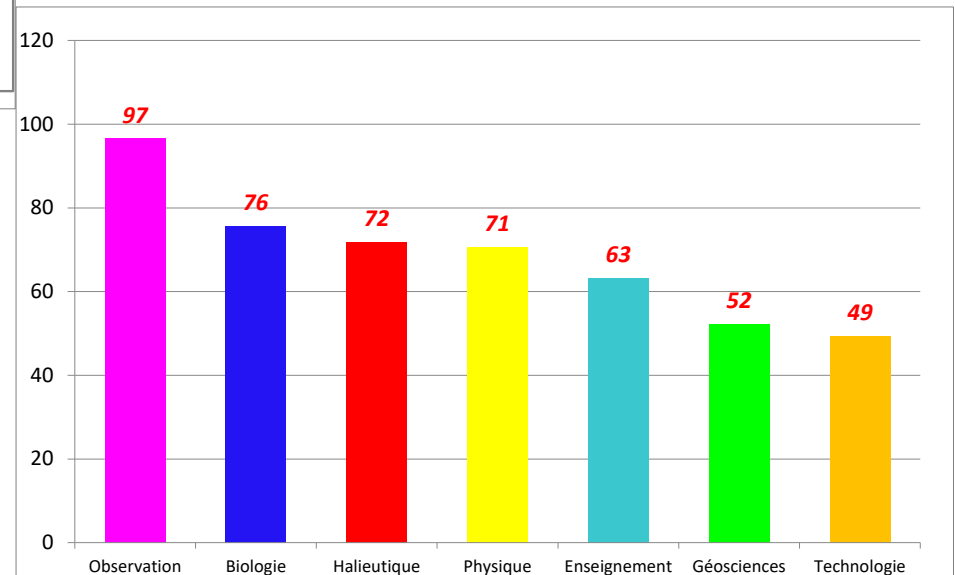
Mean number of days per year: 198 days (Europe) and 285 days (Téthys)

Oceanographic Fleet in the Mediterranean Sea

Coastal class ships (2011-2017) – 3379 days



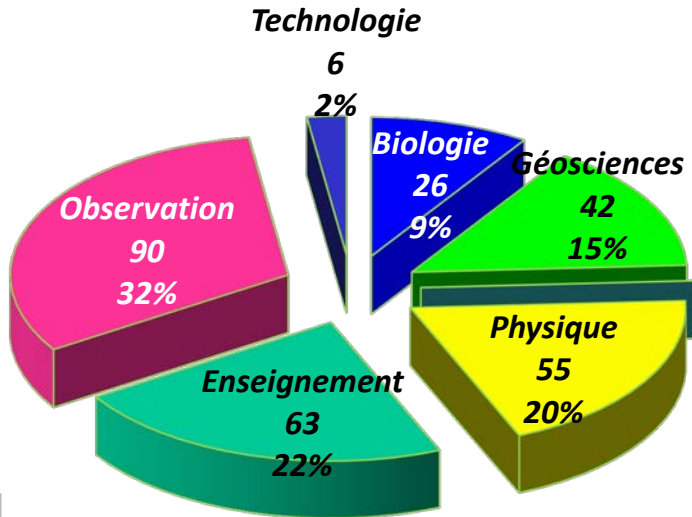
Mean annual activity per discipline



Mean annual number of days per discipline

Oceanographic Fleet in the Mediterranean Sea

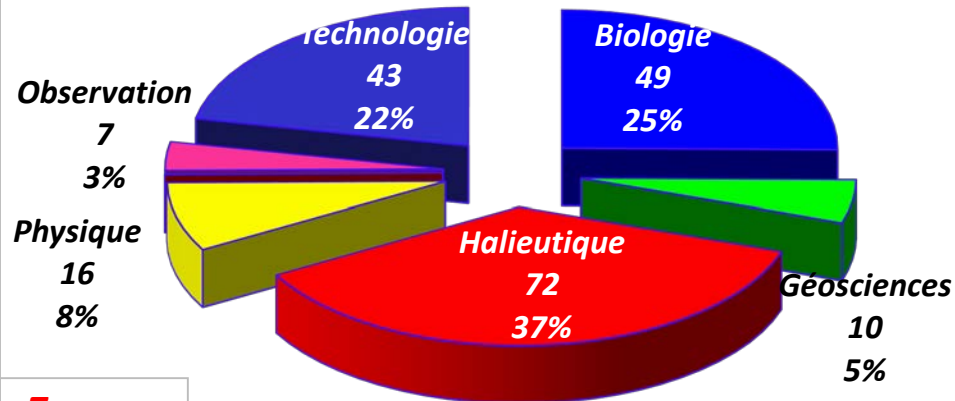
Coastal class ships (2011-2017) – 3379 days



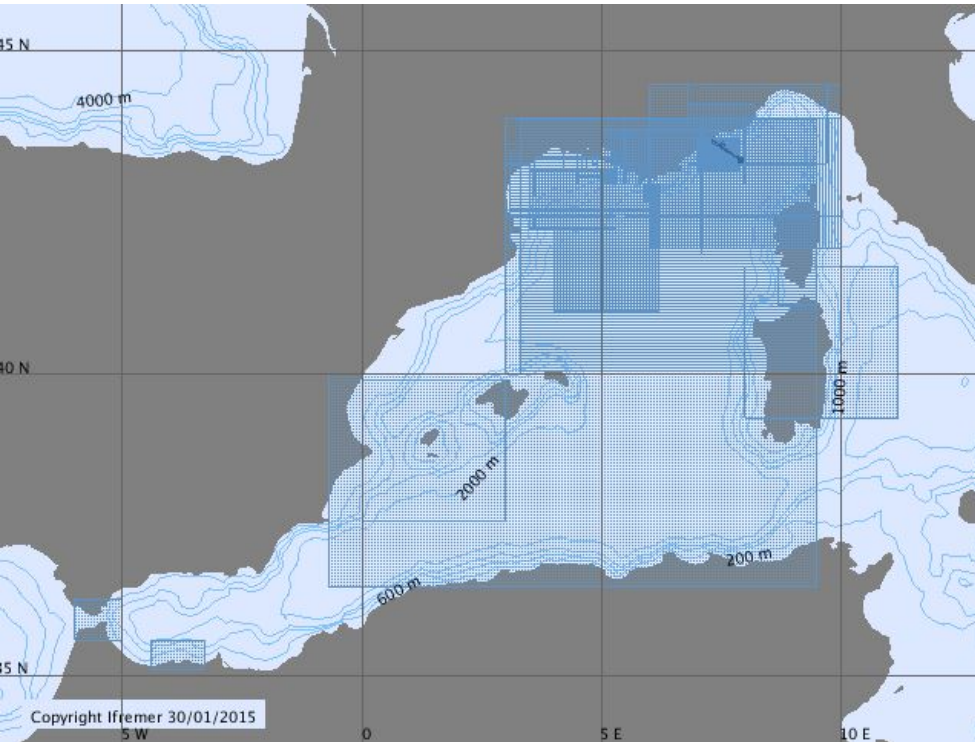
Téthys Mean annual activity per discipline

Téthys

Europe Mean annual activity per discipline

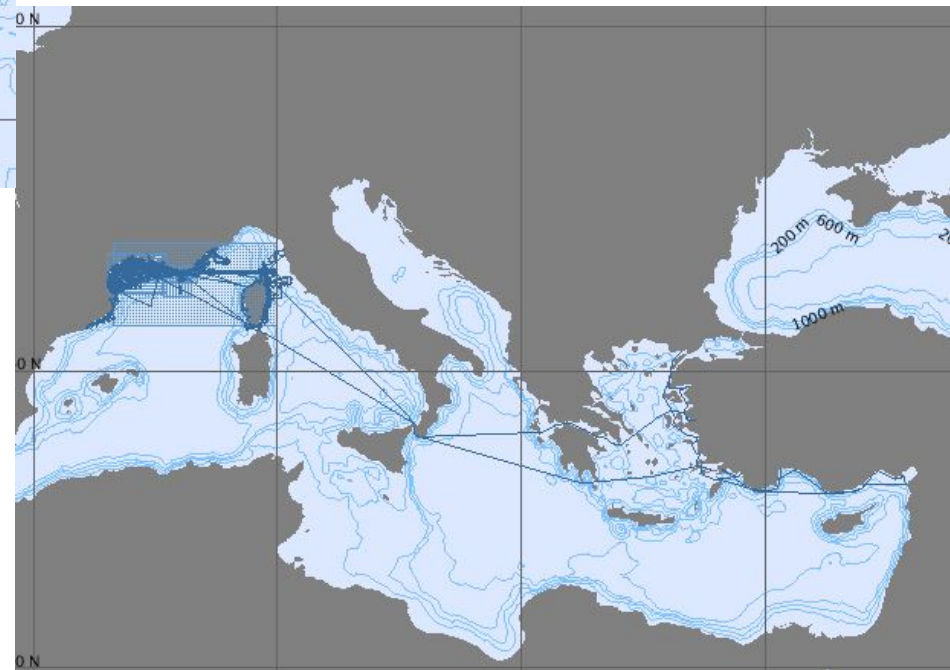


Europe



Tethys activity in the
Mediterranean Sea:
in the Western Basin

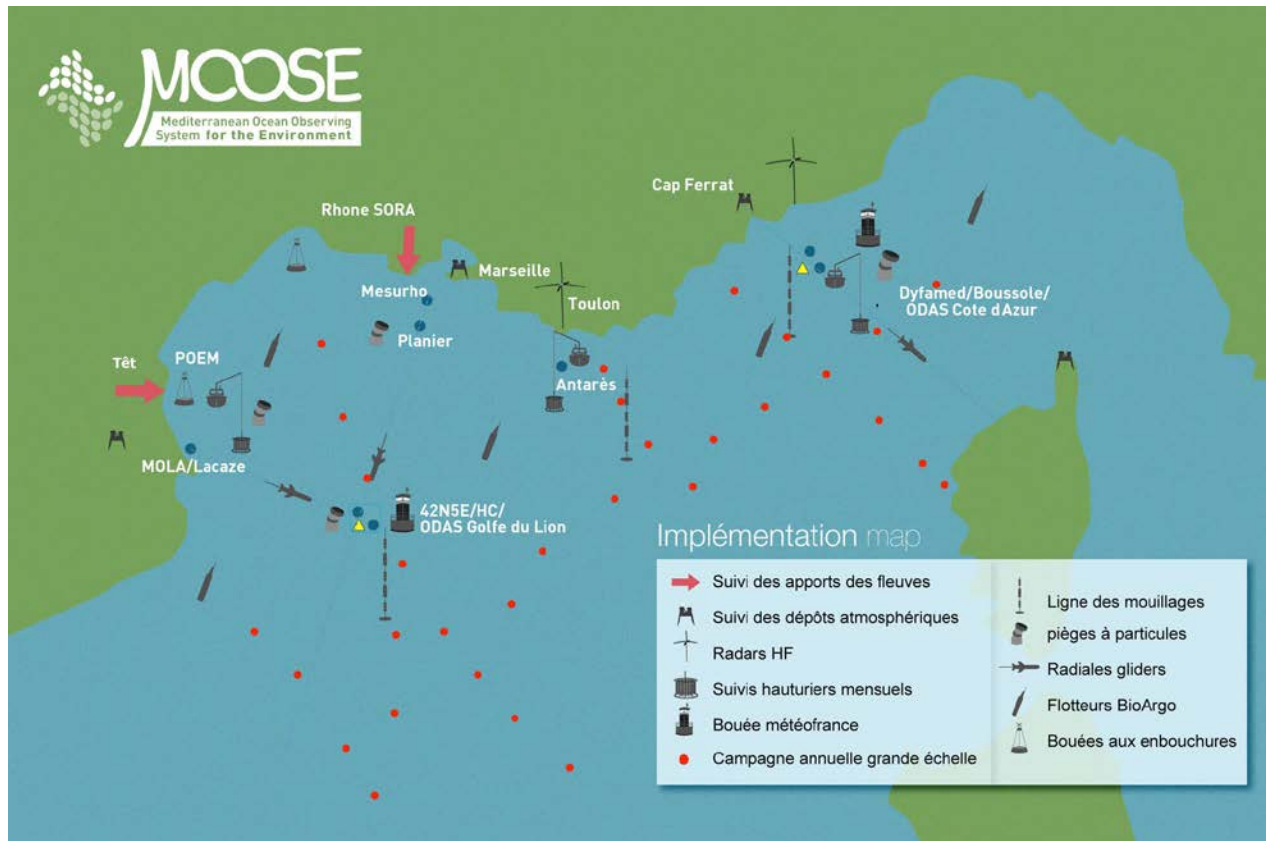
Europe activity in the
Mediterranean Sea: mostly
in the Western Basin



Time Series of Observation: cruises MOOSE: MIO Marseille, Banyuls, Villefranche, LOCEAN

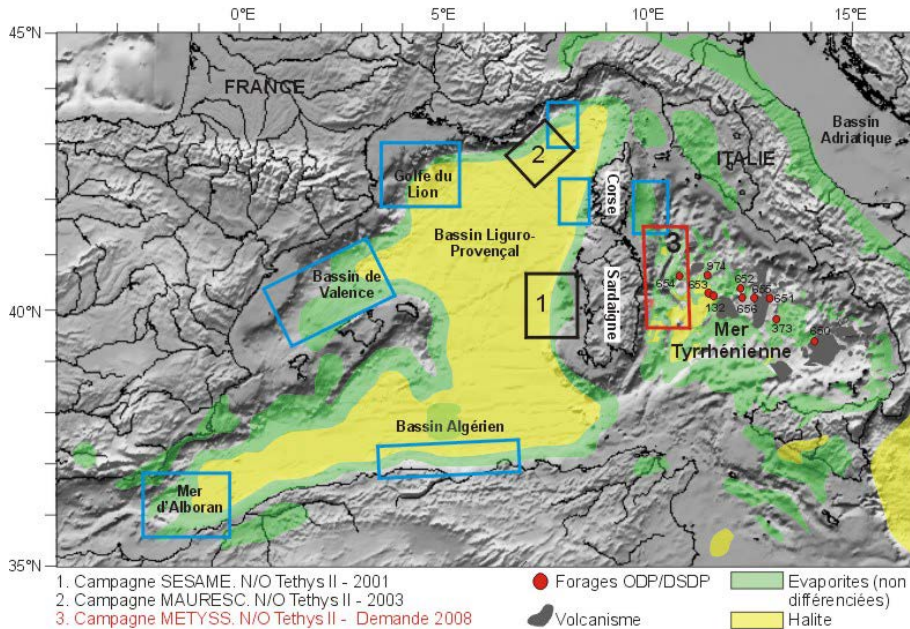


Western Mediterranean Sea



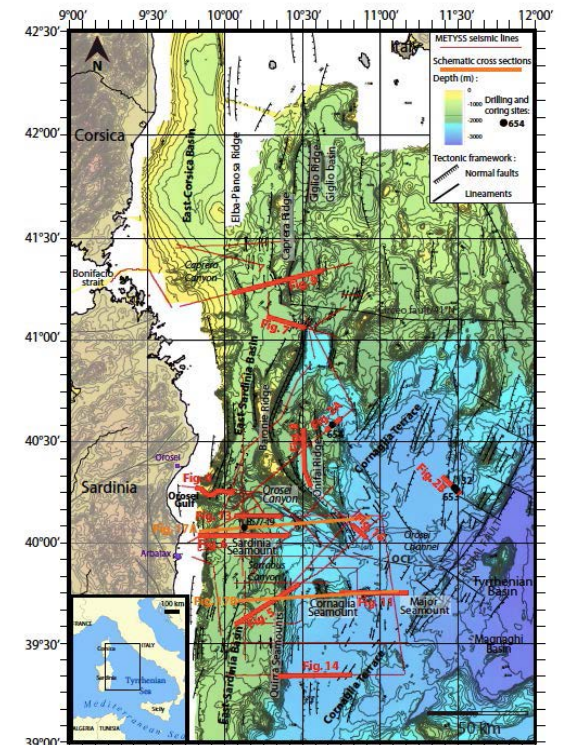
- *River inputs*
- *Atmospheric deposition*
- *Instrumented Buoys*
- *Gliders sections*
- *Hydrological sections*
- *Meteorological buoys*
- *Sediment traps*
- *HF radars*

Marine Geosciences: METYSS cruises: LOG Lille University



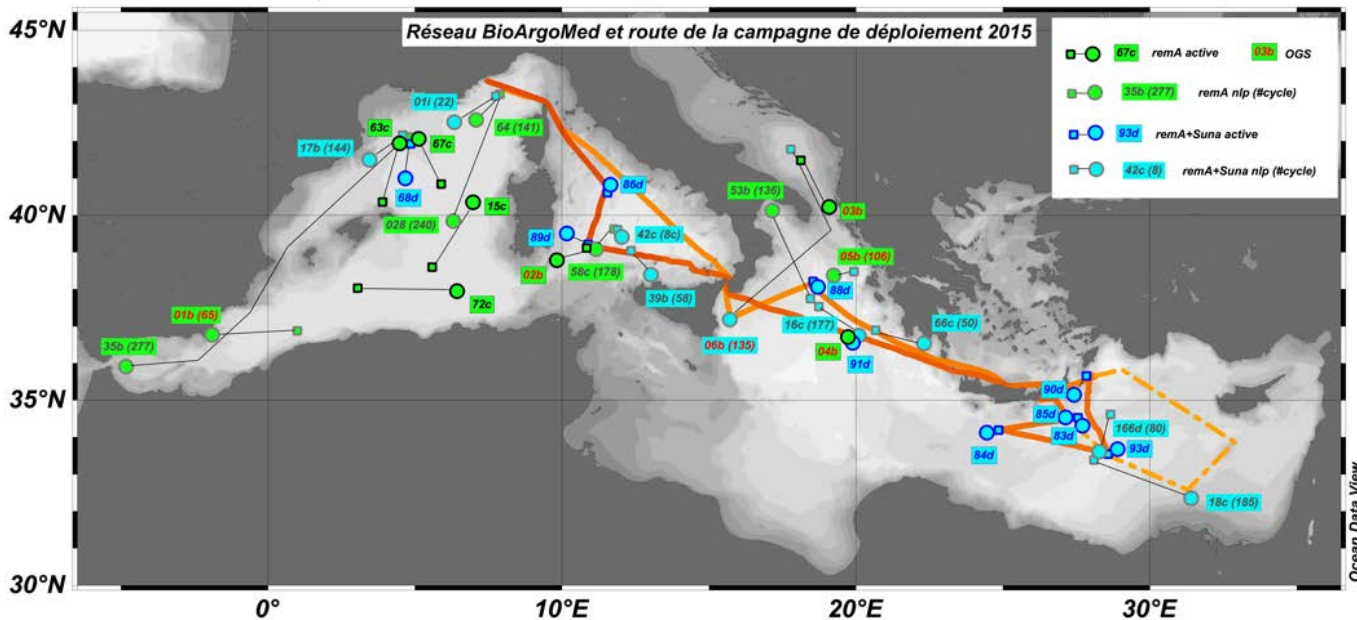
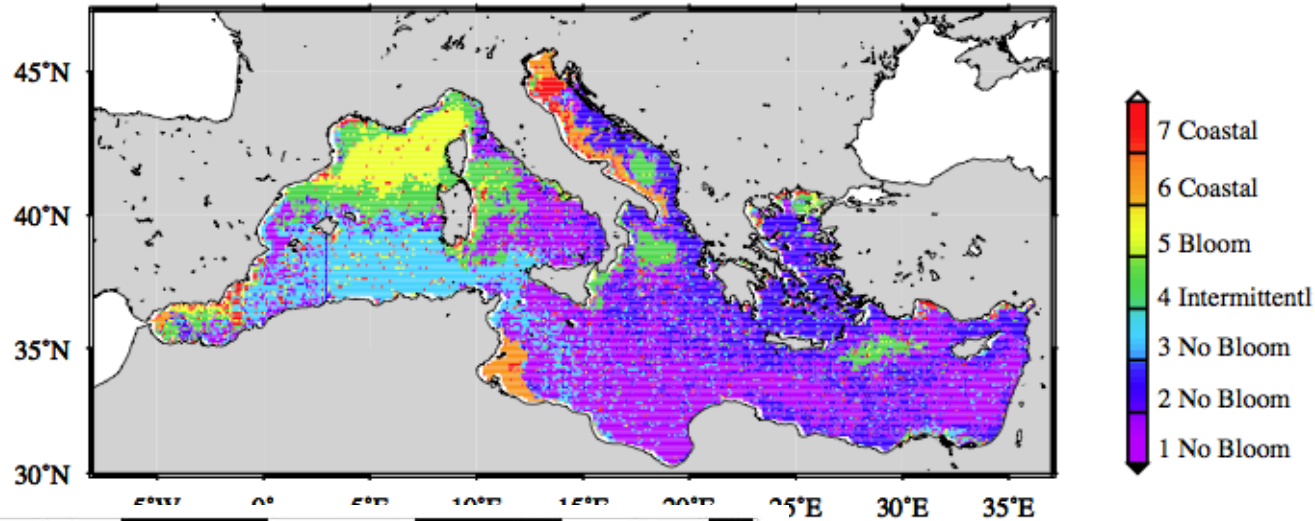
Integrated study using seismic markers of the Messinian Salinity Crisis at the Mediterranean Basin scale with a novel approach using a comparative multi-site study on different tectono-sedimentary margins and basins

Structural complexity of East Sardinia margin since 6 Ma and importance of vertical movements since the opening of the Tyrrhenian basin and existence of a post-pliocene post-rift tectonics



Physical Oceanography and Biogeochemistry : BioArgoMed cruise: LOV CNRS

Biogeographical provinces in the Mediterranean Sea by an analysis of temporal surface chl a time series (D'Ortenzio and D'Alcala)



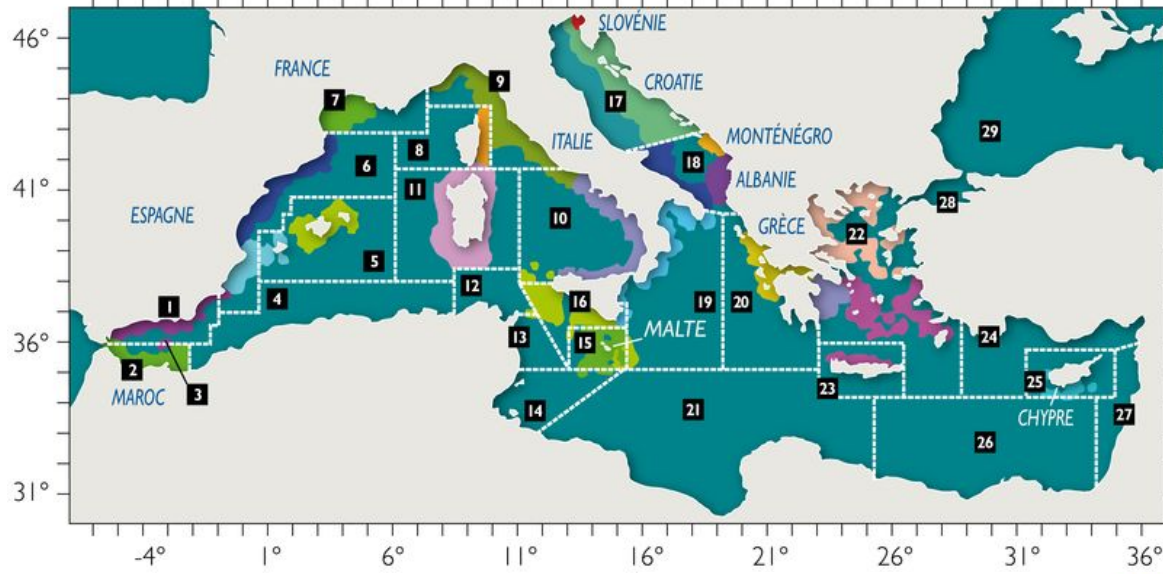
BioArgo network of buoys deployed in the Med Sea (T, S, O₂, Chl a , CDOM, PAR) since 2015

Ocean Data View

Fisheries: cruises MEDITS: Ifremer Sète

Stock evaluation of demersal fishes in the Mediterranean since 1993

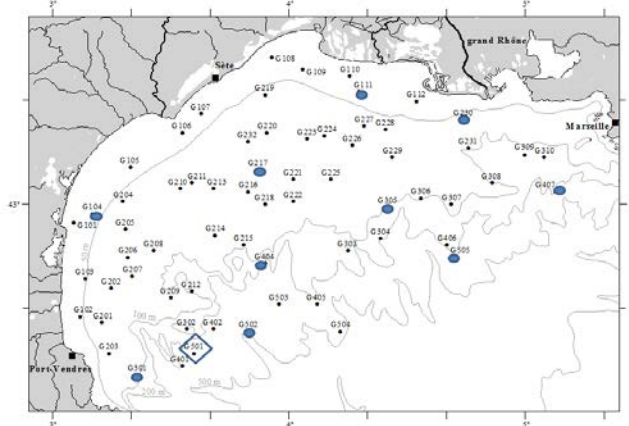
12 European Mediterranean countries: Spain, Italy, France, Greece, Cyprus, Malta, Slovénia, Croatia, Montenegro and Albany) and since 2009 in Black Sea: Romania et Bulgaria.



Cruises MEDITS in France are done in the Gulf of Lions and east Corsica

MEDITS

● stations WP2 et CTD
◇ Trait G501: croches 2012 et 2015



MEDITS

● stations WP2 et CTD





News from the new organisation of the French Oceanographic Fleet

Research vessels operating in the Mediterranean Sea (2011-2017)

Activities of the Global Class ships in the Mediterranean Sea

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Oceanographic Fleet in the Mediterranean Sea (2011-2017) – 3 LocalClass Ships



R/V Antedon II - Marseille



R/V Nereis II - Banyuls

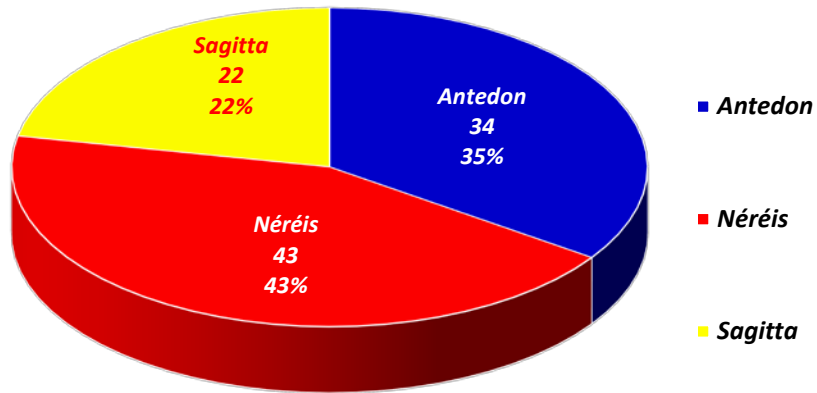


R/V Sagitta III - Villefranche

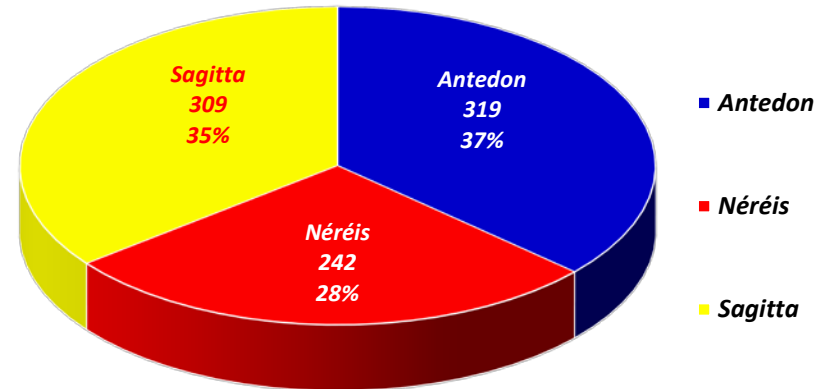
- ***disciplinary cruises***
- ***1-5 scientists***
- ***Duration: 0.5-7 days***

Oceanographic Fleet in the Mediterranean Sea

Local class ships (2014-2017) – 2860 days



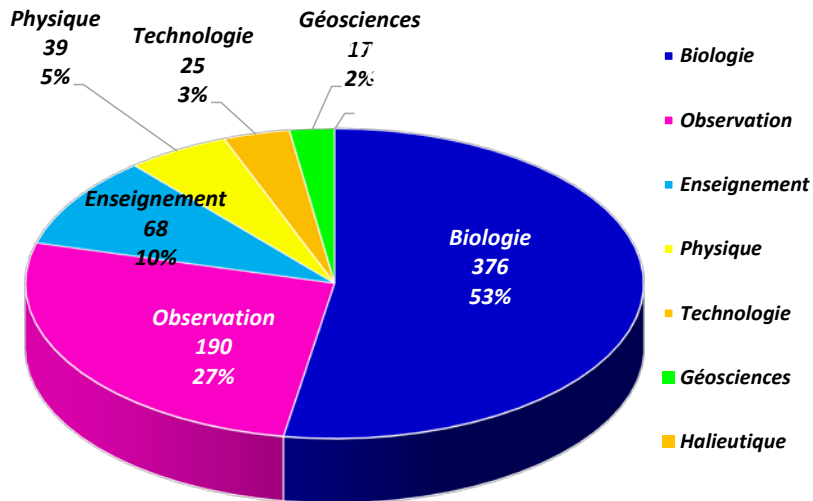
Mean number of cruises per year: 88 cruises



Mean number of days per year: 715 days

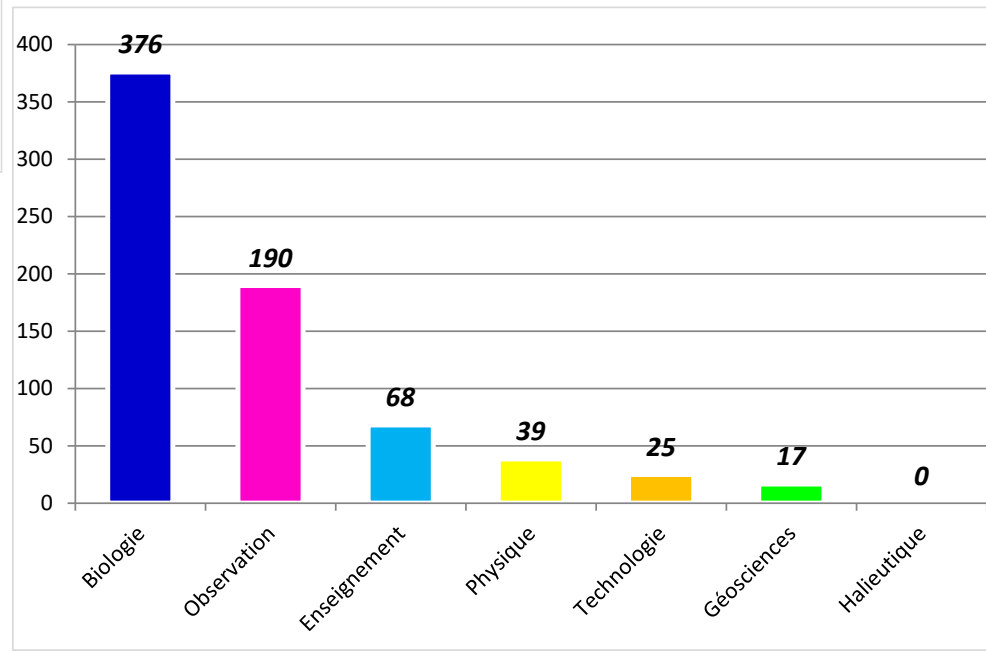
Oceanographic Fleet in the Mediterranean Sea

Local class ships (2014-2017) – 2860 days



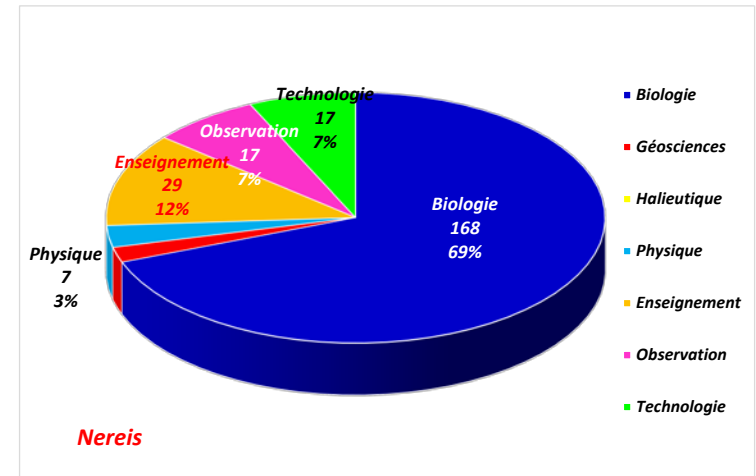
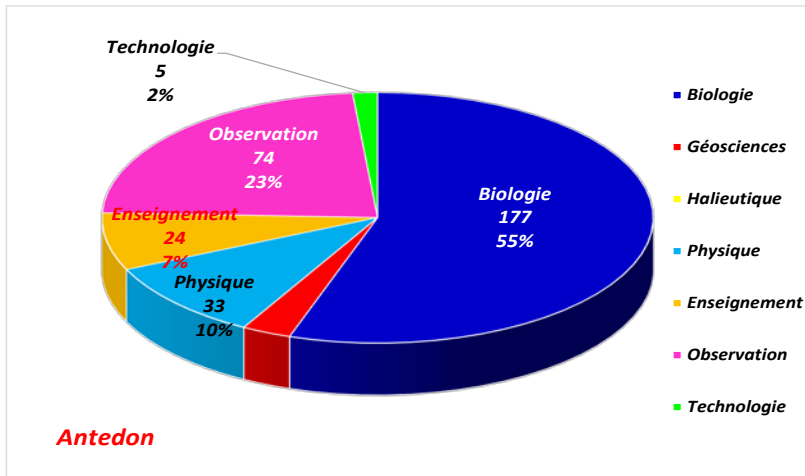
Mean annual number of days per discipline

Mean annual activity per discipline

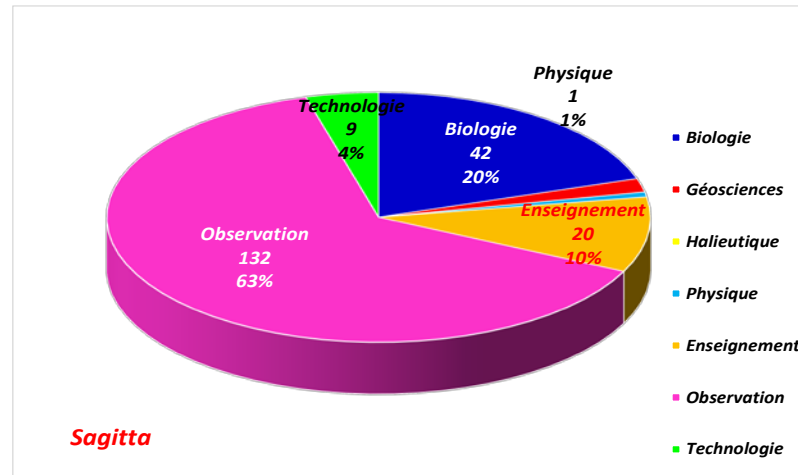


Oceanographic Fleet in the Mediterranean Sea

Local class ships (2014-2017) – 2860 days



Antedon Mean annual activity per discipline



Nereis Mean annual activity per discipline

Sagitta Mean annual activity per discipline

Pour plus d'informations



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[La flotte](#)

[Documentation](#)



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- ✓ **Journées de la flotte hauturière**
- ✓ 15ème réunion des opérateurs européens de navires de recherche
- ✓ Appel d'offres scientifiques relatif aux navires de station pour le 2ème semestre 2013
- ✓ Appel d'offres transits 2013 du Marion Dufresne

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