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FOSTERING COORDINATION ACTIVITY AT REGIONAL SEAS

THE MEDITERRANEAN SEA-BASIN

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EUROPEAN SEA REGIONS

Atlantic Ocean



Arctic Ocean



Baltic Sea



Black Sea



Mediterranean Sea



North Sea



THE MEDITERRANEAN SEA-BASIN



KEY FIGURES ON THE MEDITERRANEAN SEA-BASIN

- ✓ **Approximately 45.000 km of coastline, of which 19.000 km represent island coastlines**
- ✓ **Over 150 million inhabitants along its coasts**
- ✓ **Bears 30% of the world's seaborne trade by volume**
- ✓ **Transit route for nearly 25% of the world's seaborne oil traffic**
- ✓ **Over 450 ports and terminals**
- ✓ **The Mediterranean is the second most popular area worldwide for tourist cruises, with over 1 million cruise tourists a year**
- ✓ **EU Mediterranean fishing fleet represents approximately 46% of all EU fishing vessels**
- ✓ **The majority of Mediterranean waters are under the high seas regime**

MEDITERRANEAN MARINE RESEARCH

Regional associations: CIESM, UNEP/MAP, RAC/SPA, MedGOOS, MOON

International programs: POEM, MedCLIVAR etc.

National & sub-regional programs: HYMEX, POSEIDON, ADRICOSM etc.

Major EU funded projects for the Mediterranean Sea: MATER, MFSPP, MFSTEP, PEGASO, SESAME, MedSeA, and the FP7-2010 “Ocean of Tomorrow” call for Mediterranean and Black Sea

Components of European scale FP funded projects: HERMES/HERMIONE, MyOcean/2, EurOCEANS, MARBEF, KNOWSEAS, etc.

EraNET projects: MarinERA, MariFISH, CIRCLE2, AMPERA, SEAS-ERA

Research infrastructure development projects: EMSO ESFRI, EuroARGO ESFRI, EMBRC ESFRI

Infrastructure integration activities and collaborative projects: EuroSITES (fixed observatories), EuroFLEETS 1&2 (research vessels), SEADATANET 1&2 (data centres), GROOM (Gliders), JERICO (coastal observatories)

International programs and initiatives: GEO/GEOSS, IOC/GOOS/GCO, IMO/GloBallast

MARINE RESEARCH VESSELS

- ✓ Marine research requires access to expensive and technologically complex research equipment and infrastructures.
- ✓ The availability of marine research fleets, and associated marine equipment, is essential for research at sea
- ✓ The optimization of vessel usage is one of the biggest challenges due to its impact on the ocean research budget, especially considering the present decrease of available resources:
 - ✓ More efficiently usage of the existing fleets (*enhanced coordination of fleet and equipment scheduling, promotion of barter systems, promotion of joint programmes and cruises, enhanced usage of rare systems, more interoperability of equipment, etc.*)
 - ✓ Development of new partnerships and cooperation in cost-sharing for the construction and operation of RVs and equipment

MEDITERRANEAN RESEARCH FLEET

first analysis

Sources of input:

- **EurOcean European RV Infobase**
- **Ocean Information Center (OCEANIC) database**
- **CIESM Guide of Mediterranean Marine Research Institutes**
- **Marine Research Institutes Web sites + direct contacts**

Criteria:

- **Countries: Mediterranean EU Country, Mediterranean non-EU Country, Non-Mediterranean EU Country**
- **Vessel operating area: Mediterranean Sea (not considered “World Wide”, “All European Seas”, “Other”, “Black Sea” and “Null”)**

Vessel classification (*US Research Vessel Fleet – UNOLS*):

- **Global vessel: length ≥ 65 m, currently operating on at least a multi-Ocean scale**
- **Ocean vessel: length ≥ 55 m, currently operating on an Ocean scale**
- **Regional vessel: $35 \text{ m} \leq \text{length} < 55 \text{ m}$, currently operating on a Regional scale**
- **Local/Coastal vessel: $10 \text{ m} \leq \text{length} < 35 \text{ m}$**

MEDITERRANEAN RESEARCH FLEET

first analysis

Country	Vessel number	Vessel Class			
		Global	Ocean	Regional	Local/Coastal
France	14	5	1	1	7
Italy	14	1	1	2	10
Spain	14	1	-	3	10
Croatia	8	-	-	1	7
Portugal	6	1	-	-	5
Turkey	4	-	1	-	3
Morocco	3	-	-	1	2
Algeria	2	-	-	-	2
Egypt	2	-	-	-	2
Germany	2	1	1	-	-
Greece	2	-	1	-	1
Israel	2	-	-	-	2
Netherlands	2	1	-	-	1
Libya	1	-	-	1	-
Malta	1	-	-	-	1
Romania	1	-	-	-	1
Slovenia	1	-	-	-	1
Syria	1	-	-	-	1
Tunisia	1	-	-	-	1
United Kingdom	1	1	-	-	-
Albania	0	-	-	-	-
Bosnia & Herzegovina	0	-	-	-	-
Cyprus	0	-	-	-	-
Lebanon	0	-	-	-	-
Monaco	0	-	-	-	-
Montenegro	0	-	-	-	-
Total vessel number	82	11	5	9	57

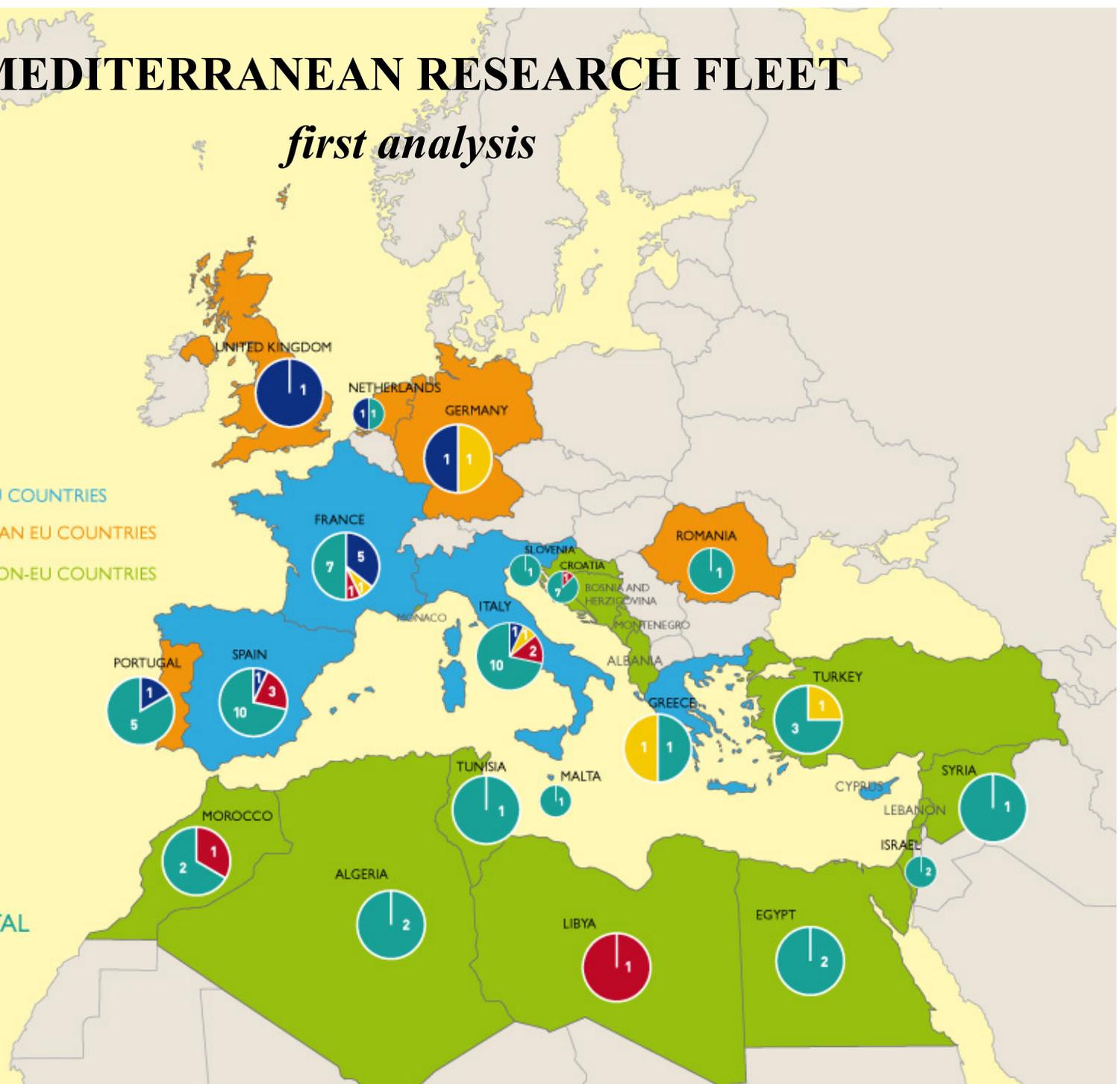
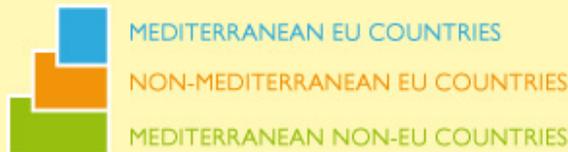
Mediterranean EU Countries

Mediterranean non-EU Countries

Non-Mediterranean EU Countries

MEDITERRANEAN RESEARCH FLEET

first analysis



TOWARDS A MED RESEARCH FLEET

- ✓ **The Mediterranean research fleet consists of about 80 research vessels with their associated marine equipment (70% Local/Coastal RVs, 13% Global RVs, 11% Regional RVs and 6% Ocean RVs).**
- ✓ **There is a lack of a common strategic vision in the way these facilities are managed and therefore a coherent approach to enhance their coordination and promote their cost-effective use is required.**
- ✓ **As a first step towards a better coordination of these facilities, it's extremely important to have an updated description of them, not only in terms of technical information but also in terms of management processes and existing partnerships.**

EUROFLEETS2 CONTRIBUTION TOWARDS A MED RESEARCH FLEET

WP4 – NA3: Initiatives towards integrated and cost-efficient operational activities

Task 4.1 – Regional virtual fleets

- to improve Regional RV (RVV) efficiency and cost effectiveness through increased cooperation, coordination and an actual pooling of trans-national resources
- to provide, in collaboration with **ERVO**, a comprehensive overview of the existing **Mediterranean/Black Sea research fleet** including detailed accounts of ship operation, scientific management schemes and funding issues

Thanks for your attention!

Any comments?

