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| ***Atlantic 2013***  | ***Black Sea Seas Era******Final SRA – D 8.1.1.*** | ***BlueMed*** | ***Baltic Sea - BONUS*** |
| **Basic Research and New Knowledge** | **Basic Research and New Knowledge** | **Key enabling knowledge for the Mediterranean** | **Key enabling knowledge for the Baltic Sea** |
| Ecosystem Function - Biodiversity - Complexity and Connectivity | Geological structure and dynamics of the Black Sea Basin | Mediterranean Sea ecosystems: services, resources, vulnerability and resilience to natural and anthropogenic pressures  | Ecosystem resilience and dynamics of the biogeochemical processes, including cumulative impacts of human pressures  |
| Coping with Uncertainty and Change - the impacts of global climate change | Physical climate, hydrological cycle, ventilation and interbasin coupling  | Mediterranean Sea dynamics: developing services in the field of sustainable adaptation to climate change and plans for mitigation  | Causes and consequences ofchanging biodiversity |
|  | Climatic variability, ocean acidification | Hazards and the protection of coastal areas in the Mediterranean | Food web structure and dynamics |
|  | Biodiversity, invasive species |  | The role of coastal systemsin the dynamics of the Baltic Sea  |
|  | Eutrophication, good ecosystem health |  | Multilevel impacts of hazardous substances |
|  | Deep sea research |  | Natural and human-induced changes in catchment land cover patterns, including the role of e.g. agriculture, forestry and urbanisation |
| **Applied Research - Science supporting Society and Economy**:  | **Applied Research - Science supporting Society and Economy**: | **Key sectoral enablers in the Mediterranean**  | **Key sectoral enablers in the Baltic Sea**  |
| Protecting the Marine Environment – Implementing the MSFD | Renewable energy, mineral resources, communication projects | Innovative businesses based on marine bio-resources in the Mediterranean  | Integrated approaches to coastal management  |
| Marine Renewable Energy - Powering Europe; | Maritime Transport | Ecosystem-based management of Mediterranean aquaculture and fisheries  | Eco-technological approaches to achieve good ecological status in the Baltic Sea |
| The Greening of Maritime Transport - Safety, Surveillance and Logistics | Sustainable fisheries and aquaculture | Sustainable tourism in the Mediterranean  | Enhanced, holistic cross-sector and cross-border maritime risk analysis and management, including eﬀects of new technologies, humanelement, climate change eﬀects in open water and in ice, and interaction with onshore activities  |
| Reclaiming Our Ocean Heritage - Marine/Maritime Leisure and Tourism | Marine biotechnology | Maritime clusters in the Mediterranean | Assessing the eﬀects of air and water pollution and introduction of energy (including noise) by shipping activities on the marine environment and integrated water management in harbours  |
| The Marine (Blue) Bioeconomy: Fisheries, Aquaculture, Seafood | Natural hazards | Maritime Spatial Planning and Integrated Coastal Zone Management in the Mediterranean  | Maritime spatial planning from local to Baltic Sea region scale  |
| Harvesting the oceans non-living resources: Sustainable mineral, oil and gas extraction from coastal and offshore areas | Socio-economic research |  | Evaluation framework for fisheries management  |
|  | MSP, MPA, ICZM |  | Sustainable aquaculture in the Baltic Sea  |
|  |  |  | Improving stock assessments and resolving spatial heterogeneity and temporal dynamics of the Baltic Sea fish stocks |
| **Critical Supports/Infrastructure needs:** | **Critical Supports/Infrastructure needs:**  | **Enabling technology and capacity creation for the Mediterranean Innovative human potential and infrastructure required**  | **Enabling technology and capacity creation for the Baltic Sea Innovative human potential and infrastructure required** |
| A European Atlantic Ocean Observing and Forecasting Capability (including seabed mapping) | Tools for policy implementation | Smart, greener maritime transport and facilities in the Mediterranean | Governance structures, policy performance and policy instruments |
| An Atlantic Marine Socio-Economic Assessment Capability and Database | Observation and forecasting systems | Observing systems and operational oceanography capacities in the Mediterranean  | Linking ecosystem goods and services to human lifestyles and well-being |
| A European Atlantic Marine Science and Technology Foresight Platform | Marine research infrastructure | Multi-purpose offshore platforms in the Mediterranean  | Developing and improving scientific basis for integrated monitoring programmes for continuous assessment of ecological status andhuman pressures  |
|  | Human capacity building | Marine and coastal cultural heritage in the Mediterranean: discovering, protecting and valuing | Developing and testing innovative in situ, remote sensing and laboratory techniques |
|  |  |  | User-driven new information and communication services for marine environment, safety and security in the Baltic Sea area |
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