

## 7 THEMATICS

- BATHYMETRY
- BIOLOGY
- CHEMISTRY
- GEOLOGY
- HUMAN ACTIVITIES
- PHYSICS
- SEABED HABITATS

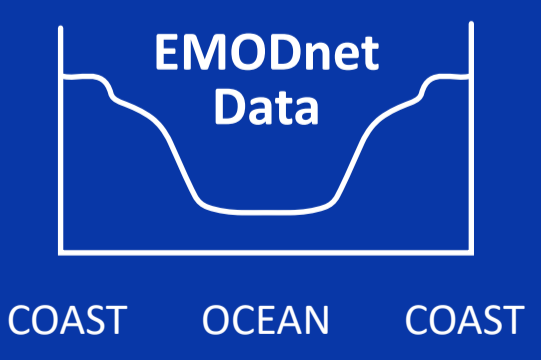
# EMODnet

## SERVICE OFFER



EMODnet offers marine data derived from *in situ* ocean observations of the state and dynamics of oceans and marine organisms, together with data on human activities at sea. The offer spans the coast to open ocean and the surface to the seafloor. (see detailed key for thematic groups and examples of key data layers and products)

EMODnet's open and free marine knowledge is offered at pan-European scale. EMODnet serves diverse users, providing the evidence-base to support EU Policy implementation e.g., Marine Spatial Planning Directive and the Marine Strategy Framework Directive, stimulating Research and Innovation, and providing baseline information on European seas and bordering seas to empower the Blue in its green transition, and to underpin decisions towards nature restoration and climate-smart management of ocean space. Explore EMODnet today, and see what it can do for you!



- BATHYMETRY**
  - 1. Bathymetry (seafloor depth) survey data (integrated from diverse sources)
  - 2. Digital Terrain Model (EMODnet high-resolution bathymetry DTM)
- BIOLOGY**
  - 3. Macroalgae
  - 4. Angiosperms
  - 5. Benthos
  - 6. Birds
  - 7. Fish
  - 8. Mammals
  - 9. Phytoplankton
  - 10. Reptiles
  - 11. Zooplankton

*offer includes Occurrence data, abundance and distribution, biomass and diversity, presence/absence, habitat suitability maps, etc.*
- CHEMISTRY**
  - Chemical ocean parameters**
    - 12. Acidity/pH
    - 13. Chlorophyll-a as a proxy for phytoplankton
    - 14. Dissolved gases
  - Pollution and contaminants**
    - 15. Beach litter
    - 16. Seafloor litter
    - 17. Fertilizers
    - 18. Hydrocarbons
    - 19. Heavy metals
    - 20. Pesticides
    - 21. Biocides
    - 22. Polychlorinated biphenyls
- GEOLOGY**
  - 23. Coastal behavior
  - 24. Geological events (e.g., earthquakes, submarine landslides) and probabilities
  - 25. Marine minerals
  - 26. Seabed substrate
  - 27. Seafloor geology
  - 28. Submerged landscapes
- HUMAN ACTIVITIES**
  - Blue Economy multi-sector operations at sea**
    - 29. Aggregate extraction
    - 30. Algae production
    - 31. Aquaculture
    - 32. Cables
    - 33. Cultural heritage
    - 34. Desalination
    - 35. Dredging
    - 36. Energy
    - 37. Environment (e.g., Marine Protected Area, Natura 2000)
    - 38. Fisheries
    - 39. Main ports
    - 40. Military areas
    - 41. Oil
    - 42. Gas
    - 43. Pipelines
    - 44. Waste disposal
    - 45. Vessel/shipping density
    - 46. Route density
  - Maritime Spatial Planning**
    - 47. National EU Member State MSPs
  - Other forms of area management**
    - 48. MSFD Reporting Units, International/Regional Conventions
- PHYSICS**
  - 49. Seawater alkalinity
  - 50. Currents
  - 51. Dissolved oxygen
  - 52. Meteorological
  - 53. Optical properties (suspended matter)
  - 54. River outflow
  - 55. Sea ice
  - 56. Sea level
  - 57. Temperature in the sea water column
  - 58. Underwater sound
  - 59. Water salinity and conductivity
  - 60. Waves
  - 61. Winds
- SEABED HABITATS**
  - 62. Seabed habitats (habitat survey data, environmental variables)
  - 63. EUSeaMap broad-scale seabed habitat map for Europe