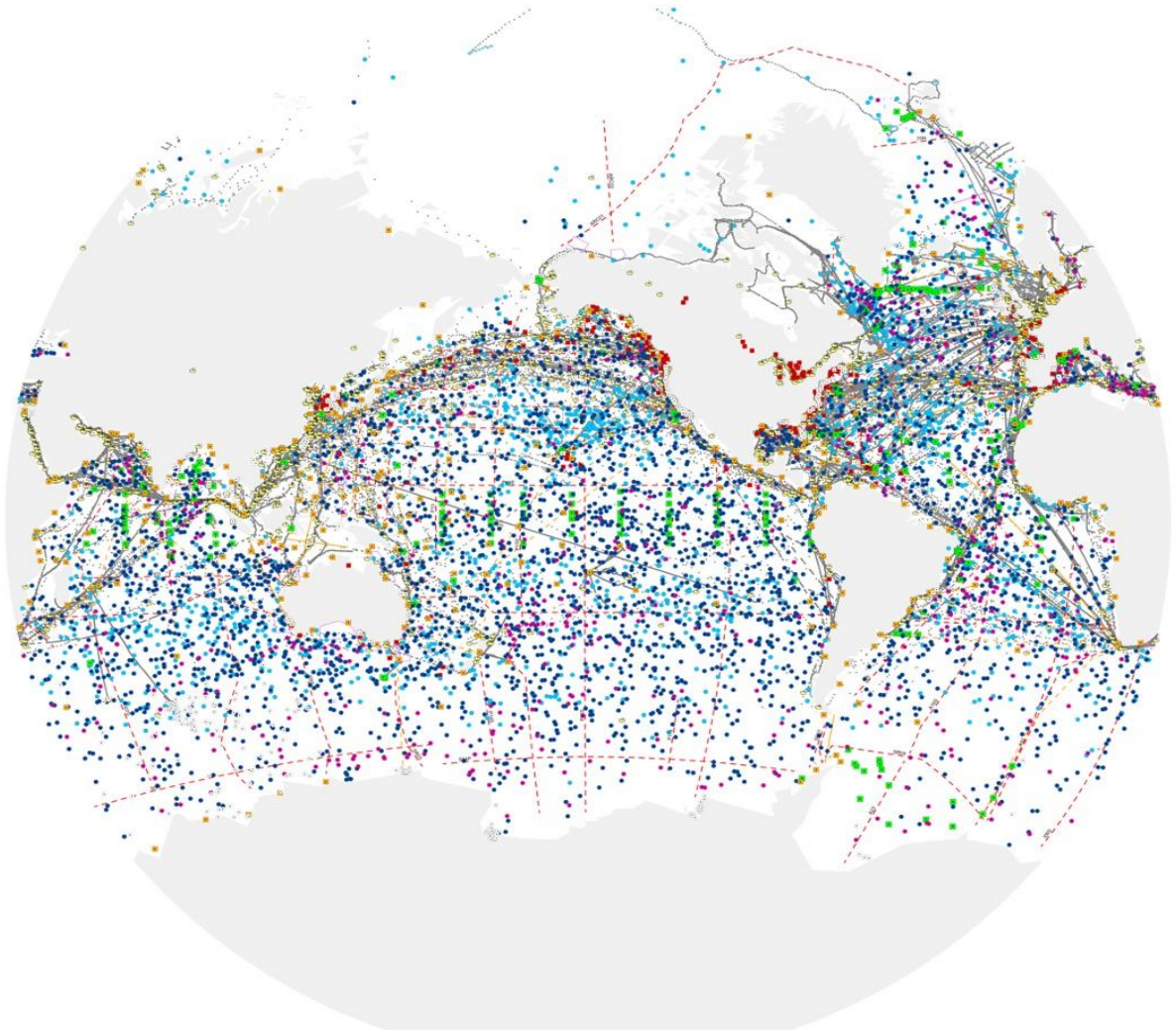
GOOS Today



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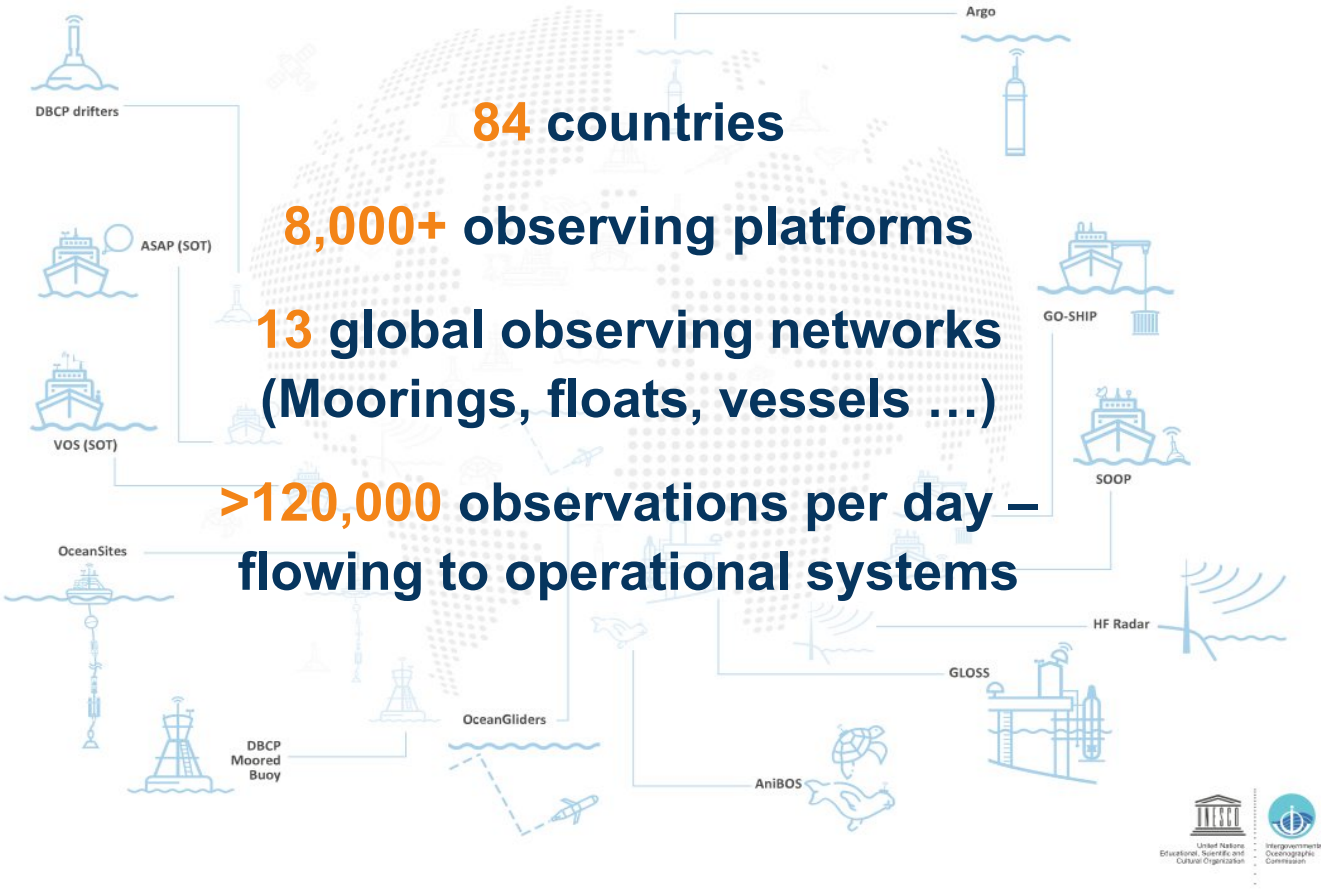

84 countries

8,000+ observing platforms

13 global observing networks
(Moorings, floats, vessels …)

>120,000 observations per day –
flowing to operational systems

Essential Ocean Variables (EOVs)

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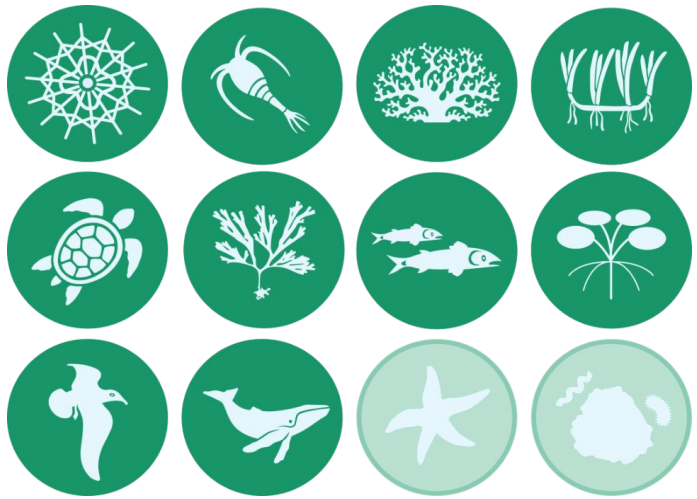
Minimum set of ocean variables that are needed to efficiently monitor the state and health of the ocean



12 **EOVs for Biodiversity**

Phytoplankton, Zooplankton, fish abundance, Sea turtles, Seabirds, Marine mammals, Coral, Seagrass, Macroalgal, Mangrove

GOOS BioEco Portal: search (metadata) for monitoring programs

OBIS
OCEAN BIODIVERSITY INFORMATION SYSTEM

OBIS: the largest database for marine life observations

Challenges in data exchange and marine research

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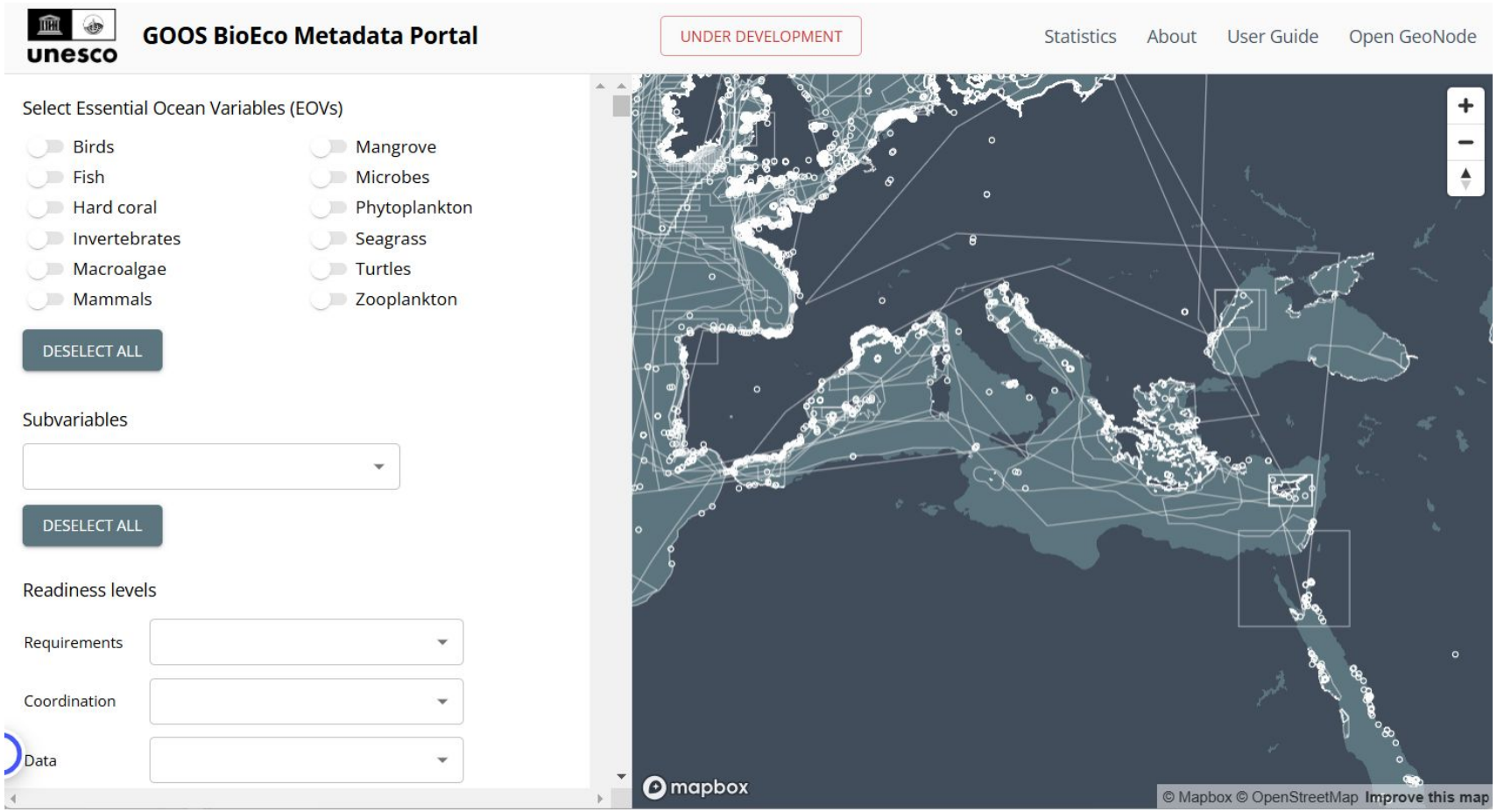

Outdated mindsets and practices (co-design)

Political and legal issues

Unappropriated International coordination

Emerging technologies to improve data collection

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Passive accoustic
Track marine species, monitor anthropogenic noise and study ecosystem health

eDNA
A non-invasive and cost-effective method to collect genetic material

Underwater imagery, coupled with AI
A cutting-edge technology for marine species observations and recognition