



Marine Life

2030

Building global knowledge of marine life for local action

<https://marinelife2030.org>

Proposed to the Ocean Decade by:



<https://marinelife2030.org>

Our Partners



Proposal included:

- 37 International Academic Institutions
- 5 International Governmental Organizations
- 34 Non-Governmental Organizations
- 14 National Government Partners
- 9 Private Sector Partners

Ocean Shot ➡ The National Academies of SCIENCES
ENGINEERING
MEDICINE

The “Ocean Decade”



<http://oceandecade.org>

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Proclaimed on 5 December 2017

...from 2021 to 2030

The Science We Need
For The Ocean We Want



The Ocean Decade Framework



Programs endorsed by the Ocean Decade (June 2021)



Over 30 'Programmes':

Marine Life 2030

Ocean Best Practices

Ocean Biomolecular Observing Network (OBON)

Ocean Acidification Research for Sustainability (OARS)

Deep Ocean Observing Strategy

Challenger 150

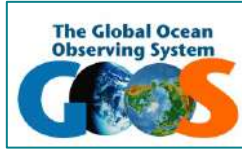
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Empowering Women

Early Career Ocean Professionals (ECOP)

[Explore The Ocean Decade Actions](https://www.oceandecade.org/decade-actions/)

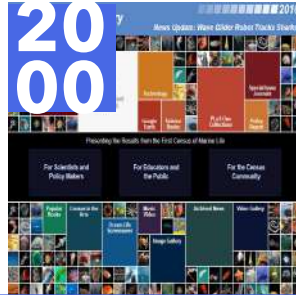
[\(https://www.oceandecade.org/decade-actions/\)](https://www.oceandecade.org/decade-actions/)



GOOS



IOC, WMO, UNEP, ISC
Deliver information
essential for sustainable
development, safety,
wellbeing and prosperity



CoML

A DECADE OF DISCOVERY
2,700 scientists, 80+ nations
540 expeditions
US\$ 650 million (AP Sloan Fn)
6,000+ potential new species
47 million distribution records



MBON



GEO BON, NOAA/IOOS,
NASA, BOEM, NOPP
To standardize and integrate
data to understand marine
biodiversity and ecosystem
functions

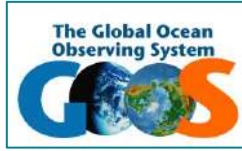


ML2030

Partnership: MBON, GOOS/IOOS,
OBIS, WCMC, others. **Vision:**
Transform observation and
forecasting of marine life for the
benefit of all people

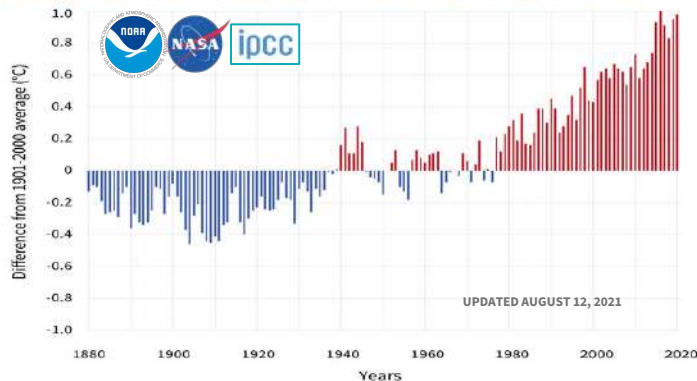
OBON, OARS, SMARTNET, DOOS,
SUPREME, ECOPS, Challenger150,
Maritime Acoustic Environment





Context: Climate Change, population growth, ... and really poor biodiversity knowledge and forecasting ability

GLOBAL AVERAGE SURFACE TEMPERATURE



The ocean is home to > 200,000 species

Ocean Economy value:

>US \$3 trillion in 2030 with many industries depending on healthy ecosystems

Source: OECD 2016

1 billion people

In developing countries depend on fish for their primary source of protein

350 million jobs

Are linked to the ocean

Food, water, and energy links to life

Marine Life 2030

<https://marinelife2030.org/>

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Recognize our dependence on diversity of life

Transform observation and forecasting of marine life for the benefit of all people

Goals:

- Connect science and user needs
- Build technical capacity (bio-eco Essential Ocean Variables/EOVs; Essential Biodiversity Variables)
- Standardized, coordinated marine life monitoring
- Broaden participation and mainstream applications of biodiversity information

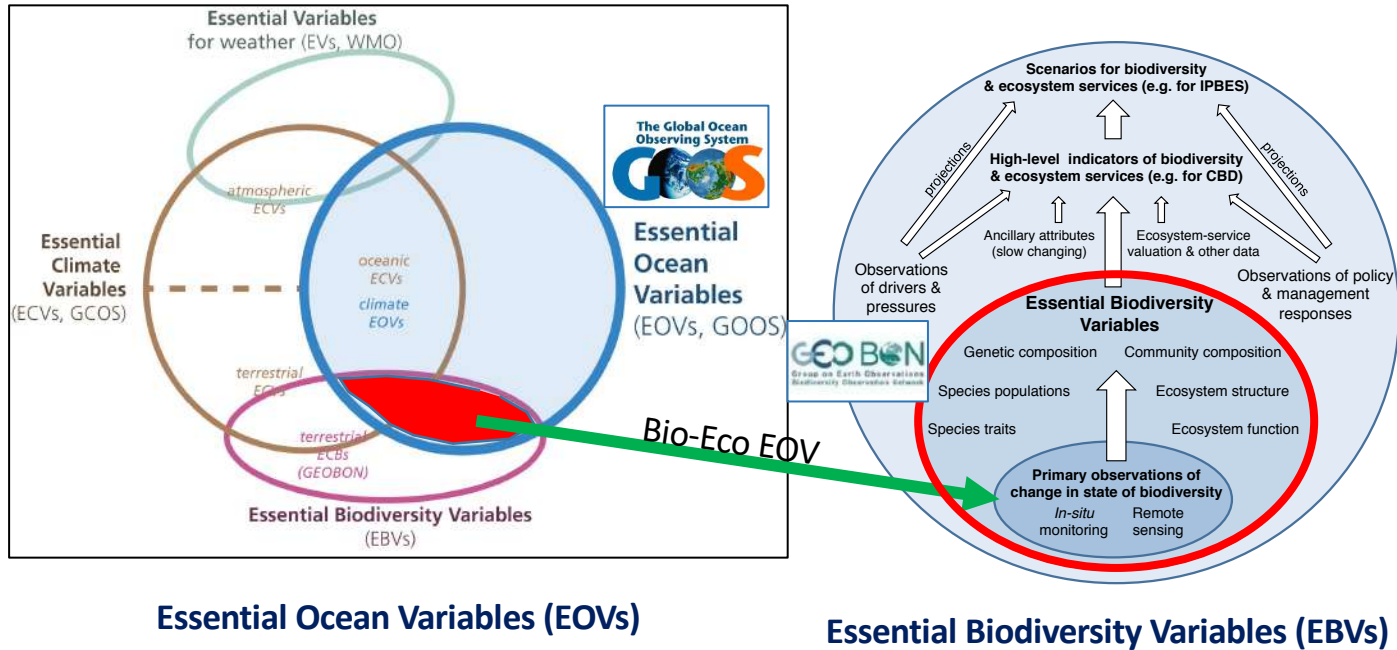
Stakeholders:

- Marine Life 2030 is an open network

Engagement Strategy:

- Co-design for implementation, management, financing
- Indicators, standards, technologies, applications

Essential Variables



Essential Ocean Variables (EOVs)

Framework for Ocean Observing (2012)
<http://www.oceanobs09.net/foo/>

Essential Biodiversity Variables (EBVs)

GEO BON EBVs
 Pereira et al. (2013)

Biological GOOS Framework for Ocean Observing in the Ocean Decade →



REQUIREMENTS



Ocean Best Practices System (OBPS)



+ Others

MBON:

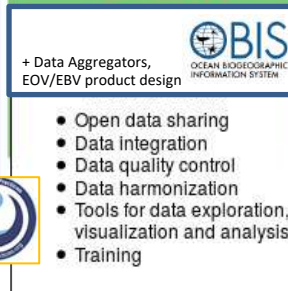
- Network biological observations community
- *Emphasize common methods and data standards*
- R&D on biodiversity
- Advance bio-eco EOVS/EBV

Ocean Best Practices System (OBPS)



Building a **coherent, consistent, coordinated** ocean observing system to assess the state and trends of the ocean's biological resources and ecosystems as relevant and useful to the nation

DATA & PRODUCTS



Ocean Best Practices System (OBPS)

PRODUCTS, INDICATORS, ASSESSMENTS

<http://iobis.org/2016/12/15/goosgeobonobis/>

https://marinebon.org/assets/Marine_Life_2030_UN_Ocean_Decade_request_for_endorsement_20210115.pdf

New Call for 'Actions':

<https://www.oceandecade.org/>



How You Can **Take Action**

JOIN

The Ocean Decade is for everyone. Anyone can join and participate.



Submit An Activity

Submit your idea for a Decade Activity anytime: events, publications, exhibitions, workshops, conferences or training opportunities. [Submit a Decade Activity.](#)



Calls for Decade Actions

Submit your idea for a Decade Programme, Project or Contribution. [Submit an action.](#)



Global Stakeholder Forum

Sign up to an interactive platform where you can network and get involved in the Ocean Decade community. [Join the global stakeholder forum.](#)



2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development

Current Resources through 2025: Founding Partners as in Ocean Decade proposal

<10% of Census of Marine Life costs → Additional contributions needed

Brazil: US\$100,000/2021 - onward: The Long-term Ecological Research Program Coastal Habitats of Espírito Santo (PELD HCES)/Universidade Federal do Espírito Santo

European Union: AtlantECO Program: 10.9M Euro through 2024-2025; 36 partners from 13 countries (including South Africa and Brazil) (Contact: Daniele Iudicone).

Japan: US\$26.1K/year (JPY2.7M/year): Japan/Hokkaido University/Japan Agency for Marine Earth Science and Technology; International Research Center for Agricultural Science/Marine Ecology Research Institute/Japan; US\$ 57.0K/year (JPY5.9M/year): Japan/ University of the Ryukyus. JSPS Core to Core Program for FY2020-2022, title: Global analyses of mangrove. Overseas core institutions from Indonesia, China, Philippines, Thailand, Malaysia, India, Sri Lanka, South Africa and Senegal. Project HP: <https://c2c.mangroves.info/>. In-kind resources: Access to OBIS node BISMAL of JAMSTEC and high resolution marine environmental data of East Asia (around Japan) (FORA and FROP (planned) provided by JAMSTEC).

Malaysia: USD45K/year (MYR200,000/year): Government of Malaysia, Ministry of Higher Education, Long term research grant scheme (LRGS).

Mexico: US\$120,000/2021 and onward: Mexico/Universidad Nacional Autonoma de Mexico (UNAM); Dr. Elva Escobar



Portugal/Azores: US\$190K (2021, 2022): Atlantic International Research Centre (AIR Centre),

USA: US\$3M/year for US Marine Biodiversity Observation Network with the US Animal Telemetry Network (ATN) and US Integrated Ocean Observing System (US IOOS) (NOAA, NASA, BOEM, ONR, USGS; Smithsonian Institution)

OBIS Nodes networks: ~US\$2M/year

Issues for discussion



- Volunteer efforts
 - Conversations on governance and organization / communications with partners
 - Upcoming ML2030 events:
 - February 2022:  (Now virtual – simulcast with local in-person meetings)
 - TBD Feb-March 2022: Puerto Rico
 - March-April 2022: (COL/OceanKAN) Simulcast
 - TBD mid-2022: Air Centre / All Atlantic
 - Advance technologies and standards
 - Data management
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- 
- ML 2030 as foundation for science diplomacy with partner nations and groups
 - Link with other UN Decade programs, OBON, DOOS, OARS, GOOS, ECOP, WOMEN, SMARTNET, SUPREME, Maritime Acoustic Environment,...

We need your help leading key aspects of Marine Life 2030. Please use this short form to tell us where you can help. We need leaders! So, please only commit where you think you can really take a lead and invest time. (If you cannot lead right now, don't worry. We will come back again to ask for help down the road.)

Personal data will be processed according to our Privacy Policy. By entering your email address you agree to the use of your data and your voluntary submission of the information in this form. Your email address is required to continue with this form.

fmullerkarger@gmail.com [Switch account](#)

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* Required

Email *

Your email

Please sign-up for the activity where you can take a leadership role:

- ☐ Stakeholder Engagement
- ☐ Capacity Development
- ☐ Best practices and interoperability
- ☒ Fundraising
- ☐ Governance and Cross-Programme Coordination
- ☐ Developing co-designed projects for Decade Endorsement
- ☐ Other:

Clear selection

Link: [ML 2030 Sign-Up for Tasks and Activities \(google.com\)](https://ml2030.org/sign-up)

Thank You!



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#MarineLife2030

Websites: <https://marinelife2030.org/>
<http://marinebon.org>