Census of Marine Life

An international program
to assess and explain the
diversity, distribution & abundance
of marine life
(2000-2010)

The Census of Marine Life: Making ocean life count

CENSUS OF MARINE LIFE

Grand Challenge Questions
Components

1) ***What did live in the oceans****?*

CoML answer: History of Marine Populations Program

2) ***What does live in the oceans****?*

CoML answer: Ocean Realm Field Projects

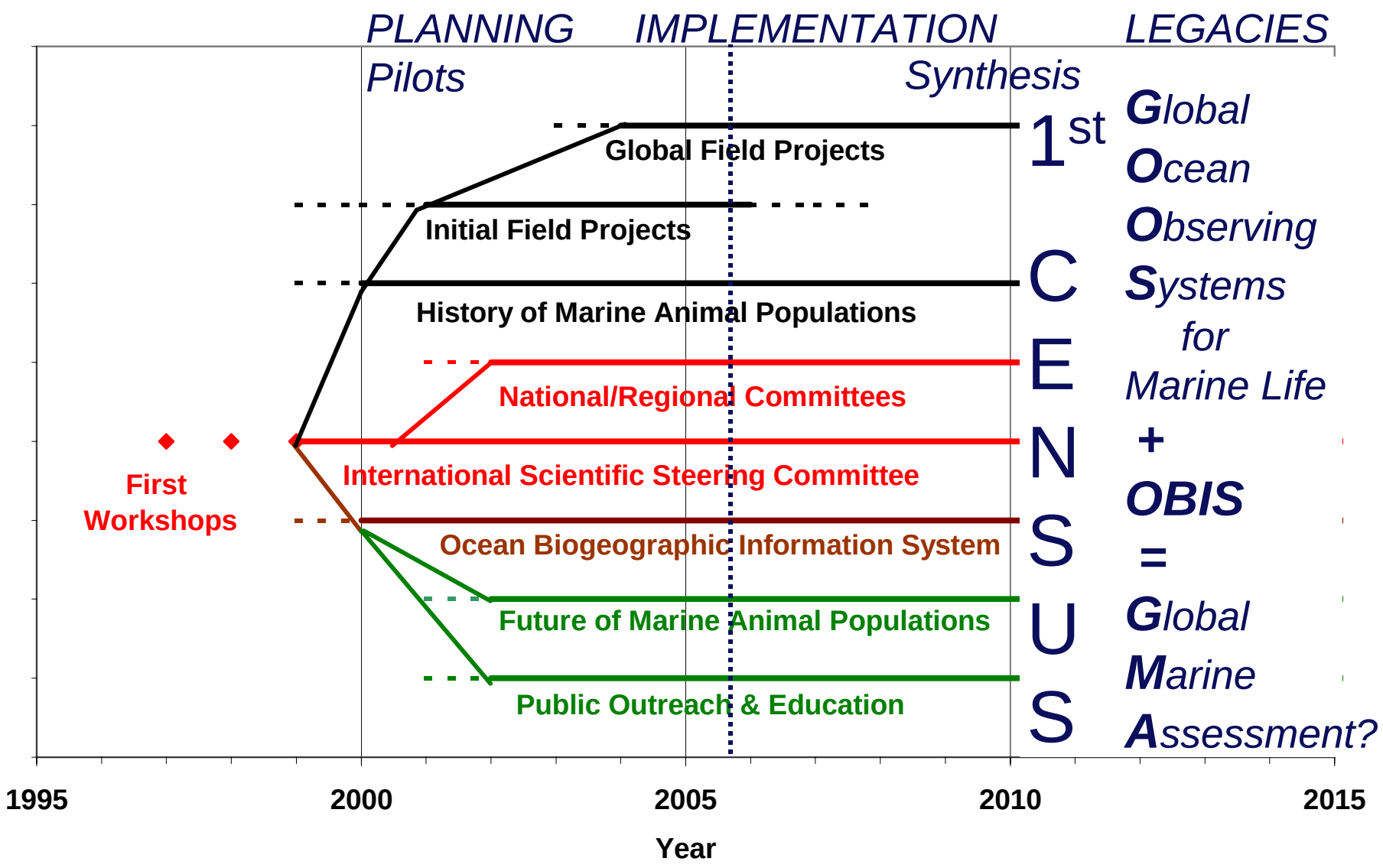
3) ***What will live in the oceans****?*

CoML answer: Future of Marine Populations Program

4) ***How to access & visualize data on living marine resources****?*

CoML answer: Ocean Biogeographic Information System

Program Development: Schedule, Benchmarks



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A program of explorations and applications

Applications:

- Sustainable Fisheries
- Marine Protected Areas (finding hotspots)
- Habitat Loss and Pollution
- Environmental Assessments
- Invasive species
- Endangered Species
- UN Convention on Biodiversity
- Global Climate Change

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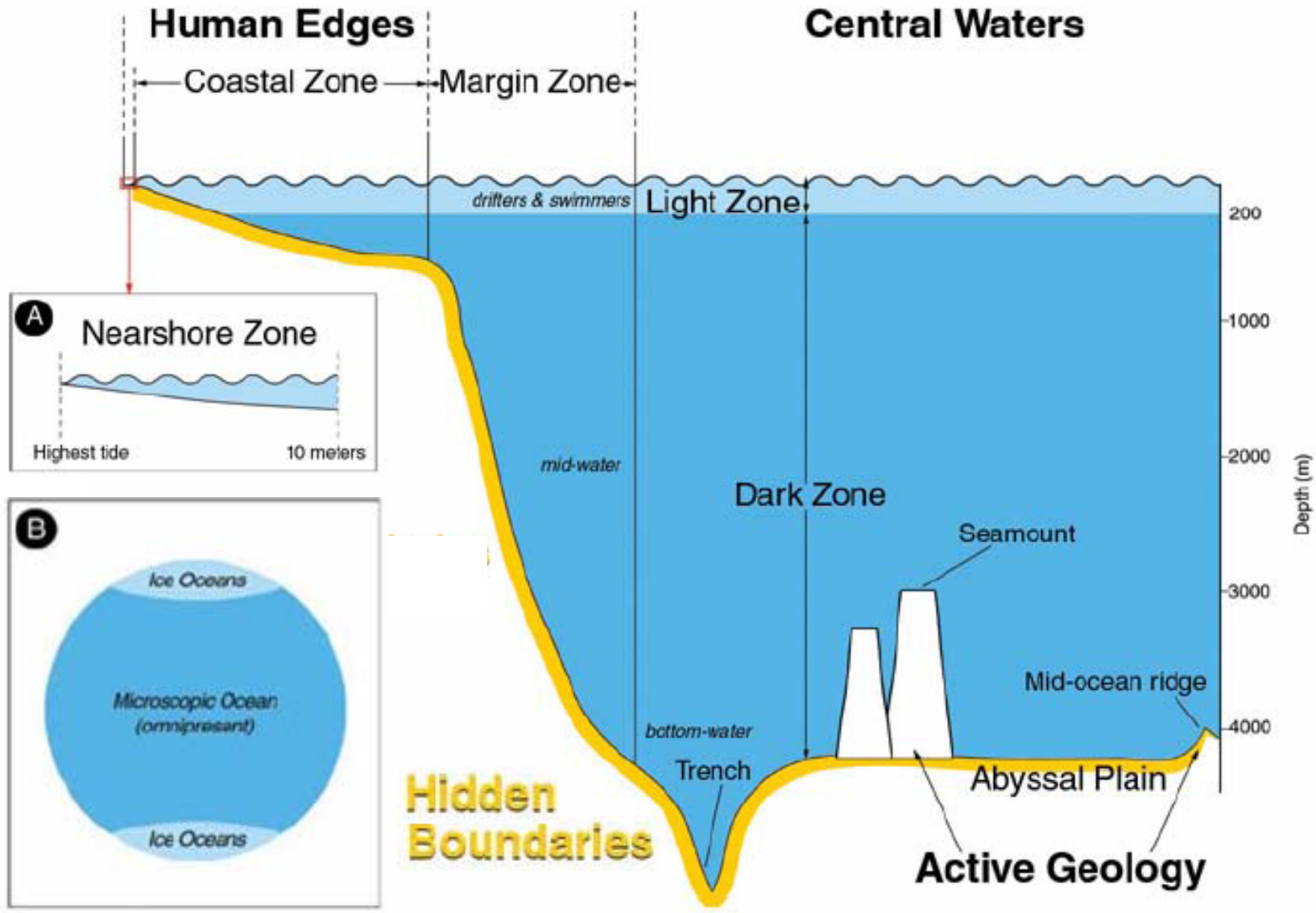
COML Ocean Realms & Zones



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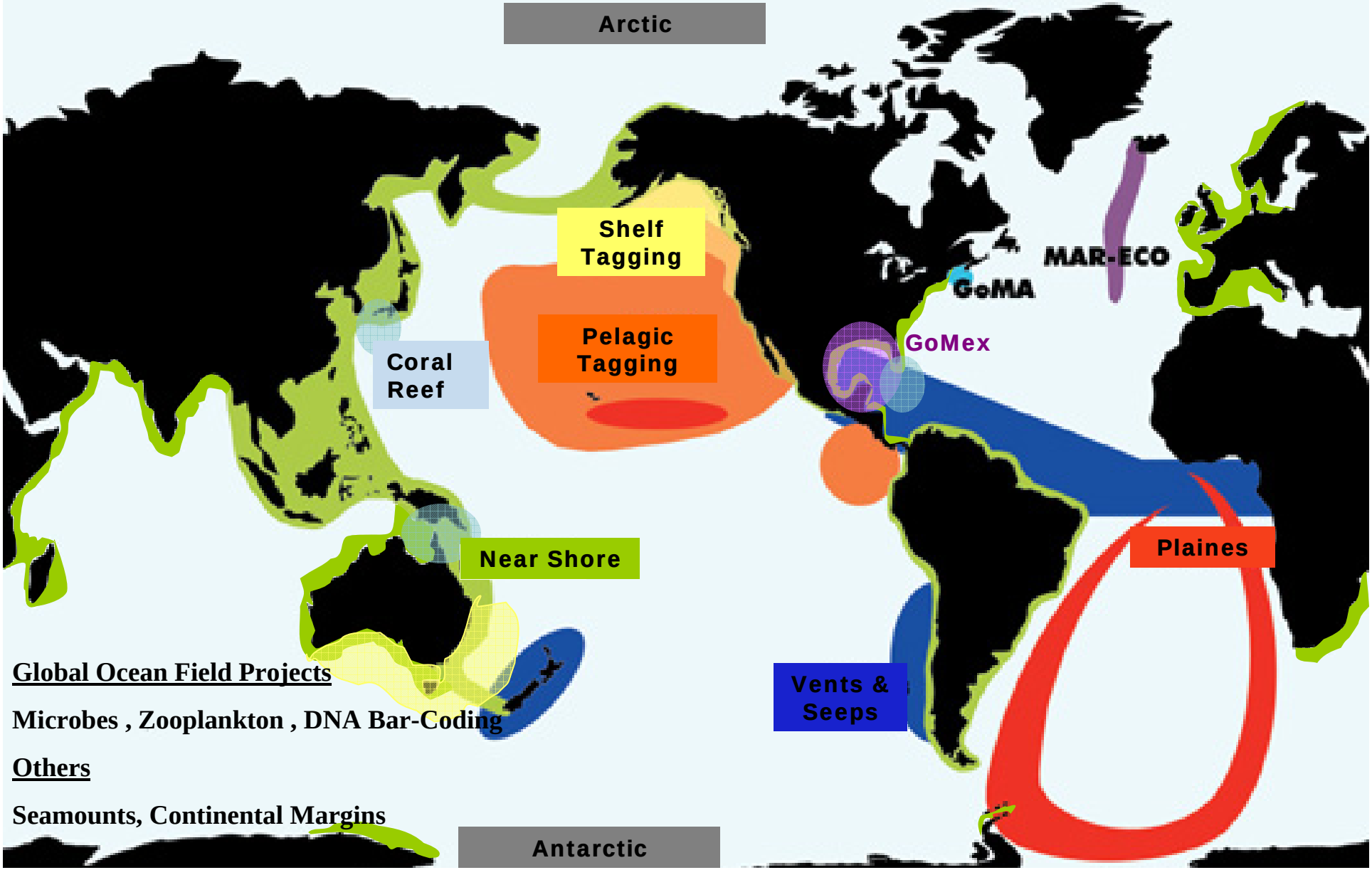
Field Project Distribution



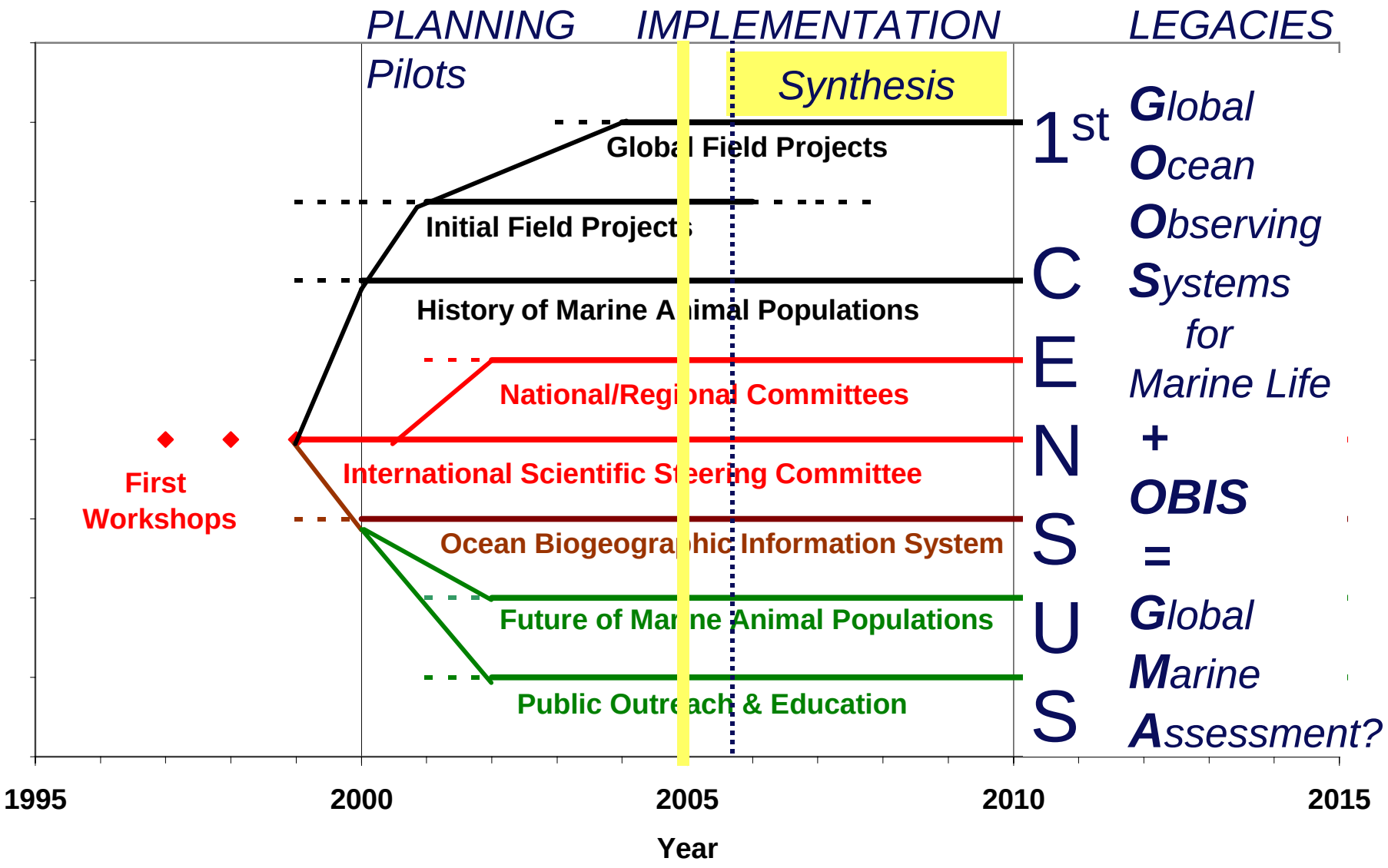
Global Ocean Field Projects

Microbes , Zooplankton , DNA Bar-Coding

Others

Seamounts, Continental Margins

Program Development: Schedule, Benchmarks



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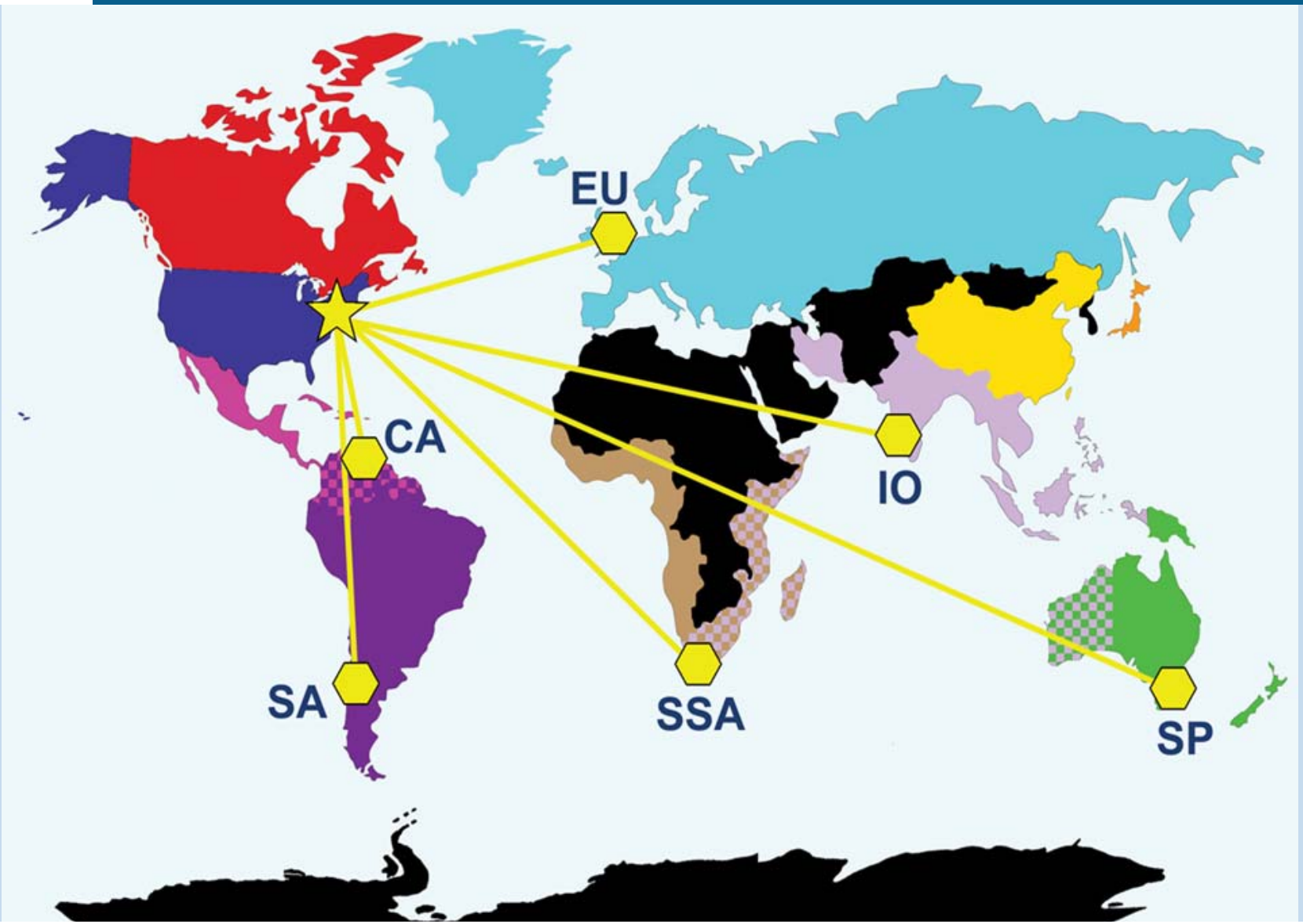
Regional Implementation Committees (RICs)



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Proposal

CoML-PICES collaborative initiative to look at the North Pacific Eco regions

- Integration of research and expertise of the 2 programs
- Scientific capacity building in the 5 North Pacific countries

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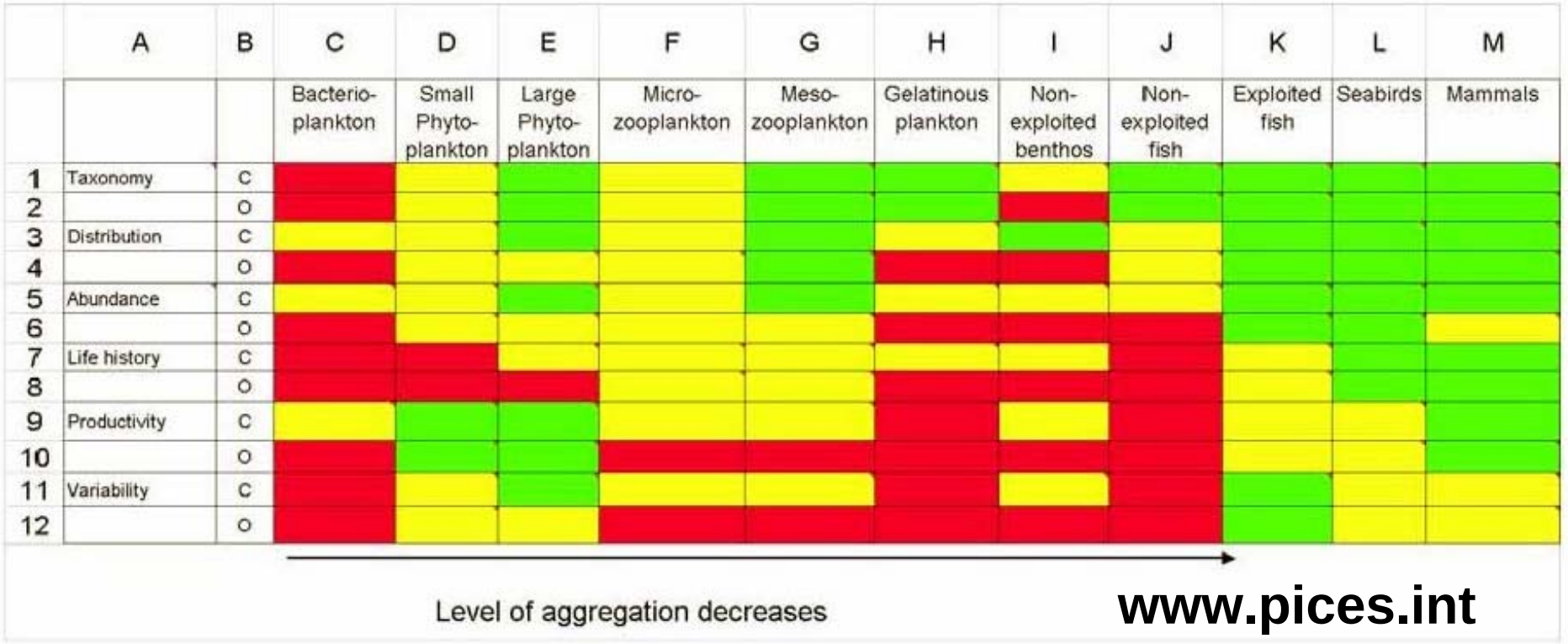
PICES 2005 Report
Marine Life in the North Pacific

Supplemental table of Unknowns. Categories of needed information are sub-divided into Coastal (C) and Offshore (O) components, since information requirements may differ for various locations. **RED** cells indicate major unknowns with poor data availability, **YELLOW** cells indicate limited information (some aspects from some regions may be known), and **GREEN** cells indicate no major unknowns and that available information is generally adequate. **Moving the cursor** over some cells will bring up more detailed information.
In addition, the detailed information associated with these cells can be found below the table.



www.pices.int

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Possibilities

- Joint workshops *ex. The PICES yellow sea initiative to gather known data and the CoML history project*
- Scientific exchanges *ex. PICES and CoML scientific intern ships (a cross over of young scientists)*
- Publications ex. *An updated look at North Pacific Ecosystems*