

# **GEO BON**

## **Group on Earth Observations**

### **Biodiversity Observing Network**

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**Chair, GEO BON**

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GEO Plenary,  
Washington DC  
17 November 2009



## Outline

- Current status of the Biodiversity Observation Network
- Some elements of the network design and operation
- Activities in the next period

# **GEO BON status**

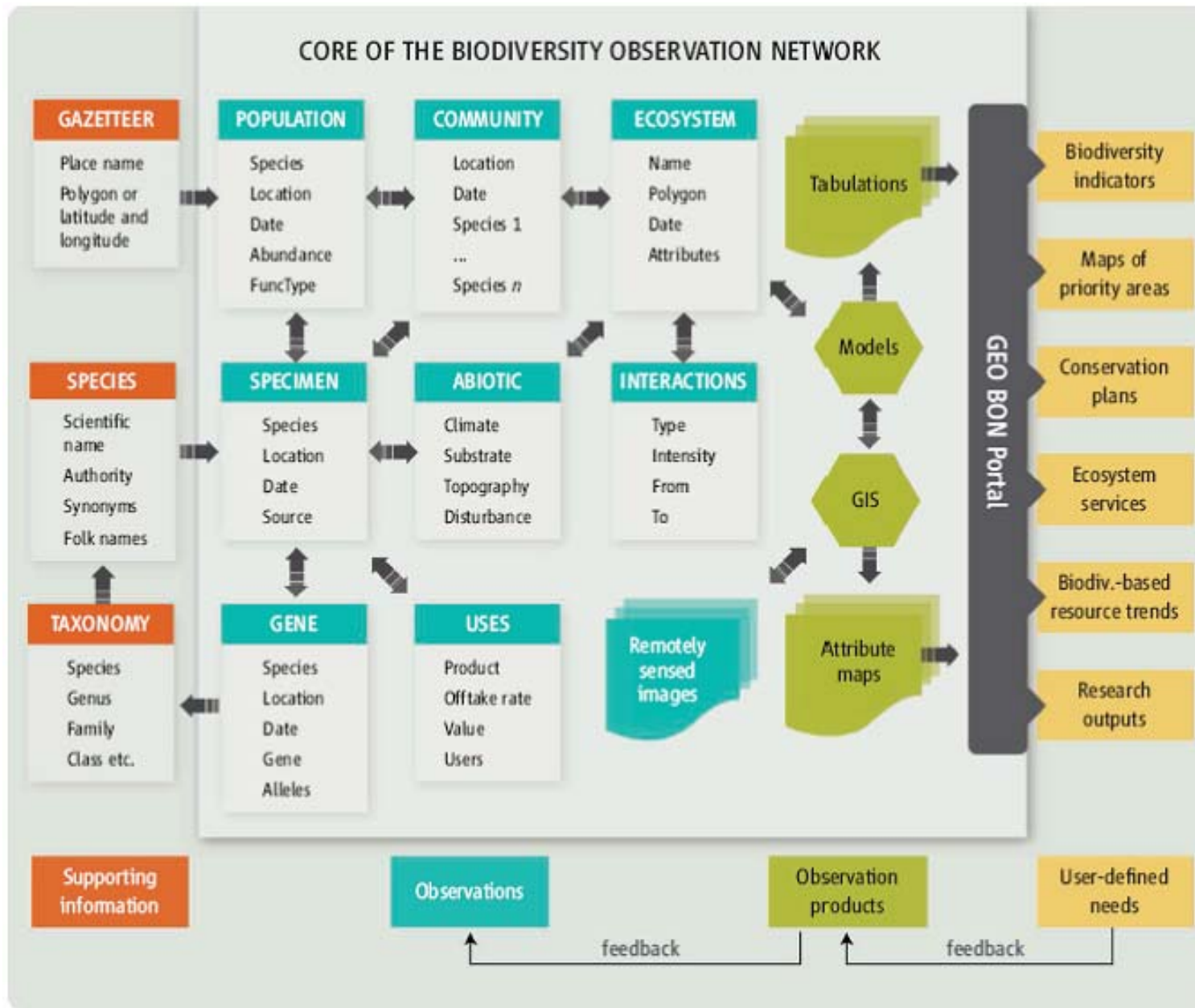
- **Design documents published and approved**
  - Concept Document
  - Implementation Plan
- **Key stakeholders have expressed their support**
  - Convention on Biological Diversity
  - Intergovernmental Process on Biodiversity and Ecosystem Services
- **Steering committee formed and met (June 2009)**
- **Eight working groups established and in progress**

# A thoroughly 21<sup>st</sup> century organisation...

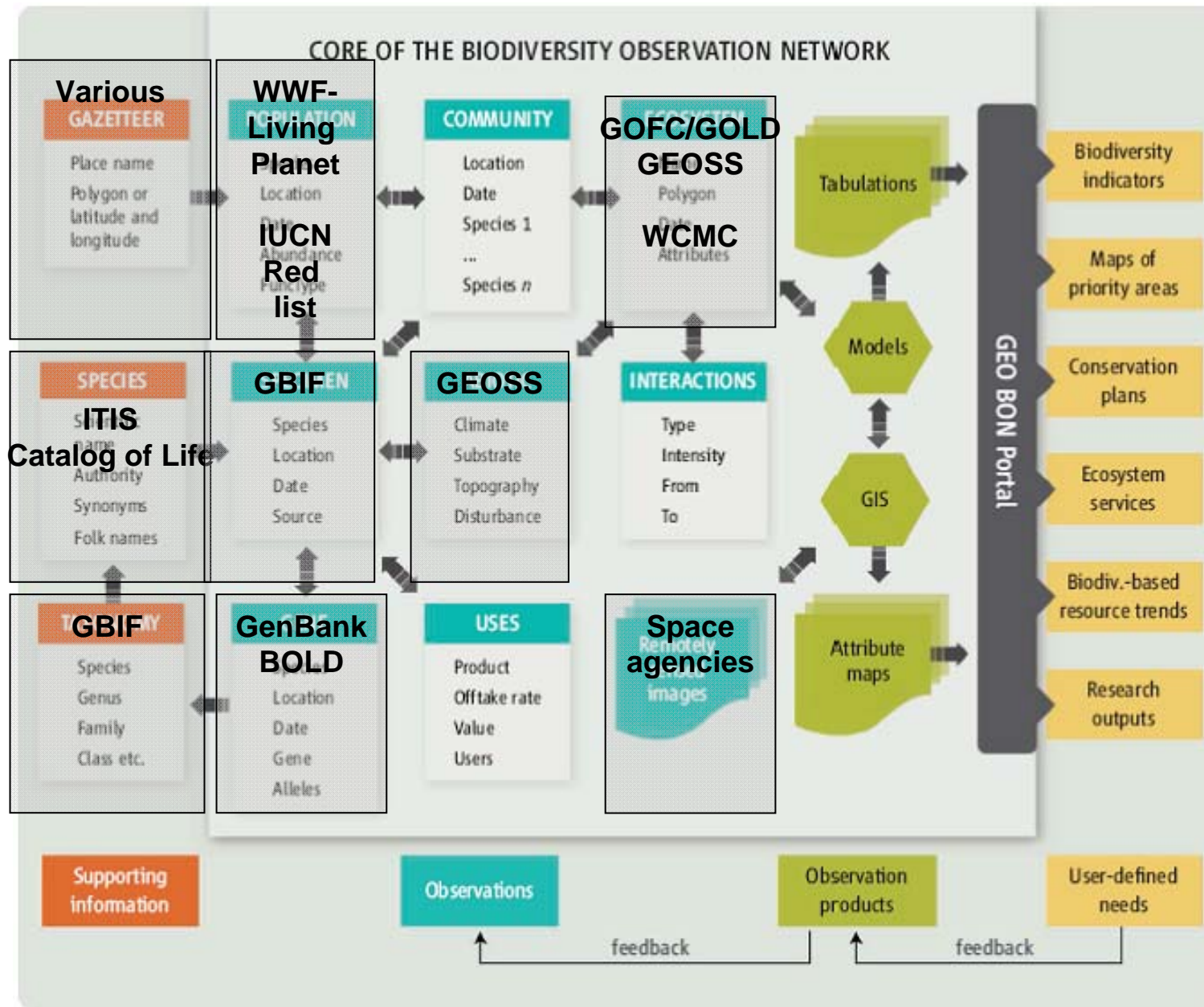
- A self-organising, adaptive network
- Working groups around tasks that are
  - specific,
  - time-bound; and
  - actionable
- Working largely through electronic media
  - Face-to-face interactions where appropriate and possible

# GEO BON structure

- Steering committee meets approximately annually
  - 18 people: stakeholders, implementors, experts
- Very slim resource, based at GEO in Geneva
- Focussed, limited-term topic working groups
  - Genetics (Tet Yahara and Daniel Faith)
  - Terrestrial Species Monitoring Programmes (Henrique Pereira)
  - Terrestrial Ecosystem Monitoring (Rob Jongman)
  - Freshwater Ecosystem Monitoring (Ian Harrison)
  - Marine Ecosystem Monitoring (Jan de Leeuw and Carlo Heip)
  - Ecosystem Services (Hal Mooney)
  - In-situ / Remote-sensing Integration (Simon Ferrier)
  - Informatics and Portals (Hannu Saarenmaa and Eamonn O Tuama)
- Regional or thematic participating BONs
  - Asia-Pacific Regional BON
  - J-BON (Japan)
  - EBONE (Europe)



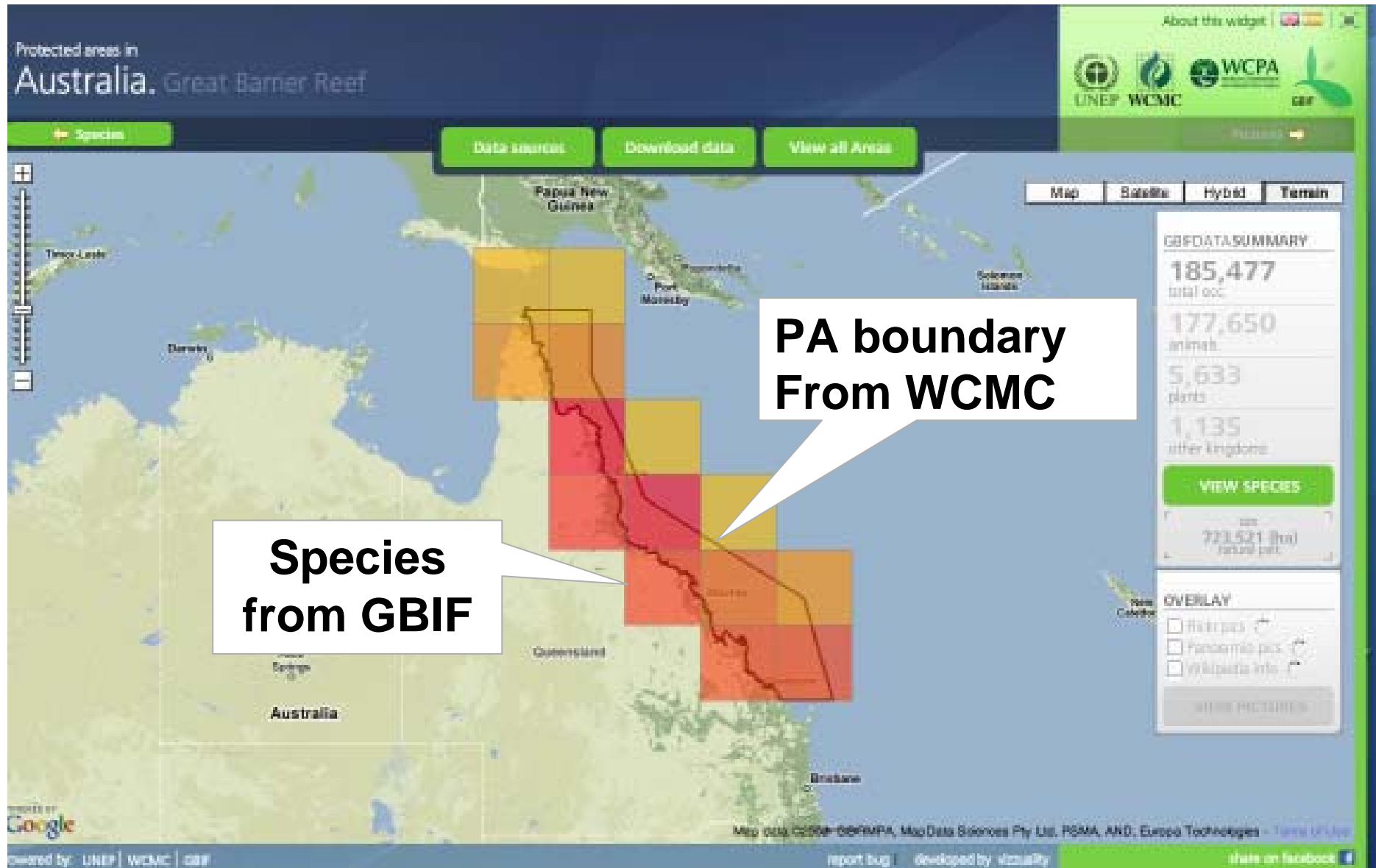
Scholes, RJ et al 2008 Towards a global biodiversity observation system. *Science* 321,1044-5



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# GEO BON Early Products

## Protected Areas Monitoring Pilot

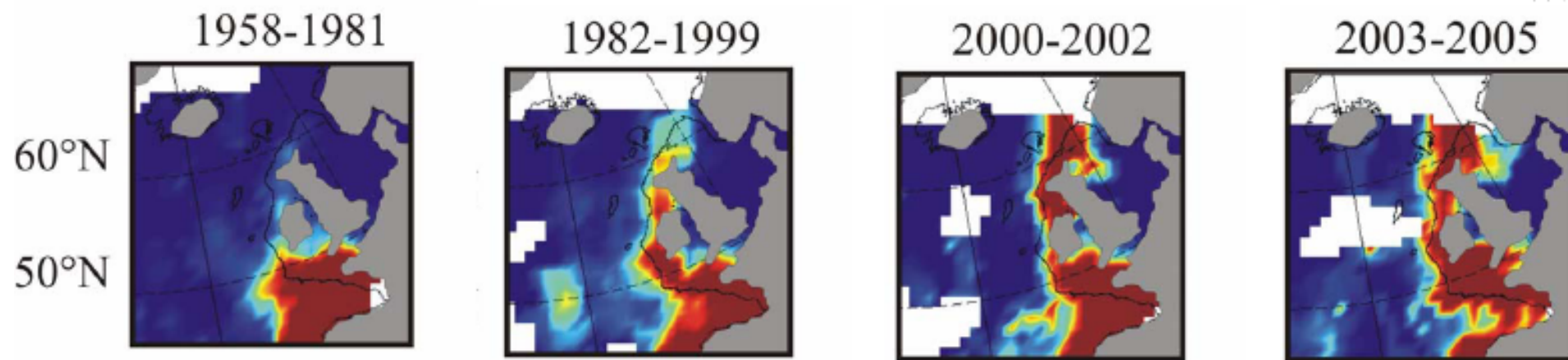




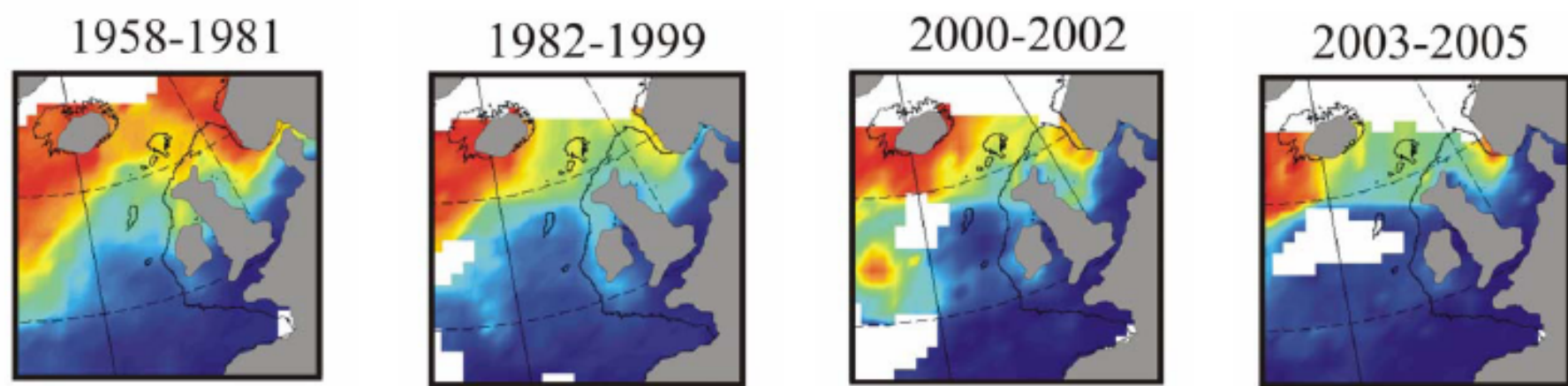
# Early products 2

## Continuous Plankton Recorder

Warm Temperate species



Sub Arctic species



# Links to other relevant tasks within GEOSS

## Biodiversity

### [BI-07-01b Invasive Species Monitoring System](#)

[BI-07-01c Capturing Historical and New Biodiversity Information](#)

## Disturbances

[DI-09-03a: Tsunami Early Warning System of Systems](#)

[DI-09-03b: Implementation of a Fire Warning System at Global Level](#)

## Ecosystems

[EC-09-01a: Ecosystem Classification and Mapping](#)

[EC-09-01b: Ecosystem Status and Trends](#)

[EC-09-01c: Regional Networks for Ecosystems](#)

[EC-09-01d: Protected Areas Assessment and Monitoring](#)

[EC-09-02a: Impact of Tourism on Environmental and Socio-Economic Activities](#)

[EC-09-02b: Impact of Transport Infrastructure Development](#)

[EC-09-02c: Vulnerability of Sea Basins](#)

[EC-09-02d: Vulnerability of Mountain Regions](#)

## Health

[HE-09-03c: Ecosystems, Biodiversity and Health](#)

[EN-07-02: Energy Environmental Impact Monitoring](#)

[CL-09-01a: Enhanced Climate, Weather, Water and Environmental Prediction](#)

[CL-09-01b: Climate Information for Decision-making and Adaptation](#)

## Agriculture

[AG-06-02: Data Utilization in Fisheries and Aquaculture](#)

## System Architecture

[AR-09-03a: Global Terrestrial Observations](#)

[AR-09-03b: Legacy of the International Polar Year 2007-08](#)

[AR-09-03c: Global Ocean Observation System](#)

[AR-09-03d: Global Observing System \(GOS\)](#)

# Next steps

- Early Products' throughout 2010, the International Year of Biodiversity
- GEO BON all working group meeting, Asilomar, USA 22-25 Feb 2010
- The runup to the CBD
  - Preparatory science conference, Nagoya, Japan 22-23 March 2010
  - Inputs to CBD SBSTTA, Nairobi, May 2010
  - World Biodiversity Day, 20 May 2010
  - UN General Assembly special session on Biodiversity, September 2010
  - CoP in October 2010

# What does GEO BON need from you?

- Continued support of the underlying biodiversity observation systems
- Support for incremental costs of contributing to GEO BON
  - Gap-filling
  - Transaction costs of supplying data
- Hosting of specific tasks



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**[http://www.earthobservations.org/geobon\\_par.shtml](http://www.earthobservations.org/geobon_par.shtml)**



# GROUP ON EARTH OBSERVATIONS

SIXTH PLENARY SESSION  
17-18 NOVEMBER 2009  
WASHINGTON, DC

