GEO BON
Group on Earth Observations
Biodiversity Observing Network

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Washington DC
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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 21st 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
- Focused, 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)
GEO BON Early Products
Protected Areas Monitoring Pilot

Species from GBIF

PA boundary From WCMC
Early products 2
Continuous Plankton Recorder

Warm Temperate species
1958-1981
1982-1999
2000-2002
2003-2005

Sub Arctic species
1958-1981
1982-1999
2000-2002
2003-2005
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