

## GEO Week 2018 side event

### “Towards integrated *in-situ* ecosystem observations”

October 29 (Monday), 2018, Room C2: 13:30-17:30

[https://www.earthobservations.org/geo15.php?t=side\\_events](https://www.earthobservations.org/geo15.php?t=side_events) (Registration page is open)

*final version 09, 2018-10-27*

- (1) Welcome and session overview (Michael Mirtl, 5 min)
- (2) In-situ earth observation from the GEO strategic perspective – Gilberto Camara (GEO Secretariat Director) (10 min)
- (3) Critical review and status of in-situ observation in the context of the GEO in-situ observation resources foundational task – Hiroyuki Muraoka & André Obergón/ Douglas Cripe (GEO Secretariat) (20 min)
- (4) Views on in-situ environmental observation and research: Elevator statements from the angle of related side events and previous GEO activities (without slides, 4 min each, in total 40 minutes max.)

Speakers should provide material for further reading (brochures etc.) or put such material on a Cloud directory, which will be provided

- What to observe?
  - (Integrated) Essential Variables and other integration approaches: Yvette Serral (ConnectinGEO), Laetitia Navarro (GEOBON), Jacco Konijn (ENVRIplus, GLOBIS-B)
  - Policy requirements (COP21): Jouni Heiskanen (ICOS)
- What's out there?
  - Network level & “landscape”: Emmanuel Salmon (RISCAPE), Joan Maso (ENEON)
  - Site level: Michael Mirtl (ILTER)
  - The issue of differences between domains (organization, requirements) from the “ocean point of view”: Albert Fischer (GOOS) t.b.c.
- The issue of scales
  - Bob Crabtree (NEON)
- Specific user requirements

- Protected areas: Silvia Giamberini & Antonello Provenzale (EcoPotential, GEO ECO)
  - Mountain areas: Elisa Palazzi (GEO-GNOME) & Carolina Adler (MRI & GEO-GNOME)
  - Perspective of RS data focused analyses: Qinhuo Liu (GEOARC)
  - Ground truthing and service development: Hideaki Shibata (JAXA-JaLTER-PEN)
- (5) The way forward: Building on the asset of experiences of GEO partners with strong stakes in the in-situ observation and synergies with environmental research
- The eLTER – ILTER example and GERI initiative – Michael Mirtl (ILTER) (15 min)
  - Interplay between environmental observation and research – Werner Kutsch (ICOS) (15 min)

(6) Possible **priority activities** and **critical requirements for successful implementation**,

Introduction & Inputs from GEO Programme Board perspectives – Michael Mirtl & Hiroyuki Muraoka (10 min)

**BRAINSTORMING**

- ✧ **Governance** – the in-situ group needs to have simple and clear criteria for membership and a simple, transparent and robust governance structure: who speaks on behalf of whom?
- ✧ **Requirements and contributions** – what is required for efficient work and who does contribute what?
- ✧ **What’s out there?** – We need a reliable overview of the current landscape in terms of major players (networks, projects, national/regional in-situ environmental monitoring) AND a registry of sites/stations as one of the entry points for spotting/accessing information
- ✧ **Reference framework for observation variables** - What is a useful reference matrix for describing the scope of each element (are “Essential Ecosystem Variables” a feasible approach?)
- ✧ Other....
- ✧ **Necessary clarifications:**
  - **Integration/separation of domains** – What works, what didn’t worked? How can we progress efficiently?
  - **Expected timeframe**
  - Other...

Break out groups on priority activities (4-6 groups, 60 minutes incl. break)

(7) Reporting from break out groups (45 min)

(8) Plenary discussion (30 min)

- Contribution to “2020-2022 GEO Work Programme”