







The Joint UK GEO/CEOS Office

Overview, achievements and priorities for 2017-18

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What is CEOS?

The Committee on Earth Observation Satellites
(CEOS) is An international mechanism to coordinate
civil space-based EO programmes and data
exchange.

- 60 space agencies operating 142 EO satellites;
- Three primary objectives:
 - 1) Co-operation of CEOS agencies in mission planning and exploitation.
 - 2) To serve as a **focal point for international coordination** of space-based EO.
 - 3) To provide a **forum for exchange of policy and technical information** to encourage complementarity and system compatibility.
- UK policy lead is UK Space Agency.
- Support from NCEO, key experts in HEIs, Research Orgs and Satellite Applications Catapult.



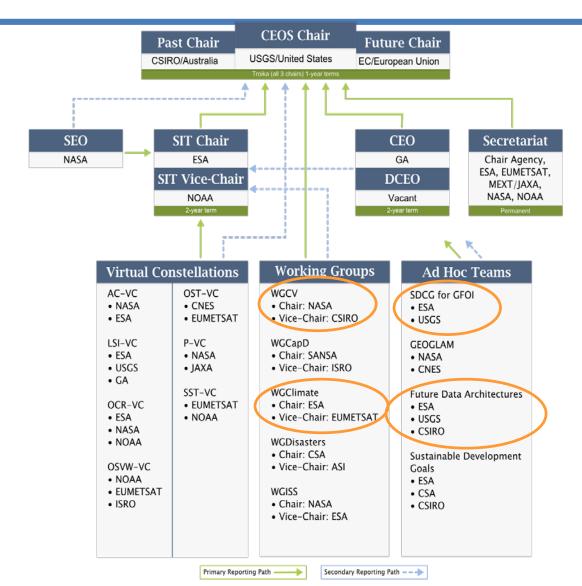








CEOS structure













What is GEO?

The Group in Earth Observations (GEO) is a voluntary partnership of governments and organizations

focused on EO for decision-making.

"a future wherein decisions and actions for the benefit of humankind are informed by coordinated, comprehensive and sustained Earth observations and information."

- 105+ nations; 109+ participating organisations;
- Creating a Global Earth Observation System of Systems (GEOSS) for open data access and software;
- Connecting EO to Sustainable Development Goals;
- Activities: GEO Flagships, GEO Initiatives, Community activities, Foundational tasks;
- UK Policy Lead is Defra, with support from UK Space Agency and NCEO
- Technical support: NERC Centres, HEIs, Research Orgs, Met Office, Ordnance Survey.











GEO structure

- GEO plenary: main body of reps; primary decision-making body. Meets annually.
- GEO Executive Committee (ExCom): oversees activities outside of plenary, guides GEO Secretariat. 16 reps from the 5 GEO caucuses.

Africa

- Senegal
- South Africa *
- Uganda

Americas

- Colombia
- Mexico
- United States *

Asia/Oceania

- Australia
- China *
- Japan
- Korea, Republic of

Commonwealth of Independent States

- Armenia
- Russian Federation

Europe

- European Commission *
- Finland
- France
- United Kingdom

UK has two years on ExCom

* Denotes co-chairs of ExCom who preside over plenary and ExCom

GEO Programme Board oversees GEO Work Programme & align activities with GEO priorities. Reports to ExCom and Plenary, meets 3 x year (Balzter/Marsh).











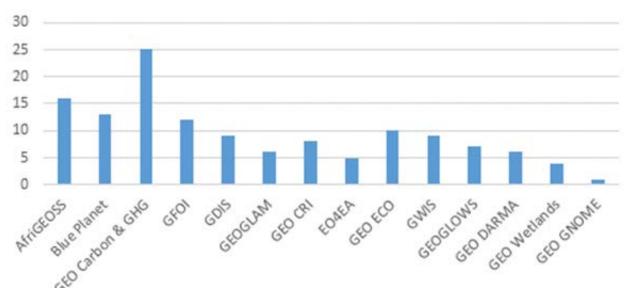
GEO Work Programme

- Flagships, Initiatives and Community Activities.
- Flagships:

Geo Biodiversity Observation Network (GEO BON); GEO Global Agricultural Monitoring (GEOGLAM); Global Forest Observation Initiative (GFOI);

Global Observation System for Mercury (GOS4M).

 GEO Flagships and Initiatives by NCEO staff survey:













Why do we need a UK GEO/CEOS Office?

- Closer policy inputs ← technical to respond to CEOS/GEO initiatives;
- Critical level of resource not possible for each individual organisation
 & more efficiency in the management/co-ordination of tasks;
- Brings together UK inputs to two closely-related international EO activities with leads in different orgs;
- Capacity to send individuals as reps at international level;
- Coordinated community & access to info (Basecamp, website, email list, workshops);
- Raises profile of GEO and CEOS across academia, government and industry, for benefits and impact;
- Higher international profile for UK.



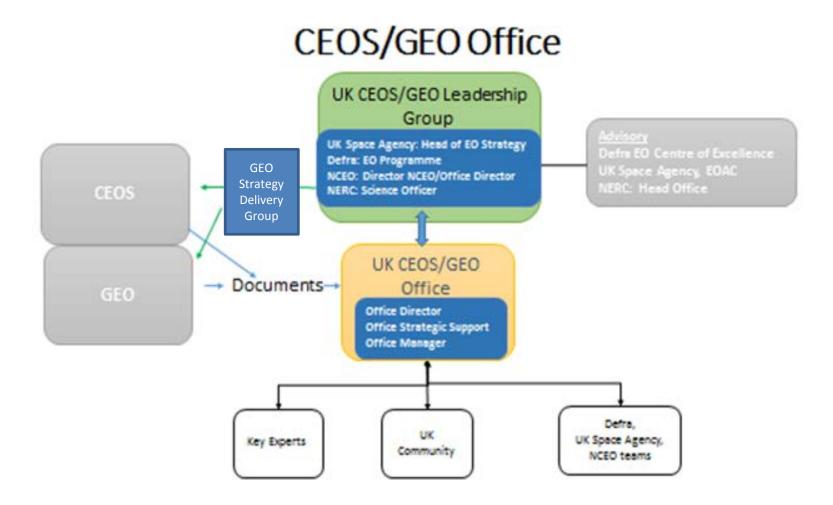








UK Office governance













Who does what?



Prof John Remedios, GEO
Office Principal,
GEO/CEOS Office Lead,
NCEO Director



Beth Greenaway, GEO
Office Principal, Head
of EO UK Space
Agency

Leadership group

Dr Farhana Amin, GEO Office Principal, EO Programme, Defra



UK GEO/CEOS

Office

Dr Zof Stott, GEO Strategic Support, NCEO Prog & Impacts Manager



Dr Sophie Hebden, GEO/CEOS Office Manager, NCEO-Univ of Leicester



Prof Heiko Baltzer, PB member, NCEO-Univ of Leicester



Professor Stuart
Marsh, Alternate PB
member, Nottingham
Geospatial Inst.

GEO
Programme
Board
representatives









GEO Strategy Delivery Group



Chris McQuire
UKSA



Adrian Broad,
Met
Office/Vicky
Pope –
Alternate at
Met Office.



Rollo Home, Ordnance Survey

- Miles Gabriel, GEO Data Sharing
 Working Group correspondence,
 Director Gabriel Information Solutions
 Ltd.
- Garry Baker, UK GEO Data Sharing National Focal Point, British Geological Survey
- Dr Nigel Fox, CEOS Working Group on Calibration and Validation correspondence, National Physical Laboratory
- Professor Chris Merchant, CEOS Working Group on Climate correspondence, NCEO-University of Reading (supported by Dr. Claire MacIntosh and Dr. Caroline Poulsen)
- Dr Joao Carreiras, Future Data Architectures (interim).









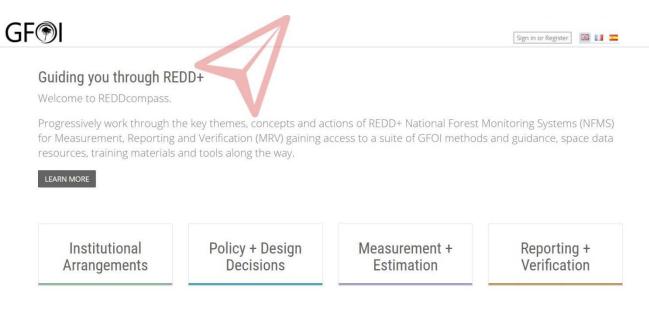


Highlights: achievements 2016-17

Supported at international level the GFOI Methods and Guidance v2.0, distributed via REDDcompass.org:

Methods and Guidance v2.0 author team















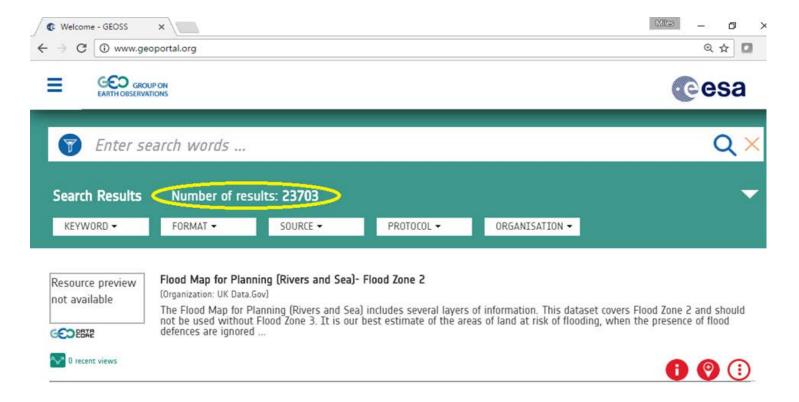






Highlights: achievements 2016-17

- +23,000 UK environmental metadata records replicating onto GEOSS data portal (harvested monthly from data.gov.uk).
- Datasets include in-situ air quality, pesticides in river discharges, sea-ice thickness in Arctic, drought indicators for Europe.













Priorities 2017-18

- 1. Increase UK presence (with consistent national messages) on the key GEO and CEOS meetings including: CEOS and GEO plenaries, GEO Programme Board, CEOS SITs .
- 2. Support experts to attend, influence or lead key groups inc
 - Data access & sharing work (GEO), consolidate metadata harvesting work and review.
 - CEOS Future data architectures / CEOS LSI-VC for analysis-ready data
 - CEOS WG cal/val;
 - CEOS WG Climate
 - GFOI and CEOS GFOI space data group;
 - AfriGEOSS & CEOS WGCapD
- 3. Scope UK relevance to GEO DARMA/CEOS WGDisasters; GEOGlam, CEOS WGISS, GEO Ecosystem accounting.— for agreement in Feb EOAC;
- 4. Office coordination, community communications, website etc. Leverage funding for other actives such as from IPP, ESA EOEP5











Funding overview

2016/17

2017/18

• £126k

 £100k plus NCEO contribution from ODA £30k.

To cover:

- Office function: disseminating info, collating community inputs, strategic support
- Ongoing data activities, GEO WGs and CEOS WG/VCs
- Small amount for new priorities of funders
- Meetings, workshops, conferences (convening and attending)











What's the relevance of CEOS and GEO to me?

- CEOS on international standards and harmonisation e.g.
 Analysis Ready Data, Climate ECVs, Cal/val etc.
- The global convening power of GEO is an attractive platform for international collaboration aiming to identify gaps and reduce duplication for sustainable development and sound environmental management.
- Priority areas for GEO are climate change and UN Sustainable Development Goals and Disaster Risk Reduction.
- Free and open data access contributing to and benefitting from global pool of data.