

**GEO Task AR-07-03:
(GEO Architecture and Data Committee)
Status, including GGOS 2020 and the
GEO/GGOS 2007 Workshop**

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Task AR-07-03

“Ensure the availability of accurate, consistent, homogeneous, long-term stable, global geodetic reference frames as a mandatory framework and the metrological basis for Earth observation.”

Goals:

- **User requirement coordination:** Establish a comprehensive GEOSS database of user requirements concerning georeferencing and geodetic reference frames by identifying, describing and establishing links to relevant user communities in the nine societal benefit areas and conducting appropriate surveys.
- **Georeferencing:** Ensure the availability of appropriate global geodetic reference frames for GEOSS.

Task Sheet is available at

<ftp://ftp.wmo.int/Projects/GEO/TaskSheets/2007-01>

Task Sheets are updated on the basis of Reports (every four months)

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Task Team:

Members:

Germany

Korea

U.K. (soon)

Participating Organizations:

IAG

CEOS

Point of Contact: Hans-Peter Plag (IAG)

Deliverables in 2007:

- **GGOS 2020 Reports: *GEO Reports (to be endorsed by GEO Plenary)***
- **GEO/GGOS 2007 Workshop**

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GGOS 2020 Schedule

- April 2006: Request for Strategy paper of the GGOS Steering Committee.
- July 2006: Initial Writing Team established.
- October 2006: First draft Reference document available for GGOS Workshop.
- January/February 2007: Reviewer team established
- February 2/17, 2007: Versions 0.15/0.16, respectively
- February 19-22, 2007: GGOS Retreat and GGOS 2020 SWT Meeting, Oxnard, California
- Strategy and Reference documents available in April 2007
- Hearing phase, including GEO, IGOS-P, IUGG, national authorities and space agencies
- Final documents available for IUGG, July 2-13, 2007, Perugia, Italy

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GEO/GGOS Workshop 2007:

The GGOS Contribution to GEOSS and an Observing System
for Geohazards and Disaster Prevention

5-6 November 2007

Contribution to

International Geohazards Week, 5-9 November 2007,

ESA-ESRIN, Frascati, Italy

<http://earth.esa.int/workshops/2007Geohazards>

http://geodesy.unr.edu/ggos/ggosws_2007/

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GEO/GGOS Workshop 2007:

The GGOS Contribution to GEOSS and an Observing System for Geohazards and Disaster Prevention

5-6 November 2007

Schedule:

- * April 5, 2007: First Circular
- * April 12, 2007: Registration Opening
- * August 31, 2007: Deadline, submission of abstract
- * September 10, 2007: Notification of acceptance
- * October 5, 2007: Full program available
- * October 20, 2007: Deadline, registration

Actions:

- **Contact Participating Organizations and Member Countries**
- **Integrate other Task Participants in the GGOS 2020 Team**

IGOS-P

IGOS-P-14: May 30, 2007 in Paris

- **Relation between IGOS-P and GEO**
- **“Earth System Dynamics” Theme Proposal due on April 25, 2007**

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(1) User requirement coordination: Establish a comprehensive GEOSS database of user requirements concerning georeferencing and geodetic reference frames by identifying, describing and establishing links to relevant user communities in the nine societal benefit areas and conducting appropriate surveys. Individual steps include:

- Identify relevant user groups in the societal benefit areas, including groups of users relevant for several benefit areas, and create a matrix of users, groups of users and benefit areas.
- Identify and quantify the requirements of the nine benefit areas with respect to georeferencing and access to a long-term stable reference frame.
- Facilitate an assessment of the current status and future requirements for the geodetic reference frames and geodetic observations with particular focus on the needs of the nine benefit areas.
- Identify user-oriented capacity building needs within the different user groups with respect to reference frames.

Establish links between representatives of the different user groups within the nine benefit areas and an appropriate expert team to coordinate georeferencing and reference frame issues across these areas.

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(2) **Georeferencing:** Ensure the availability of appropriate global geodetic reference frames for GEOSS. Individual steps include:

- **Identify steps** towards ensuring consistent, high-accuracy, homogeneous, and long-term stable global geodetic reference frames for Earth observation and the observing systems contributing to GEOSS.
- **Advocate the continuous support** of the global geodetic infrastructure required for the maintenance and development of the global geodetic reference frames at an appropriate level.
- **Critically assess the sustainability** of the global geodetic infrastructure and the Services, which are currently based on: the voluntary commitments of a large number of national agencies, research institutions, and individuals, and consider alternative organizational models, including an intergovernmental framework for the maintenance of the geodetic reference frames, which would support the transition to fully operational reference frames.

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(2) **Georeferencing:** Ensure the availability of appropriate global geodetic reference frames for GEOSS. Individual steps include:

- ...
- Consider the **potential of regional organizations** to address reference frame related challenges in their regions and to stimulate cross-disciplinary solutions.
- Promote the **establishment of sufficient geodetic infrastructure** in regions currently lacking such infrastructure, particularly in Africa and parts of Asia and Latin America.
- **Improve the accessibility and applicability** of the geodetic reference frames for all GEOSS components.

