

Review of the Fourth Session of the United Nations Committee of Experts on Global Geospatial Information Management

6th – 8th August 2014

Dr Vanessa Lawrence CB
Co-Chair UN-GGIM

1st October 2014



Positioning geospatial information to address global challenges

UN-GGIM

United Nations Committee of Experts on
Global Geospatial Information Management

ggim.un.org

Global Forum on Integration of Statistical and Geospatial Information



United Nations
Statistical
Commission



UN-GGIM
UNITED NATIONS INITIATIVE ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT

United Nations Global Forum on The Integration of Statistical and Geospatial Information

4-5 August 2014, UN Headquarters, New York

**This Global Forum is being convened in conjunction with the
4th Session of UN-GGIM, and is open to National Statistical
Organisations, UN-GGIM participants, and invited experts**



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The Fourth Session of the Committee of Experts



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Election of the Bureau



Dr Li
Pengde

Dr Eduardo
Sojo

Dr Vanessa
Lawrence

Sultan
Mohamed Alya



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Global Geodetic Reference Frame

Newsletter

March / April 2014

01

UN-GGIM – Global Geodetic Reference Frame Working Group

How geodesy contributes to strengthen the study of our changing planet

Measuring the planet

Through geodesy, we measure and define the Earth's shape, rotation and gravitational field and changes to these.

Geodesy is fundamental for monitoring changes to the Earth including the continents, ice caps, oceans and the atmosphere. Geodesy is also fundamental for mapping, navigation and universal timing.



THE EARTH TIDE



THE EARTH ROTATION



PLATE TECTONICS



GLOBAL MASS TRANSPORT

EARTH IS A DYNAMIC PLANET and is in constant motion. We monitor the different processes which cause these motions.

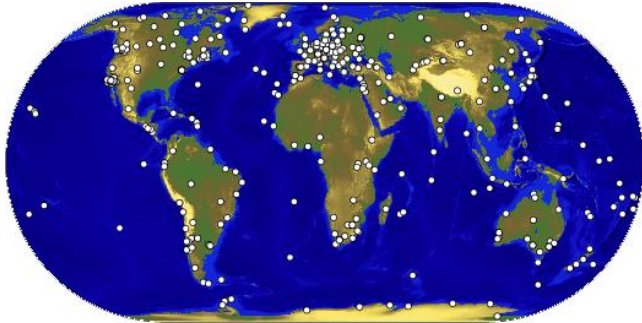


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The Global Geodetic Reference Frame

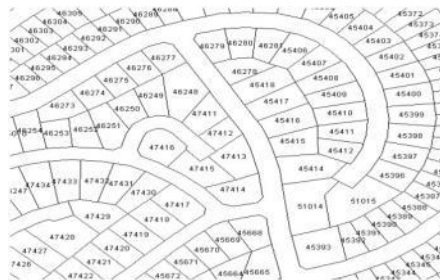


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Global Geodetic Reference System



Regional Reference System



Local application



National Reference System

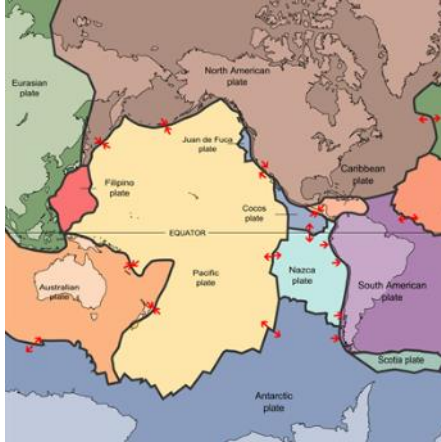


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GGRF applications



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European Involvement in GGRF

Current Members of Working Group:

- Norway (Co-Chair)
- Finland
- France
- Germany
- Sweden
- Switzerland
- United Kingdom

Supported during UN-GGIM 4 Session:

- Denmark
- Finland
- France
- Germany
- Italy
- Moldova
- Norway
- Poland
- Spain
- Sweden
- United Kingdom



European Involvement in GGRF



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Global Geodetic Reference Frame

- Global geodesy is dependent on contributions from nations around the globe.
- No single country can maintain the global geodetic reference frame alone.
- We aim to change from the current system where contributions to the development of the global geodetic reference frame are undertaken on a “best efforts” basis to one where they are made through a multilateral collaboration under a UN mandate.



UN-GGIM: Global Geodetic Reference Frame

- UN-GGIM endorsed the draft Resolution and requested that the UN-GGIM Secretariat refers the Resolution to ECOSOC for its endorsement and further referral to UN General Assembly.



THE EARTH TIDE



THE EARTH ROTATION



PLATE TECTONICS



GLOBAL MASS TRANSPORT



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Determination of global fundamental geospatial data themes

National and Regional Examples:

- Africa – 10 fundamental data themes
- Europe – INSPIRE 9 core reference geographies
- ANZ – 10 agreed foundation spatial data themes.

Participation during UN-GGIM 4 Session:

- United Kingdom
- France
- Spain
- Norway
- Netherlands
- Italy



Trends in national institutional arrangements in geospatial information management

- Working Group lead by Spain set-up following UN-GGIM 3.
- Aim is to “identify best practices and sets of institutional models and legal frameworks for national geospatial information management”



Legal and policy frameworks, including issues related to authoritative data



The Committee of Experts:

“Noted the increased location-based technological developments around the world that could impact the development of legal and policy frameworks as they apply to the collection, use, storage and dissemination of geospatial information.”

Participation during UN-GGIM 4 Session:

- France
- Sweden
- United Kingdom



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UN-GGIM and International Standards

Two formal reports submitted to UN-GGIM4 and a complementary paper:

- A guide to the role of standards in geospatial information management. Authored by OGC, ISO, and IHO
- Companion document on standards recommendations by tier. Authored by OGC, ISO, and IHO
- National Mapping Authority Perspective: International Geospatial Standards – Authored by Ordnance Survey and INEGI, Mexico



Implementation and adoption of standards for the global geospatial information community

The Committee of Experts:

- “Noted that there is still a need to continue to raise the awareness of standards and related policies to e-government agendas.”
- “Took note of the suggestions... to build on the Guide and Companion Document to include the following areas: case studies; business value proposition; data capture and quality issues; and related policies.”

Participation during UN-GGIM 4 Session:

- Denmark
- France
- United Kingdom



National Mapping Authority Perspective: International Geospatial Standards

- Why the paper?
 - The paper has been authored to provide a non-technical view of international standards
 - It provide examples and best practice of how National Mapping Authorities are using international standards.
 - It addresses a need raised by Member States at UN-GGIM3
- Who has contributed?
 - The paper has been authored by Ordnance Survey Great Britain and INEGI Mexico.



UN-GGIM and International Standards

“The Guide”
and
“The Companion Document”



Available to download from the UN-GGIM website

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Integration of geospatial, statistical and other information

Expert Group comprised:

- Finland
- France
- Germany
- Norway
- Poland

Participation during UN-GGIM 4 Session:

- Italy
- France
- Germany
- Poland
- United Kingdom



Regional Committees



UN-GGIM: Africa



UN-GGIM: Arab States



UN-GGIM: Europe



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UN-GGIM Committee of Experts

UN-GGIM
Asia-Pacific

China
Rep. of Korea
Japan

WG 1
Geodetic
Reference Frame
for SD

WG 2
Data Sharing &
Integration for
Disaster Mmnt.

WG 3
Place-Based
Information for
Economic Growth

UN-GGIM
Africa

South Africa
UN ECA

CODIST-Geo

AFREF
African Reference
Frame

UN ECA: Geoinfo
merged with
Statistics. 3/2013
CODIST meeting
recommended
CODIST-Geo
become UN-GGIM
Africa. Yet to be
ratified.

UN-GGIM
Arab States

Member States
to be elected

To be
determined

UN-GGIM Arab
States placed on
UN ESCWA
Commission
Agenda for 2014.
First meeting in
Jordan convened
February 2014.

UN-GGIM
Americas

Mexico
Chile
Mexico

Working
Groups &
Region Vocals

PAIGH
Pan Amer. Inst. of
Geography and
History

SIRGAS
Geocentric
Reference System
for Americas

GeoSUR
Geo. Network for
Latin America &
Caribbean

UN-GGIM
Europe

Member States
to be elected

European
Commission
+ Eurostat

Euro
Geographics

European
Environment
Agency

WG1: France
WG2: Sweden
WG3: Italy



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UN-GGIM: Europe

The Committee of Experts:

“Congratulated the group of European countries for their extensive work to define modalities of cooperation and formulate a common work programme, endorsed the establishment of UN-GGIM: Europe, welcomed the announcement to hold the first plenary meeting in Moldova in October 2014, and invited UN-GGIM: Europe to report regularly to the Committee of Experts”



Fifth Session of the Committee

Date: 5th – 7th August 2015

Location: United Nations Headquarters, New York



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