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LAGF 2015 / UN-GGIM: AMERICAS. Mexico City November 11, 2015



UN Resolution -Global Geodetic Reference Frame and the development of a Roadmap

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First geospatial UN resolution



General Assembly, 26 February 2015

UN-GGIM

Photo: Kyoung-Soo Eom

To benefit People and Planet



RESTLESS EARTH



GGRF UN Resolution: Key objectives

- Develop a global geodetic roadmap for the GGRF
- Global cooperation in providing technical assistance in geodesy for those countries in need to ensure the development, sustainability and advancement of a GGRF
- Implement open geodetic data sharing
- Improve and maintain national geodetic infrastructure
- Enhanced multilateral cooperation that addresses infrastructure gaps and duplications globally
- Improved Outreach to make the GGRF more visible and understandable to society



A significant response rate to GGRF survey

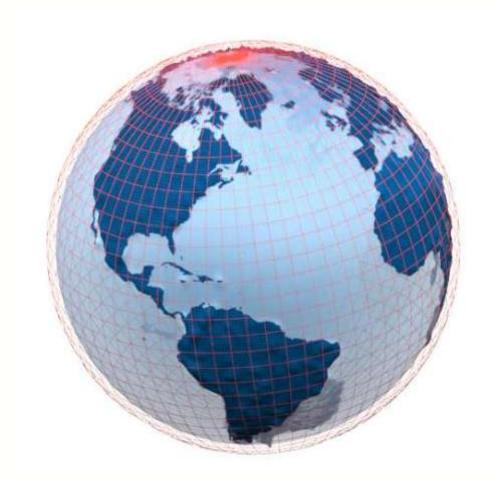


Photo: Anne Jorgensen



Survey conclusion: Global cooperation is key

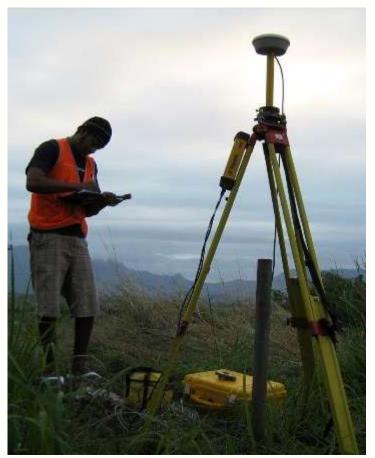
 A joint international governance effort is needed in order to meet the objectives of the GGRF resolution





A roadmap for the enhancement of geodesy

- Governance
- Infrastructure
- Policy, standards and conventions
- Education, training and capacity building
- Communication and outreach







Communicate GGRF





Communication Strategy

GOAL

A roadmap for enhancement of the Global Geodetic Reference Frame and multilateral cooperation on geodesy

Communication challenge

Make the UN-GGIM delegates, decision makers and geodetic opinion leaders to understand how important it is to communicate the GGRF roadmap in own regions and countries in order to achieve a sustainable multilateral collaboration.

Communication objectives

Reach UN-GGIM delegates, decision makers, geodetic opinion leaders to communicate the importance of the GGRF roadmap and why sustainable global cooperation on geodesy is key to meet the objectives of the GGRF resolution.

Ambitions

- . Support and enthusiasm for GGRF roadmap and sustainable global cooperation on geodesy.
- . UN-GGIM 6th Session endorses the GGRF Roadmap in August 2016.

Strategy

- best practices for the global use the communication geodetic reference frame, particularly in developing countries, through social media.
- . Capture experiences and . Develop new tools and tools including newsletters, unnggrf.org, @unggrf-twitter account and GGRF-video newsletter distribution and for enhancement of global cooperation on geodesy.
 - . Communicate the importance of the UN resolution and the importance of their contribution to the GGRF roadmap among the UN-GGIM nations and regions and ask them to spread the message in their country through communications tools including the newsletters. www.unggrf.org, social media and GGRF-video.
- · Make use of international science networks and geodetic opinion leaders to communicate the importance of geodesy to their respective science domain.

UN-GGIM delegates Decision makers/ Opinion leaders in interpoliticians national research/science networks Develop good GGIM ambassadors Increase the knowledge about the Influence the opinion leaders who will provide advocacy UN resolution and the ongoing to share the message about the for the UN resolution and the work with the GGRF roadmap. Importance of the UN resolution and implementation of the GGRF Explain that joint international the GGRF roadmap. roadmap in their countries and effort is needed in order to regions. meet the objectives of the GGRF resolution o? - - - - - - o° . . . y ...

Communication platform

- . Geodesy is a global science. Through geodesy we measure and define the Earths shape, motion, rotation, gravitational field and changes to these.
- . Geodesy is fundamental for monitoring changes to the Earth including the continents, ice caps, oceans and the atmosphere. Geodesv is also fundamental for mapping. navigation and universal timing.

GGRF

- . Geodesy provides a very accurate and stable coordinate reference frame for the whole Earth. This coordinate system allows you to relate measurements taken anywhere on the Earth with similar measurements taken at a different time or location.
- . Global Geodesy is dependent on contributions from nations all around the globe. We aim to change from the current system where contributions to the development of a global geodetic reference frame are undertaken on a "best efforts" basis to one where they are made through multilateral cooperation under a UN mandate.

UN resolution, survey and roadmap

- . UN General Assembly adopted its first resolution "A global geodetic reference frame for sustainable development* - recognizing the importance of a globally-coordinated approach to geodesy. The discipline focuses on accurately measuring changes in the shape, rotation and gravitational field of planet Earth.
- . A global survey identified that a joint international governance effort is needed in order to meet the objectives of the GGRF resolution.
- . A Working Group on the Global Geodetic Reference Frame has begun working on the roadmap to build a framework to implement the Global Geodetic Reference Frame.



Timeline 2015 - 2016

Sept-October Nov-December March-April May January. February June August . Working Group . Working Group . Working Group . Working Group: . Newsletter for UN-UN-GGIM 6th session · Report and GGRF · Working Group GoTo/telecon-GoTo/Telecon-GoTo/Telecon-meeting + endorses the GGRF GoTo/Telecon-meetings GoTo/telecon-GGIM 6th session Roadmap to UN-GGIM meeting WG-meeting for those Roadmap in August. meetings . Working Group to meetings: . GGIM-secretariat posts 6th session New York 15 September . Send out 1. draft present at IG5, Sydney? combine feedback and 23 November + the report on ggim-web · Prepare A3 Roadmap-15 October Deadline for feedback build cohesive roadmap 14 Dec. (San Fran) roadmap mid/ end glossy version for UN- UN-GGIM · UN-GGIM regional from regions and others document January (after the regional meetings GGIM 6th session meetings and on 1. draft discussions in San and involvement: involvement: (key elements) Francisco and the Europe incl EUREF Americas incl and Asia Pacific regional input and SIRGAS and Africa · Revised standard incl AFREF consultations) presentation on · Consultations IAG. UN GGRF FIG, GEO, CEO · Revised before meeting in communication San Francisco strategy Lead authors and · Revised timeline groups writing Newsletter · 1 draft of roadmap in progress at 5an Francisco meeting



Way forward

- Final roadmap endorsed at the UN-GGIM 6th session in early August 2016
- Outcomes described by UN General Assembly resolution are included
- Involvement of UN-GGIM regions and consultation with IAG, FIG, GEO, CEOS in progress
- Draft will be sent out for comments
- Working Group to combine feedback and build cohesive document
- Roadmap deadline in May 2016



