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International GNSS Service Overview and Status

IGS Central Bureau NASA/JPL

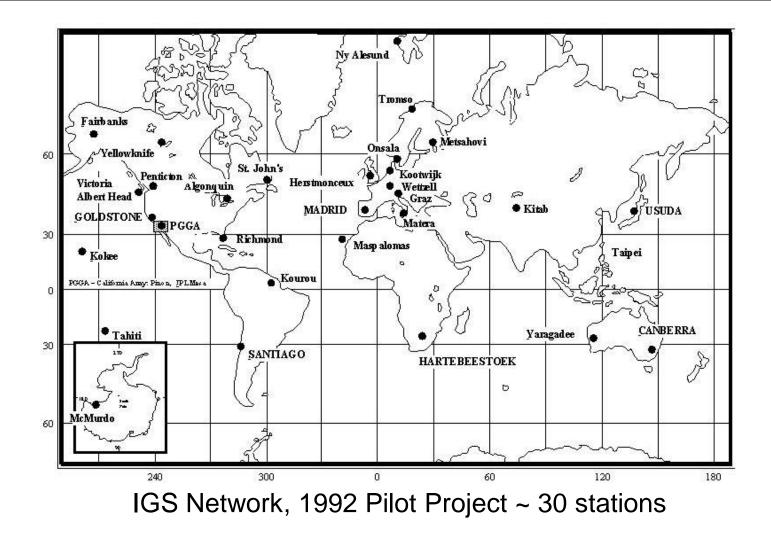
Ruth Neilan FIG - International Federation of Surveyors Seminar: Reference Frames in Practice May 2, 2016 Christchurch, New Zealand



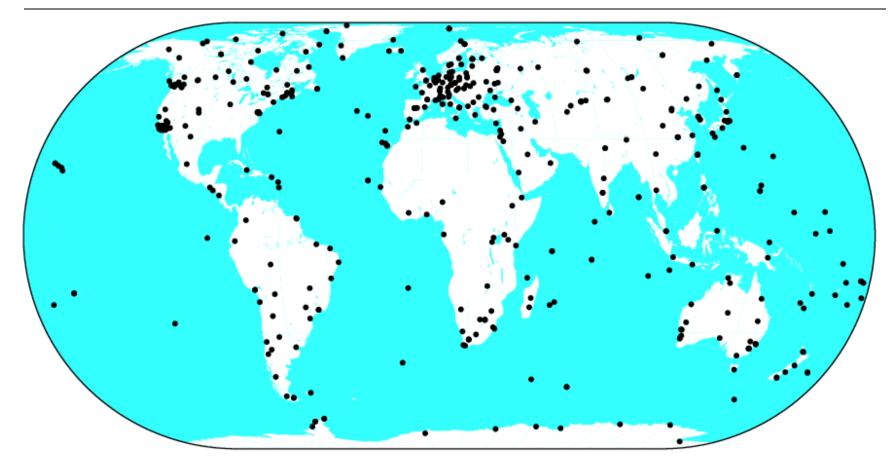
- Expand participation with IGS MGEX Multi-GNSS Experiment, many in Real-Time
 - Large data set for research and analysis, mission and project support
 - With Multi-GNSS SIRGAS, APREF, AFREF, EUREF and other countries can support evolution of the reference frame, common and robust
- Expand Real-time participation and access IGS Real-time Service
 - All data and products openly available for **ALL** IGS data and products
- Contribute to the UN Global Geodetic Reference Frame initiative within the UN Global Geospatial Information Management (UNGGIM, UN GGRF)

http://www.unggrf.org









GM7 2015 Sep 27 16:52:48

IGS Network September 2015 – 500+ stations, 110+ countries, 200+ organizations

Igs.org and still active igscb.jpl.nasa.gov/network/netindex.html



Products

Working Groups

Resources

About

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http://igs.org

IGS – FIG Reference Frames in Practice Christchurch, NZ May 2, 2016



IGS Presents

Videos to enlighten and inspire



IGS Multi-GNSS Experiment

Tracking, collating, and analyzing all available GNSS signals

Events Guide to Using IGS Products Updated United Nations Committee of Experts on Global Ge... 2015-09-17 2015-08-03 Release of RINEX Version 3.03 **GGOS** Geodetic Metadata Workshop 2015-08-05 2015-08-10 Multi GNSS Antenna Phase Center Model Introduced 2015-07-21 2015-09-14 ION GNSS 2015-07-09 43 MGEX Stations 2014 IGS Technica 2015-05-26

2015 Strategic Imp 2015-01-01

Added to IGS Network	2015-10-27	Fifth International Galileo Science Coloquium
al Report	2015-11-01	International Committee on GNSS, 10th Meeting
plementation Plan	2016-02-08	IGS Workshop "GNSS Futures" *NEW DATES*

ICSU Copyright 2015 IGS Network Products Analysis Resources Social GPS Mailing List Facebook Map Data Knowledge Base Google+ Formats GLONASS FTP Instagram LinkedIn Events Presents Twitter Youtube About Organization

Strategic Plan

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New

http://igs.org





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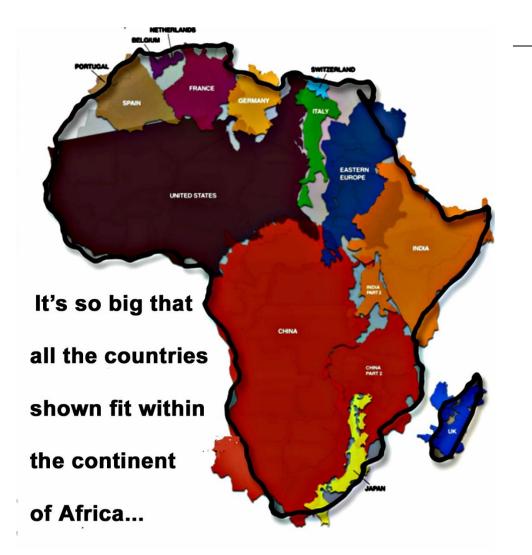
- International Committee on GNSS
 - <u>http://www.unoosa.org/oosa/en/ourwork/icg/icg.html</u> (Or google ICG UN OOSA)
 - Forum for System Providers as Members to meet along with Associate Members and observers
 - Providers: GPS, GLONASS, Galileo, Beidou, QZSS, IRNS
 - Annual meetings Next in Sochi, Russia Nov 6-11, 2016
- Involvement in ICG
 - 'WG-D' Reference Frames, Timing and Applications
 - Co-Chaired by IAG, IGS, FIG (likely suspects)
 - Task Force on International GNSS Monitoring and Assessment (IGMA)

Global Geodetic Observing System

- GGOS
 - <u>http://www.ggos.org</u>
 - A key entity of the International Association of Geodesy (IAG)
 - Integrates the IAG Services, IGS, IERS, ILRS, IVS, IDS, IGFS
- GGOS has three key focus areas as working groups:
 - 1 Geohazards (Dr. John LaBrecque, USA, retired NASA)
 - See the Call for Participation at IGS.org for
 - GNSS Augmented Tsunami Early Warning (GATEW)
 - 2 Unified Height Systems (Dr. Laura Sanchez, DGFI, Germany)
 - 3 Sea Level Change (Dr. Tilo Schöne, GFZ, Germany)



How Big is Africa? Our Maps are lying to us







Explore igs.org!

Acknowledging the support and efforts of: LINZ, FIG, IAG, ICG, NZIS, UN GGIM And the sponsors: LINZ, Leica Geosystems, and Trimble