Be part of "Geo for All"

1. Activities of the Network

- **Ottawa, Ontario, OSGeo Meetup Group** meets on the third Thursday of each month. If you are located in the area, go to the link to sign up to the group and get updates about future events.

- Dr. Patricia Solis from Texas Tech University announced the first webinar of the Year on “Get to know the YouthMappers” ([www.youthmappers.org](http://www.youthmappers.org)).
  Capitalizing on web-based open geospatial technologies, YouthMappers seeks to cultivate a generation of young leaders to create resilient communities and to define their world by mapping it. Uniting a global network of student-led chapters, now on 100 university campuses in 30 countries, we promote the creation and use of open data on open platforms in ways that directly address development challenges, both in the local community and around the world through remote collaborations. Mapping applications focus on a range of significant issues like food insecurity, public health, natural disasters, and peaceful development. The program supports university efforts to offer meaningful global learning experiences, build a socially engaged citizenry, enhance long-term scientific capacity around the world, and foster university student leadership. The program is supported by a grant from the United States Agency for International Development's GeoCenter and co-founded by Texas Tech University, George Washington University, and West Virginia University.
  Video recording: [https://www.youtube.com/watch?v=h57072fPuU](https://www.youtube.com/watch?v=h57072fPuU)
  Slides: [https://drive.google.com/open?id=1Bib29wDmQGkGG_jmJvMVxIfO9SiBMgg](https://drive.google.com/open?id=1Bib29wDmQGkGG_jmJvMVxIfO9SiBMgg)

- ESA and NASA are working jointly to advance the ESA-NASA WebWorldWind platform, [https://worldwind.arc.nasa.gov/web/](https://worldwind.arc.nasa.gov/web/). ESA has built several apps with it, including the EO Browser for [http://sentinel-hub.com/Get the Sentinel App for iOS](http://sentinel-hub.com/Get the Sentinel App for iOS) [Get the Sentinel App for Android](https://store.android.com/apps/). continued on page 4
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Email: na.gfa.chair@osgeo.org

Iberoamerican Region
Chairs: Sergio Acosta y Lara (Uruguay) and Silvana Camboim (Brazil) and Antoni Pérez Navarro (Spain). Subscribe at mail list: https://lists.osgeo.org/mailman/listinfo/geoforall-iberoamerica
Email: geoforall-iberoamerica@lists.osgeo.org.

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Email: africa.gfa.chair@osgeo.org

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Email: asia.gfa.chair@osgeo.org

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Email: eu.gfa.chair@osgeo.org

GeoForAll Themes

- **OpenCity Smart**
  - Chairs: Chris Pettit (Australia), Patrick Hogan (USA)
  - Website: http://wiki.osgeo.org/wiki/Opencitysmart
  - Website: http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-urbanscience

- **Teacher Training & School Education**
  - Chairs: Elżbieta Wołoszyńska-Wiśniewska (Poland), Nikos Lambrinos (Greece)
  - Mail list: geoforall-teachertraining@lists.osgeo.org
  - Website: http://wiki.osgeo.org/wiki/GeoForAll_TeacherTraining_SchoolEducation

- **CitizenScience**
  - Chairs: Peter Mooney (Ireland) and Maria Brovelli (Italy)
  - Mail list: https://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-geocrowd
  - Website: http://wiki.osgeo.org/wiki/Gecrowdsourcing_CitizenScience_FOSS4G

- **AgriGIS**
  - Chairs: Didier Leibovici (U.K.) and Nobusuke Iwasaki (Japan)
  - Mail list: https://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-agrigis
  - Website: http://wiki.osgeo.org/wiki/Agrigis
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The WorldWind Explorer web app framework:
http://explorer.worldwind.earth
https://github.com/NASAWorldWindResearch/WorldWindExplorer

The WorldWindServerKit (WWSK)
The Explorer is now integrated into NASA’s GeoServer distribution, the WorldWind Server Kit (WWSK, ‘whiskey’)
https://worldwind.arc.nasa.gov/serverkit/
https://github.com/NASAWorldWind/WorldWindServerKit

The WWSK is scale-able, it can be deployed to a server or run standalone on a laptop.

An agency could host a WWSK server (GeoServer) on the internet or an intranet.

An agency could publish their fuel models and maps in their WWSK server(s).

WWSK can access data/maps/imagery from other remote Web Map Service (WMS) servers, thus a WWSK server could be configured to provide a single point of entry for many WMS services.

2. B) GeoAmbassador of the Month

Barend Köbben

By Suchith Anand
GeoForAll

Dear Colleagues,

On behalf of the GeoForAll community, it is my great pleasure to honour Barend Köbben as our GeoAmbassador. Barend holds an MSc in Geography, specialising in Cartography, from Utrecht University in The Netherlands. He worked for 9 years as a Lecturer in cartography at that university and then moved to the International Institute for Geo-Information Sciences and Earth Observation (ITC) in 1997. The ITC is an international school providing courses on GIS and Remote Sensing to students from all around the world, ranging from short courses to 18-month MSc degree courses, as well as a PhD programmes. Since 1 January 2010, Barend has been a Faculty of the University of Twente. Barend is at present Senior Lecturer in GIS and cartographic visualisation in the Department of Geo-Information Processing (GIP).

Barend Köbben

His teaching subjects include Cartographic Theory, WebCartography and WebGIS, Geo-webservices, web application building, and 3D visualization. Outside ITC, Barend is involved in teaching short courses and workshops in Open Source GIS & WebMapping, promoting the use of the Open Source geospatial applications and data. The Commission on Open Source Geospatial Technologies of the International Cartographic Association (ICA) organised a series of short courses and workshops on Open Source GIS & Webmapping, for which we at ITC have developed course materials and provide teaching staff and resources.

These are mostly hands-on practical workshops, intended to introduce the possibilities and pitfalls of using Open Source applications for GIS and webmapping to people who are interested in this...
technology, but that do not yet have much experience in the actual practical use of OSGEO applications.

Barend used a set of exercises that guide the participants in setting up a webmapping site using OpenStreetMap data, adding their own data using the desktop QGIS application, serving that data as a Web Map Service using Geoserver and/or Mapserver, and finally bringing it all together in an interactive “slippy map” website using OpenLayers. Barend is generally using the free and open source GIS and webmapping applications from the OSGEO Live DVD. Barend teaches and has taught these workshops and courses in many guises: from very short (2 hours) to long (2 to 3 weeks), either face-to-face or using Distance Learning technology.

Some examples of the Past courses & workshops that he contributed include:

- **Hands-on Open Source GIS & WebMapping for UN staff** – 24 & 25 November 2014 – Vienna (Austria) – 2-day workshop organized especially for members of staff of United Nations (UN) bodies and entities.
- **Hands-on Workshop Cartography in a Web World** – 3 October 2013 – Amsterdam (Netherlands) – Intro to OpenStreetmap, OpenLayers and CartoDB
- **Concepts and tools for Spatial Data Visualization** – 13 December 2012 – Amsterdam (Netherlands) – Intro to OpenStreetmap, OpenLayers and CartoDB
- **Hands-on Workshop Open Source GIS & WebMapping for UN staff** – 20 & 21 November 2012 – Vienna (Austria)
- **Workshop Open Source GIS & WebCartography** – 24 April 2012 – Avignon (France)
- **Walk-in Workshop Open Source GIS & WebCartography** – 5th, 6th & 7th July – Paris (France)
- You can also kobben@itc.nl to request a course to be organised for your organization.

Barend participates in the research activities of the departmental Research Theme STAMP (Spatio–Temporal Analytics, Maps and Processing). His main research interests are:

- Automated mapping in a services environment, with middleware services and Open Web clients (using the D3 library).
- Animated vector map services, using, among others, the RIMapper WMS Open Source platform that he developed.
- The SDIlight concept. The term SDI for Spatial Data Infrastructure may be usually connected with (very) large regional or national spatial data warehouses, but the principles of SDI can also be applied in more simple and cost–effective ways. The down–to–earth approach of SDIlight provides students and researchers with a platform for relatively simple, low–cost, yet powerful ways of sharing data amongst various distributed offices and institutions as well as the general public. To achieve this, he uses open standards whenever available and open source solutions where possible.

Barend has been involved in various consultancy projects in The Netherlands, India, Iran, Italy, Malaysia, Namibia, South Africa, Thailand, and Zambia.

Barend is Map Editor and member of the Editorial Board of Geografie (Journal of KNAG - Koninklijk Nederlands Aardrijkskundig Genootschap, ISSN 0926-3837); Charter Member of OSGEO, the Open Source Geospatial Foundation; and Member and Publications Chair of the ICA Commission on Open Source Geospatial Technologies.

We are proud to honour Barend Köbben as our GeoAmbassador, and we are extremely grateful for his contributions to GeoForAll and for his selfless contributions for expanding geoeducation opportunities for all.

Best wishes,
Suchith Anand
4. Conferences

**Europe**

**February 2018**
1. 19-22 February: FOSS4G-IT 2018
   Venue: Rome, Italy.

**March 2018**
2. 8-9: FOSS4G UK 2018.
   Venue: London, UK (The Geovation Hub 1 Sekforde Street Clerkenwell Green London EC1R 0BE)
3. 19-20: Interest Group on Agricultural Data (IGAD) pre-Conference meeting
   Venue: Berlin, Germany.

**April 2018**
4. 8-13: European Geosciences Union General Assembly
   Venue: Vienna, Austria
5. 17-20 April: GISRUK 2018 - 26th annual GIScience Research UK conference
   Venue: University of Leicester, UK.
   The closing date for the submission is on December 15th, 2017

**June 2018**
   Venue: Lund, Sweden

**October 2018**
7. 1-5 October: ISPRS Com IV Symposium
   Venue: Delft, The Netherlands

**North and Central America and the Caribbean**

**March 2018**
8. 19-23 March: 10th International Congress of Geomatics GEOMÁTICA 2018
   Venue: Havana, Cuba
   Convention Website: http://www.informaticahabana.cu/es

**May 2018**
   St. Louis, Missouri, USA
   **Call for papers:** Workshop submission deadline is January 15, 2018. Talk submission deadline is February 8, 2018.

**June 2018**
10. 6-9: MESCYT - XIV International Scientific Research Congress
    Venue: Santo Domingo. Dominican Republic
    Deadline for proposals is 15 April 2018

**Africa**

**April 2018**
11. 17-19 April: 7th Digital Earth Summit “Digital Earth for Sustainable Development in Africa”
    Venue: Faculty of Science, Chouaib Douakkali University El Jadida, Morocco.

**August 2018**
12. 27-28 August: FOSS4G 2018 Workshop
    28-31 August: FOSS4G 2018: Main Conference
    Venue: Dar es Salaam, Tanzania
    The deadlines of the FOSS4G Academic Track in Dar Es Salaam have been changed in this way:
    Abstract Submission deadline is 15 February 2018
    Abstract acceptance notice is 15 March 2018
    Early Bird Registration closes 15 May 2018
    Camera ready paper for the Proceedings has to be submitted by 30 April 2018

**September 2018**
    Venue: Dar es Salaam, Tanzania

**October 2018**
14. 22-26 October: International Data Week ‘Digital Frontiers of Global Science’
    Venue: Gaborone, Botswana
7. Training programs

- GeoForAll educational materials have been transferred to our new web site. The new hyperlink is https://www.osgeo.org/resources/

10. New free and open software, open data, etc.

- 7.4 release series is available at New Features in GRASS GIS 7.4

The new update release GRASS GIS 7.4.0 is available. It provides more than 480 stability fixes and improvements compared to the previous stable version 7.2. An overview of the new features in the 7.4 release series is available at New Features in GRASS GIS 7.4.

Efforts have concentrated on making the user experience even better, providing many small, but useful additional functionalities to modules and further improving the graphical user interface. Users can now directly download pre-packaged demo data locations in the GUI startup window. Several modules were migrated from addons to the core GRASS GIS package and the suite of tools for ortho-rectification was re-implemented in the new GRASS 7 GUI style. In order to support the treatment of massive datasets, new compression algorithms were introduced and NULL (no-data) raster files are now also compressed by default. For a detailed overview, see the list of new features. As a stable release series, 7.4.x enjoys long-term support.

Binaries/Installer download:
- winGRASS 7.4.0: 32bit standalone installer | 64bit standalone installer
- winGRASS 7.4.0 OSGeo4W: 32bit OSGeo4W installer | 64bit OSGeo4W installer Debian EPEL6 (CentOS6, RHEL6, ...)
- Fedora and EPEL7 (CentOS7, RHEL7, ...)
- ubuntugis-unstable (Ubuntu LTS - Xenial, Trusty)
- grass-stable (Ubuntu non-LTS - Zesty)

... further binary packages for other Linux distributions and Mac OSX will follow shortly, please check at software downloads.

Source code download:
- https://grass.osgeo.org/grass74/source/
- https://grass.osgeo.org/grass74/source/grass-7.4.0.tar.gz

To get the GRASS GIS 7.4.0 source code directly from SVN, see here.

More details:
- See a more detailed announcement:
  - https://trac.osgeo.org/grass/wiki/Release/7.4.0-News
  - https://trac.osgeo.org/grass/wiki/Grass7/NewFeatures74 (overview of new 7.4 stable release series)
  - https://grass.osgeo.org/grass7/manuals/addons/ (list of available addons)

First time users may explore the first steps tutorial after installation.

About GRASS GIS

The Geographic Resources Analysis Support System (https://grass.osgeo.org/), commonly referred to as GRASS GIS, is an Open Source Geographic Information System providing powerful raster, vector and geospatial processing capabilities in a single integrated software suite. GRASS GIS includes tools for spatial modeling, visualization of raster and vector data, management and analysis of geospatial data, and the processing of satellite and aerial imagery. It also provides the capability to produce sophisticated presentation graphics and hardcopy maps. GRASS GIS has been translated into about twenty languages and supports a huge array of data formats. It can be used either as a stand-alone application or as backend for other software packages such as QGIS and R geostatistics. It is distributed freely under the terms of the GNU General Public License (GPL). GRASS GIS is a founding member of the Open Source Geospatial Foundation (OSGeo).

The GRASS Development Team, Feb 2018.
12. Articles

Abbreviations

by Nikos Lambrinos, Chief Editor, and Michael Finn.

For those who would like to support this effort, please send any abbreviations to the Chief Editor (labrinos@eled.auth.gr).

3DEP: 3-D Elevation Program
AAG: Association of American Geographers
AGS: American Geographical Society
AM/FM: Automated Mapping/Facilities Management
ASPRS: American Society for Photogrammetry and Remote Sensing
AURIN: Australian Urban Research Infrastructure Network
BBSRC: Biotechnology and Biological Sciences Research Council
BIM: Building Information Modelling
CAADP: Comprehensive African Agricultural Development Programme
CAD: Computer Aided Design
CaGIS: Cartography and Geographic Information Society
CEGIS: Center of Excellence for Geospatial Information Science
CEOS: Committee on Earth Observation Satellites
CI: CyberInfrastructure
CLGE: The Council of European Geodetic Surveyors
CODATA: Committee on Data for Science and Technology
COGO: Coordinate geometry
CRS: Coordinate Reference System
CSA: Canadian Space Agency
CUDA: Compute Unified Device Architecture
DAAC: Distributed Active Archive Center (of NASA)
DEM: Digital Elevation Model
DSM: Digital Surface Models
DWG: Design file format
DXF: Drawing Interchange File
ECMWF: European Center for Medium range Weather Forecasting
EOS: Earth Observation Science
EOSDIS: Earth Observing System and Data Information System
EPA: Environmental Protection Agency
EPSG: European Petrol Survey Group (used in projection IDs)
ESA: European Space Agency
ESERO: European Space Education Resource Office
EUROGI: European Umbrella Organisation for Geographic Information
EuroSDR: European Spatial Data Research
FOSS: Free and Open Source Software
FOSS4G: Free and Open Source Software For Geospatial
GCP: Ground Control Point
GloFAS: Global Flood Awareness System
GNSS: Global Navigational Satellite System
GPS: Global Positioning System
GPX: GPS Exchange Format
GRASPgfs: Geospatial Resource for Agricultural Species and Pests and Pathogens with workflow integrated modeling to support Global Food Security
HOT: Humanitarian OpenStreetMap Team
HPC: high-performance computing
ICA: International Cartographic Association
ICSU-WDS: International Council for Science – World Data System
INSPIRE: Infrastructure for Spatial Information in Europe
13. Scholarships for students and staff

- The GeoTech Center is pleased to announce the 2018 Undergraduate Geospatial Technology Skills Competition! The intent of the competition is to showcase the geospatial technology skills of U.S. undergraduate students. Competing students will create a project that utilizes geospatial technology to address a real-world problem. The student will then present the project and the resulting deliverables as a Poster that not only highlights
their use of geospatial technology, but also demonstrates their communication and presentation skills.

The competition is software neutral.

Applicants must meet all of the requirements below to qualify for the competition (questions regarding eligibility can be directed to either Tom Mueller (Mueller@calu.edu):

- Applicants must be the age of 18 or older;
- Applicants must be enrolled during the Spring 2018 term in a geospatial technology course (e.g., geographic information systems, remote sensing, GPS/GNSS, etc.) or geospatial technology program at an accredited 2-year or 4-year U.S. institution (undergraduate status);
- Applicants must reside in the U.S.;
- All work and cartographic output must be the original work of the applicant;
- Only one entry allowed per student; and
- Only individual student submissions allowed (no group projects).

The winners will be awarded registration, travel and accommodations to the 2018 GeoEd Conference in Louisville, Kentucky. The winners will also present their posters at this conference.

Applications due April 20th at 1pm eastern.

You are highly encouraged to visit the website of the competition and get more information.

- The UOC Research and Innovation Committee would like to inform you that has agreed to publish a call for applications for four places for three-year postdoctoral research fellowships. The positions are open to postdoctoral teaching and research staff in any of the fields of study at the University and the Internet Interdisciplinary Institute (IN3). The deadline for applications, as indicated in the terms and conditions, is 4 March. The decision regarding this call will be made public on or after 2 April. If you have queries do not hesitate to contact us through preaward_osrt@uoc.edu.

17. Ideas / Information

1. To post your FOSS4G educational information go to http://www.osgeo.org/education. There you can find more educational activities posted by members of our community.

2. University Days of gvSIG (in Spanish). gvSIG team started this year 2017 celebrating one day events in different universities. In 2018 we want to extend this practice and make gvSIG known more and more in the academic world. This type of conference consists of a series of activities to celebrate in 1 day (or half day, depending on the case). Introductory presentations to the gvSIG suite and exhibition of use cases that may interest the audience, complemented by workshops for users and developers, both for general use and applied to different topics (geostatistics, urbanism, criminology, etc.). In some cases, the audience has been merely university, and in others the option of assistance from the general public has been opened. The options are many, and they adapt to each of these 'gvSIG University Days.'

If you would like your university to have its gvSIG day ...

... get in touch with the gvSIG team at: info@gvsig.com

3. You can find Map and GIS related competitions listed in order of the competition deadline at https://www.gislounge.com/gis-and-map-contests-roundup

4. Call for papers in Revista Cartográfica from Instituto Panamericano de Geografía e Historia (IPGH). This will be its number 97 and the issue will be entitled: “Avances, tendencias y perspectivas de la Información Geográfica”, (Advances, tendencies and perspectives from the geographic information). Please send your article(s) before April, 18, 2018. They accept articles in Spanish, Portuguese and English.