Volume 3, No. 6 June 2017

GeoForAll

Monthly Newsletter

Be part of "Geo for All"

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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. (http://www.meetup.com/OttawaOSGeo/).

- Currently, nearly 800 million people struggle with debilitating hunger and malnutrition and can be found in every corner of the globe. That's one in every nine people, with the majority being women and children. The Global Open Data for Agriculture and Nutrition (GODAN) [https://www.nottingham.ac.uk/genius/documents/godan-uon-intro.pdf] supports the proactive sharing of open data to make information about agriculture and nutrition available, accessible and usable to deal with the urgent challenge of ensuring world food security. A core principle behind GODAN is that a solution to Zero Hunger lies within existing, but often unavailable, agriculture and nutrition data.

  The Netherlands Ministry of Economic Affairs, CABI, GODAN, CTA and Wageningen UR partnered to organise the 3rd Workshop on Creating Impacts with Open Data in Agriculture and Nutrition [https://www.nottingham.ac.uk/genius/documents/godan-uon-intro.pdf]. The workshop was hosted at the Ministry of Economic Affairs in the Hague in February, 13-15. Suchith Anand kindly shares the ideas that he presented for the GODAN Capacity Development WG [http://www.godan.info/working-groups/capacity-development] at the Hague meeting.

  Details at https://www.slideshare.net/SuchithAnand/godan-working-group-on-capacity-development

  Anyone interested to join the GODAN WG on Capacity Development and contribute to education and training on Open Data in food and agricultural sciences is welcome. This is open and free to all interested. Join at https://dgroups.org/fao/godan_cd

- The first Irish OSGeo Local Chapter Symposium in Limerick, Ireland, took place on May, 26, 2017 with great success.

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Editorial Board

Please refer to the appropriate person according to the following table:

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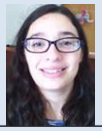
Co-editor 	Emma Strong, GIS Coordinator with Southern Mississippi Planning and Development District eestrong118@gmail.com	North and Central America
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GeoForAll Regional Chairs and Contact Information

North America Region

Chairs: Helena Mitasova (USA), Charles Schweik (USA), Phillip Davis (USA) Subscribe at mail list http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-northamerica

Email: na.gfa.chair@osgeo.org

South America Region

Chairs: Sergio Acosta y Lara (Uruguay) and Silvana Camboim (Brazil) Subscribe at mail list http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-southamerica

Email: sa.gfa.chair@osgeo.org

Africa Region

Chairs: Rania Elsayed Ibrahim (Egypt), Serena Coetzee (South Africa) and Bridget Fleming (South Africa) Subscribe at mail list http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-africa

Email: africa.gfa.chair@osgeo.org

Asia Region (including Australia)

Chairs: Tuong Thuy Vu (Malaysia/Vietnam) and Venkatesh Raghavan (Japan/India) Subscribe at maillist http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-asiaaustralia

Email: asia.gfa.chair@osgeo.org

Europe Region

Chairs: Maria Brovelli (Italy) and Peter Mooney (Ireland) Subscribe at mail list http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-europe

Email: eu.gfa.chair@osgeo.org

GeoForAll Themes

- **OpenCity Smart**
  - Chairs: Chris Pettit (Australia), Patrick Hogan (USA)
  - Mail list: http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-urbanscience
  - Website: http://wiki.osgeo.org/wiki/Opencitysmart
- **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
- **GeoForAll (GeoParaTodos) Themes in Spanish**
  - Chairs: Sergio Acosta y Lara (Uruguay), Antoni Pérez Navarro (Spain)
  - Mail list: Spanish : geoforall-spanish@lists.osgeo.org
  - Website: http://wiki.osgeo.org/wiki/GeoForAll_Spanish
- **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/Geocrowdsourcing_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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With 65 registrations, 1 keynote, 12 lightning talks, 3 workshops, and lots and lots of OSGeo discussion, education, and networking, it left a big promise for the next Symposium next year.

- A Memorandum of Understanding (MOU) was entered into on 10 day of May 2017, by the Open Source Geospatial Foundation, "OSGeo," and the Association of Geographic Information Laboratories in Europe, "AGILE."

1. OSGeo and AGILE agree to cooperate in the following activities, which are to their mutual benefit:
a. Disseminate information, news, and opportunities for each organization to members of the other, using standardised and previously agreed-upon processes and methods;
b. Exchange information related to educational initiatives in order to:
   i. encourage the development and distribution of open access educational resources, curricula, and other materials built using OS tools and services;
   ii. collaborate to develop an online educational material repository and a system to encourage faculty to contribute to that repository;
   iii. utilize and contribute to the GeoForAll network;
c. Develop a cooperative research agenda for open source geospatial science that:
   i. Identifies priority areas and opportunities for open source geospatial research;
   ii. Supports joint proposals between AGILE and OSGeo institutions;
d. Utilize the webinar platform to develop, share, and exchange ideas and information;
e. Refer to this MOU in the promotional and communication materials of each organization, such as their websites;
f. Exchange designated official representatives to the principal annual meeting of each organization. Registration fees for one official representatives will be waived;
g. Any other activity agreed by the governing bodies of both organizations.

2. This MOU applies to AGILE and OSGeo as organizations in their entirety. It does not provide any individual members of AGILE or OSGeo membership rights in the other (e.g., voting rights or special membership rates at its activities, other than the designated complimentary exchange of official representatives).

3. This MOU between AGILE and OSGeo will be reviewed every two years by the governing bodies of both organizations before being formally renewed, with the understanding that it may be terminated by either organization by providing sixty (60) days' advance written notice to the other. In the absence of a biennial review by both bodies, it will be assumed that this MOU has lapsed.

These are photos from the signing of the agreement:

2. A) Lab of the Month

A World Bridge

By Suchith Anand

Suchith Anand,
Nottingham Geospatial Institute, University of Nottingham, UK

Dear Geo4All Colleagues,

As I started on this "Lab of the month" series for the Geo for All newsletter, I myself started learning more and more about the excellent work that our amazing colleagues globally have been doing. This month, I am pleased to share the excellent work of A World Bridge who are involved in International Real-time, Real-world Collaborative Projects by Trillium Learning. A World Bridge is an international award-winning program for learning 21st Century Skills, using advanced teaching methods that incorporate real-world projects involving industry and government partners. A World Bridge continually advances educational models for international leadership, economic development, and educational research. These dynamic projects involve the design and implementation of Real-world, Real-time Project-Based Learning into the curriculum. Students develop professional skills while working on locally-oriented projects that have relevance to the larger global community, such as urban management and sustainable resources. Details at http://aworldbridge.com

Picture courtesy of Trillium Learning

I was particularly impressed by their work with students through NASA Europa Challenge. Alaska's A World Bridge program in Kodiak won back-to-back NASA Europa - International Grand Challenges the past two years, competing against the world's "Best and the Brightest" to generate solutions to societal issues that will benefit both the local and world communities. The competition includes top universities and commercial organizations – the 2015 Alaskan team represented the first high school to be involved in the competition. The Earthquake Signal Precursors (ESP) project (aka Global Earthquake Forecast System) is a revolutionary initiative that will advance the field of earthquake science using a dynamic monitoring system of earthquake precursor signals that have the potential to forecast imminent seismic activity. ESP can serve as a cornerstone to inform the community for the increasing risk of an earthquake. The current work monitors the Earth's magnetic field for anomalies. These anomalies have been consistently shown to shortly precede actual seismic events by several hours to a few days.

The students are also working on the NASA OpenCitySmart global initiative, which challenges "the world's best and brightest" to find solutions for creating sustainable communities. They are looking for renewable energy solutions and the development of shared energy grids suitable for Arctic conditions.

Members of the Kodiak Team working on their project (picture courtesy of Trillium Learning)

Students are also working on building new types of greenhouse systems that can withstand extremely cold temperatures, technology that could have enormous impact on agriculture in the Arctic. This is a great example of accelerating academic performance for students in STEM to greatly enhance the quality of our next generation of scientists, technologists, engineers, and mathematicians. See more details at http://www.gettingsmart.com/2017/03/building-world-bridge-college-career-life-readiness/

http://www.arctic.gci.com/blog/2017/1/31/kodiak-students-team-with-scientists-to-impact-arctic-the-world

We thank Ron Fortunato who is a pioneer and innovator in the development and implementation of educational technology. He is one of the original five Christa McAuliffe Educators in the USA selected by the National Foundation for the Improvement of Education, and a NASA Space Ambassador for the United States. His understanding of teaching and learning processes, real world project-based learning, and program implementation enable him to design and produce effective learning environments.

Thank you Ron and the A World Bridge Team for making it possible. It is important that we can share these amazing ideas with all so that it keeps building more synergies. We are a global community, and it is this global perspective which gives us strength. It is important that we highlight and share ideas from colleagues in different parts of our home planet.

Best wishes,

Suchith Anand

B) GeoAmbassador of the Month

Patrick Hogan

By Suchith Anand
Nottingham Geospatial Institute, University of Nottingham, UK

It is my great pleasure to introduce our colleague Patrick Hogan (NASA) as our GeoAmbassador.of the month.

Patrick Hogan began his U.S. Government career with the Environmental Protection Agency in 1990, and then joined NASA a year later as their senior environmental geologist at Ames Research Center. In 2002 Patrick was asked to lead the NASA Learning Technologies program. This is where NASA World Wind was born, the world's first open source virtual

globe program. In 2009 World Wind received the prestigious NASA Software of the Year award. There are versions of World Wind in Java, Android, and for the Web in JavaScript. NASA has a motto, 'for the benefit of all.' In this spirit, NASA World Wind helps the world advance innovative solutions for spatial data in the realm of free and open source software, as well as proprietary. In recognition of this work, Patrick was awarded the NASA Exceptional Achievement Medal.

Patrick graduated in 1985 with a Masters in Earth Science and a teaching credential and worked as a High School science teacher for a couple years,/

and then, as a licensed Professional Geologist and Registered Environmental Assessor, did geo-tech subsurface cleanup work for major refineries and the mining industry. Patrick is a former commercial deep sea diver and pilot, as well as a big fan of the Italian Renaissance.

We are especially grateful for Patrick's efforts in creating the NASA Europa Challenge initiative which adds great momentum to our efforts to promote openness in education and research worldwide. Now in its fifth edition, the aim of this challenge is to inspire ideas for building great applications that serve the INSPIRE Directive and uses NASA's open source virtual globe technology World Wind. This NASA challenge attracts the best minds to develop their ideas covering a broad range of domains from transportation to air quality to linked data. The previous competition winners' work is available at

- http://eurochallenge.como.polimi.it/projects2013
- http://eurochallenge.como.polimi.it/projects2014
- http://eurochallenge.como.polimi.it/projects2015
- http://eurochallenge.como.polimi.it/projects2016

The Europa Challenge has always had Europe's INSPIRE Directive to guide project development. This year we continue to have INSPIRE guide us and, more specifically, we are looking for solutions to urban management. The CitySmart Europa Challenge is challenging the world's *best and brightest* to deliver sustainable solutions serving city needs.

Almost every city needs the same data management tools as every other city. How can we help cities work together to be more sustainable, more livable, and more resilient? If cities were able to share their solutions with each other, this would multiply their investment by the number of cities participating. Each city could develop different functionalities and then 'share' these with each other, massively increasing our planet's collective productivity. This challenge is open to all on our home planet. Students and SMEs are welcome to join the competition this year.

This year's Europa Challenge is an excellent opportunity for the global community to begin working in collaboration and prepare for the increasing climate change scenarios in cities context. Students are our future, and looking at previous year's contributions from Global Earthquake forecasts systems (developed by some high school students from Alaska who went on to win the first prize in 2015 and 2016!) to Urban Traffic Visual Analytics Simulator, it just shows the amazing contributions of these students and SMEs made for the global good and for the benefit of all.

Details at http://eurochallenge.como.polimi.it/ and overview video at https://youtu.be/OQEzJrEDmEI

Those interested in being part of this global enterprise, please subscribe here http://lists.osgeo.org/cgi-bin/mailman/listinfo/opencitysmart . Your participation is very welcome.

We look forward to your strong participation for the **NASA CitySmart Challenge 2017** and joining our mission to make geospatial education and opportunities available for all.

Geo for All is a worldwide movement that provides immediate benefit to the world. We aim to create openness in Geo Education for developing creative and open minds in students which is critical for building open innovation and contributes to building up Open Knowledge for the benefit of the whole society and for our future generations. We are proud to honor Patrick as our GeoAmbassador, and we are extremely grateful for his contributions to Geo for All.

I am grateful for this opportunity of introducing some of our amazing colleagues from different parts of our world each month as our GeoAmbassadors and get

inspired by their amazing work and contributions for the wider community.

Best wishes
Suchith Anand

3. Events

- We are pleased to announce the launch of the SMARTIES Entrepreneurship competition [1],[2] through the NASA Europa Challenge 2017 [3],[4]. SMARTIES will provide 5000 GBP for awards (£2500 for First Place, £1500 for the Second Place and £1000 for the Third Place). Due to the nature of the funding, the SMARTIES Entrepreneurship, awards are specific to all UK and India students who participate in the NASA Europa Challenge 2017. This is a contest where everyone wins just by playing! Help your city and thereby the cities of the world with capabilities all cities need. We are in this world together, let's deliver results 'for the benefit of all', the NASA motto.

  Please share the competition link to your contacts and students at

  http://opensourcegeospatial.icaci.org/2017/03/smarties-entrepreneurship-competition-nasa-europa-challenge-2017/

  Details at http://eurochallenge.como.polimi.it/ and overview video at https://youtu.be/OQEzJrEDmEI

  [1]http://opensourcegeospatial.icaci.org/2016/11/smarties-are-part-of-the-uk-prime-ministers-ministerial-delegation-to-india-for-the-tech-summit-2016/

  [2]http://opensourcegeospatial.icaci.org/2016/11/reflections-from-uk-india-joint-network-on-sustainable-cities-and-urbanisation-in-india-city-level-workshop-on-chennai-urban-observatory-9th-10th-nov-2016-chennai-india/

  [3]https://www.youtube.com/watch?v=aWuMfMMPfPw

  [4] https://www.devex.com/news/how-nasa-and-the-un-are-using-location-intelligence-to-build-smart-cities-in-developing-countries-89721

- The Twentieth Session of the United Nations Commission on Science and Technology for Development was held from 08 – 12 May 2017, Palais des Nations, Geneva, Switzerland. Suchith Anand feels thankful for the opportunity to present his inputs to the esteemed members of the UN Commission on Science and Technology for Development.

  His presentation recording can be found at:

  https://conf.unog.ch/digitalrecordings/index.html?guid=public/31.0050/763B439D-5D07-4593-B280-C2BE3355C0C9_15h11&position=4524

  The slides of his presentation can be found at:

  https://www.slideshare.net/SuchithAnand/the-role-of-science-technology-and-innovation-in-ensuring-food-security-by-2030

  More information at http://opensourcegeospatial.icaci.org/2017/05/the-twentieth-session-of-the-united-nations-commission-on-science-and-technology-for-development/

  Open data and open principles in science and education are key for ensuring food security by 2030. It is now for us to make use of it, for the benefit of all. Let us work together to eradicate extreme poverty and enable shared prosperity for all. Thank you.

- English webinars in gvSIG Festival

  Four gvSIG webinars were given for the English speaking participants in May. The full programme was posted in https://blog.gvsig.org/2017/05/15/english-webinars-in-gvsig-festival/ . For more information please contact Sergio Acosta Y Lara (sergio.acostaylara@mtop.gub.uy)

  For a quick taste …

  a) Learning gvSIG in 30 minutes. Tuesday, 16 May: https://app.webinarjam.net/register/24718/83c72854c4

b) Spatial tools for evaluating woody debris flooding hazard in gvSIG. Tuesday, 16 May: https://app.webinarjam.net/register/24718/d56e44a1eb

c) Digital field mapping with Geopaparazzi and gvSIG. Wednesday, 17 May: https://app.webinarjam.net/register/24718/f0cb5535b9

d) Geostatistics: Integration of R in gvSIG. Wednesday, 17 May: https://app.webinarjam.net/register/24718/dfc43e593a

4. Conferences

Asia

September 2017

1. 18-22 September: WebMGS 2017 (during the ISPRS Geospatial Week).
Venue: Wuhan, China.

Africa

June 2017

2. 25 June- 1 July FOSS4G 2017 Africa 2017

The OSGeo Africa chapter and the QGIS South Africa User Group Conference invite you to participate and present at the first regional FOSS4G event in Africa and the first national QGIS User Group Conference in South Africa.

Venue: St John's College, Johannesburg, South Africa

Important dates:

3. 27-30 June: OSS4G Southern Africa overlap with GeoforAll + SAGTA conference

Venue: Johannesburg, South Africa

Europe

June 2017

4. 1-2 June: Jornadas SIG Libre. XI days of free GIS in Girona
Venue: Univerisyt of Girona, Spain.
"The GIS Free Conferences are a reference event in the area of free technologies in the field of geographic information. They are a meeting point where to share knowledge, experiences and create synergies between users and programmers. A space to show news and trends and reflect on debates that fit the context of free geospatial technologies."

5. 6-8 June: Geo IoT World 2017.
Venue: Brussels, Belgium).

July 2017

6. 4-7: GI_Forum Symbosium and Exhibit
Venue: University of Salzburg, Salzburg, Austria

7. 10-14 July: XVI Biennial IASC global conference Practicing the Commons
Venue: Utrecht, the Netherlands.

8. 18-22 July: FOSS4G Europe 2017
Venue: Paris, France.
FOSS4G-Europe 2017 will be held in Marne-la-Vallée , France on July 18th-22nd 2017. The third edition of the conference is organized at École Nationale des Sciences Géographiques (ENSG). Our event aims at bringing Open Source GIS users and developers together and fostering closer interactions amongst the European geospatial communities. Following an established tradition, FOSS4G-Europe organizes an academic track which will run as a single-track over one day. FOSS4G-Europe invites original research contributions scientific papers dealing with Open Data, Open Software, Open Hardware, and Open Science in general are highly welcome. Submissions focusing on INSPIRE, Big Data, and Societal Challenges are particularly encouraged. All types of papers are welcome, such as on results achieved, case studies, work in progress, and demos. We discourage, however, mere presentations of technology or use cases without properly justification.
Conference: July 19, 2017
Details at
http://europe.foss4g.org/2017/Academic_Track

September 2017

9. 6-8 September: INSPIRE Conference 2017
Venue: Strasbourg, France

10. 7-8 September: 2nd Geoprogress Global Forum. International Conference on Sustainability and Energy Issues
Venue: Brussels
For more information write to: info@geoprogress.eu

11. 25-28 September: Third Earth Observation Open Science community consultation
Venue: ESRIN (Frascati, Rome, Italy)
Abstract: at http://eoopenscience.esa.int/ before 15.05.2017.

November 2017

12. 28-30 November. BiDS'17
Venue: Centre de Congrès Pierre Baudis, Toulouse, Fran
Abstract deadline: July, 31

North and Central America and the Caribbean

July 2017

13. 1-2 July: pre-Conference workshop with the ICA Commission on SDI and Standards.
Venue: George Washington University in DC

14. 2-7 July: 28th International Cartographic Conference (ICC) of the International Cartographic Association.

Washington, DC, USA

More details in Section 17 "Ideas/Information" about the event "Different Fields - One Cartography" organized within the activities before the 28th International Cartographic Conference of the International Cartographic Association (ICA).

August 2017

15. 14-19 August: FOSS4G Boston.
Boston, Massachusetts, USA.

September 2017

16. 14-15: HOT Humanitarian OpenStreetMap Team Summit 2017
Venue: Ottawa ON, Canada.
More details soon.

17. 26-30 September: VIII Surveying Convention "AGRIMENSURA 2017"
Venue: Havana Libre Tryp Hotel, Havana. Cuba.

October 2017

18. 4-6 October: 2nd International Conference on Smart Data and Smart Cities
Venue: Puebla, Mexico.

For a pdf in English please write to Sergio Acosta Y Lara (sergio.acostaylara@mtop.gub.uy)

5. Webinars

- Members from SIGTE (The GIS and Remote Sensing Service of the University of Girona, Spain) organize the GIS cloud seminar with some open source tools.

It will take place between 8th May and 19th June.
The tutor will be Jorge Sanz, from OSGeo. Details at http://www.unigis.es/cursos-de-especializacion-sig/gis-cloud/ (in Spanish)

- Date: 06/09/2017

Title: Coastal and Marine Surveillance with UAS
Registration URL: https://attendee.gotowebinar.com/register/9180720161997415427
Webinar ID: 246-192-691

- Date: 06/23/2017

Title: Mapping the Great Lakes Coastal and Nearshore Realm: NOAA's Lake Level Viewer
Registration URL: https://attendee.gotowebinar.com/register/4961449843523329795
Webinar ID: 246-192-691

7. Training programs

- GeoForAll educational inventory system, a place to search and share educational materials

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

- The GeoServer team are happy to announce the release of GeoServer 2.10.3 the latest maintenance release. All versions can be downloaded from https://sourceforge.net/projects/geoserver/files/GeoServer/2.10.3/ See the blog post (http://blog.geoserver.org/2017/04/24/geoserver-2-10-3-released/) for full details of the release.
- Download the OSGeo-Live 10.5 image at http://live.osgeo.org/en/download.html

If you would like to comment and participate in the OSGeo-Live 11.0 planning process, please see the information provided below from Astrid Emde
http://wiki.osgeo.org/wiki/User:Astrid_Emde
For our next OSGeo-Live release, 11.0, we propose to reduce the number of packages included, and only support a 64 bit distribution, (32 bit will be built but not tested or officially supported).

Factors leading to this suggestion include:

1. Some projects have dwindling communities and momentum.
2. Increased OSGeo-Live scope has increased our core maintenance and testing.
3. Reduced engagement from projects (partly due to less core time spent reaching out to projects)
4. Missing our first release milestone in 9 years.

From our options of reduce quality, become more efficient, increase volunteer engagement, find a sponsor to support core activities, and reduce scope, reducing scope is our most viable and acceptable option.
Other ideas are welcomed.

Questions we will ask in assessing which projects to keep include:

1. Is there an ACTIVE OSGeo-Live liaison person/people for the project?

Prior list is copied to "Contact" column at:
https://docs.google.com/spreadsheets/d/1Q5BaEgQtgw4O1bXyeWMlM8XtAOhUgcjZ7Y2O0FZc2H0/edit?hl=en_GB#gid=2014800150

2. Has the Project Overview and Quickstart been reviewed and are they current and complete?
3. Do OpenHub metrics reflect an active and healthy community:
https://live.osgeo.org/en/metrics.html
4. Is the project being updated on OSGeo-Live with each release?

- GRASS GIS 7.2.1 is available. It provides more than 150 stability fixes and manual improvements compared to the first stable release version 7.2.0. An overview of new features in this release series is available at New Features in GRASS GIS 7.2 (https://trac.osgeo.org/grass/wiki/Grass7/NewFeatures72) and more information about the release as well as the download links are available here: https://grass.osgeo.org/news/67/56/GRASS-GIS-7-2-1-released/

- MapServer 7.0.5, a maintenance release, is now available for download here: http://mapserver.org/download.html

11. Free Books, educational materials, etc.

- New free book in Spanish about dealing with satellite images and how to orto-rectificate them. http://www.tysmagazine.com/ortorrectificacion-imagenes-satelitales-landsat/
- Another free book in Spanish. The book exposes examples of the vast potential of geoinformatics, to generate data that allow to transform the

environmental and social reality from the trenches of classrooms and university work.
http://www.tysmagazine.com/libro-gratuito-geoinformatica-aplicada-procesos-geoambientales/

- A new free book in spanish, from Elia Quirós (University of Extremadura)
http://www.tysmagazine.com/introducccion-la-fotogrametria-cartografia-aplicadas-la-ingenieria-civil/
The main part of the text focuses on digital photogrammetry and once again emphasizing its simplicity, it tries to explain, from the professional experience, the whole work process, from the moment a photogrammetric flight is ordered, until the digital cartography arrives at the hands of an engineer to work on it, with its accuracy and precision.
- New free book in Spanish about how to create maps, how to construct them, importance of symbols, parts of a map, etc.
http://www.tysmagazine.com/libro-gratuito-metodos-tecnicas-la-cartografia-tematica/
- Free book in Spanish with exercises in environment management
http://www.tysmagazine.com/libro-gratuito-aprendiendo-manejar-los-sig-en-la-gestion-ambiental-ejercicios/
- A new free book in Spanish about invisible maps:
http://www.tysmagazine.com/conoces-los-mapas-invisibles-descubrelos-en-este-libro/
- Quick Guide to Free Geoinformatics for Disaster Management
https://www.rgs.org/NR/rdonlyres/0FF78DDB-4369-486C-99C6-69797B69662C/0/LeidigandTeeuw2016QuickGuidetoFreeGeoinformaticsforDisasterManagementv23.pdf
- A new free tutorial in Spanish about QGIS 2.18
http://www.tysmagazine.com/tutorial-qgis-2-18/
- New Free ebook about how to download spatial data (in Portuguese):
http://conteudo.geoeduc.com/baixar-dados-geograficos?utm_campaign=jornada-sig-email2&utm_medium=email&utm_source=RD+Station

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

BIM: Building Information Modelling

CAADP: Comprehensive African Agricultural Development Programme

CAD: Computer Aided Design

CaGIS: Cartograhy 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

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

ISPRS: International Society for Photogrammetry and Remote Sensing

JAXA: Japan Aerospace Exploration Agency

KML: Keyhole Markup Language

LiDARL: Light Detection and Ranging

LOC: Local Organizing Committee

LOD: Level Of Detail

MIL: Media and Information Literacy

MoU: Memorandum of Understanding

NAD: North American Datum

NCSA: National Center for Supercomputing Applications

NED: National Elevation Dataset

NEPAD: NEw Partnership for African Development

NGA: National Geospatial Intelligence Agency

NHD: National Hydrologic Dataset

NLCD: National Land Cover Dataset

NSDI: National Spatial Data Infrastructure

NSF: National Science Foundation

OER: Open Educational Resources

OGC: Open Geospatial Consortium

OSGeo: Open Source Geospatial Foundation

OSM: OpenStreetMap

RCMRD: Regional Centre for Mapping of Resources for Development

ROSHYDROMET: Russian Federal Service for Hydrometeorologyand Enviromental Monitoring

RUFORUM: Regional Universities Forum for capacity building in agriculture

SaaS: Software as a Service

SDI: Spatial Data Infrastructure

SIGTE: The GIS and Remote Sensing Service of the University of Girona, Spain

SQL: Structured Query Language

STISA 2024: Science Technology Innovation Strategy for Africa

STSM: Short Term Scientific Missions

TIN: Triangulated Irregular Network

UAV: Unmanned Aerial Vehicle

USGS: U.S. Geological Survey

USGIF: United States Geospatial Intelligence Foundation

VGI: Volunteered Geographic Information

XSEDE: Extreme Science and Engineering Discovery Environment

WCS: Web Coverage Service

WFS: Web Feature Service

WGCapD: Working Group on Capacity Building and Data Democracy

WGS: World Geodetic System

WISERD: Wales Institute of Social & Economic Research, Data & Methods

WMO: World Meteorological Organization

WMS: Web Map Service

WMTS: Web Map Tles Servises

WPS: Web Processing Service

Short Report from the UN Open GIS Initiative Meeting in Brindisi, Italy, April 2017.

By Maria Antonia Brovelli and Diego Gonzalez Ferreiro
Chairs Spiral 2

The UN Open GIS Initiative [1] is to identify and develop, under UN guidance, an Open Source GIS bundle that meets the requirements of UN operations, taking full advantage of the expertise of mission partners (partner nations, technology contributing countries, international organizations, academia, NGO's, private sector).
The Initiative, started in March 2016, is organized in four working groups, called "spirals:" spiral one is related to design and implementation of the geoportal; spiral two is about Capacity Building; spiral Three and Four are respectively about geospatial analysis and data collection.
After a year of the activity, the updates are as follows.
Main elements of interest by OSGeo UN Committee and GeoForAll:

- Spiral 1 (WG1): the UN Open GIS Initiative GeoPortal. The Platform is based on Geoshape-Exchange, developed by Boundless and supported by US DoD.
- Spiral 2 (WG2): capacity building for UN staff members on open source geospatial technologies. The initiative is supported by volunteer activity of OSGeo and GeoForAll members. QGIS (concluded) and PostGIS (in progress) have been taught by using as educational platform that of Politecnico di Milano.
- Spiral 3 (WG3): geospatial analysis. More than 140 new geospatial functions for Web and Desktop available at [2]. Those pieces of software were made available by OpenGDS (South Korea). Educational material will be provided soon. The original material is available in Korean. It will be translated in English but some help in cleaning it by English native speakers is more than welcome.
- Spiral 4 (WG4): tools for data collection. The Unmanned Aerial Vehicle (UAV) based Rapid Geospatial Solution is part of the WG activities and the software will be available soon. The development is part of the activity of OpenGDS (South Korea). Some South Korean companies are contributing to the development; among them Gaia3D, Inc.

[1] https://drive.google.com/file/d/0B3dBcNKACjRlcDZTa0JsNUlab0U/view?usp=sharing
[2] https://github.com/MapPlus/spatial_statistics_for_geotools_udig

UN Open GIS will be based on some existing open source geospatial software (packages and libraries) with many extensions specifically developed. The users of the platform will be the UN staff supporting with mapping and GIS the peacekeeping missions. Therefore, they are generally experts of this specific domain, even if they are currently using proprietary software. For that reason, with the help of volunteers of GeoForAll and by using the Educational Platform of Politecnico di Milano Beep, online courses were organized. The courses taught until now have been: QGIS Geo Academy with tutors Richards Smith, Youngok Kang, and Thomas Mueller; and Boundless PostGIS with tutors Mike Pumphrey, Ivana Ivanova, Gregory Giuliani, Paolo Corti, and Victoria Rautenbach.
The next courses will be GeoNode, Geoserver and OpenLayers. Tutors are welcome.

16. Web sites

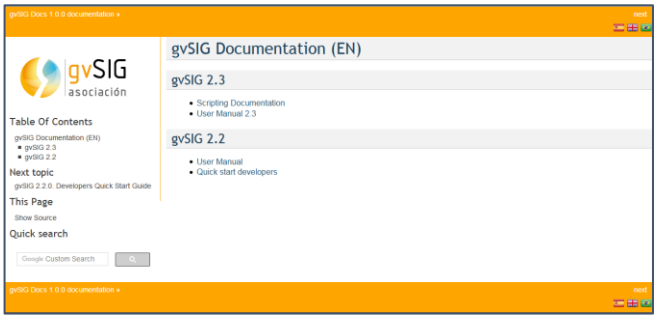
- New website and new documentation for users and developers in gvSIG

A new website for the gvSIG documentation has been announced. This website will contain all types of documentation, such as user manuals, developer guides for Scripting, for Java, workshops, and more. It will also contain other useful links like related pages with the project.

More details at

(English) https://blog.gvsig.org/2017/03/01/new-website-and-new-documentation-for-users-and-developers-in-gvsig/

(Spanish) https://blog.gvsig.org/2017/02/28/nueva-web-y-nueva-documentacion-para-usuarios-y-desarrolladores-en-gvsig/



17. Ideas / Information

1. There is a new YouTube channel where we will be posting the Geo4All webinar recordings and other related videos. Subscribe to it (click on red button on right hand side).
Check it out:
YouTube Channel
https://www.youtube.com/channel/UCL1E2akvCNWP_nC0p5CpB8g

2. The NASA World Wind Europa Challenge 2017 is off to a roaring start! (by Patrick Hogan)
http://nasaeuropachallenge.com/

The top six (6) teams will be invited, all expenses paid, travel and lodging for five days, that include the final three days to "show your stuff" 29-30-31 August.

This is in addition to the NASA Crystal Bull award, resume gold and some really cool cash. Not to mention cozy long-sleeve NASA shirts and NASA certificates just for qualifying.

Our world very quickly needs to find a way for us to begin working harmoniously, advancing each other's interest while serving our own. It will help if we are oriented to one platform for building "smart city" urban management solutions, ESA-NASA WebWorldWind [1].

ESA & NASA are jointly advancing WebWorldWind, the latest version of the NASA World Wind family, and the world's oldest virtual globe platform, open source since inception in 2002.

Your CitySmart web app, based on the ESA-NASA WebWorldWind virtual globe SDK, needs to be ready for the first round of judging 7 August. This gives you ten weeks to make something good happen. There are plenty of examples, all open source, from previous years [2] along with some NASA World Wind Research projects, all open source [3].

By 7 August you simply need a webpage that describes your web app, a three-minute video of your web app in action, and your open source code accessible, i.e., via github or other. The judges, an international panel of GIS experts, will decide which six teams get the all-expense paid trip, and you will get "the news" 5 days later. And then on August 29 the finals begin with YOU there in Helsinki!

One of the most livable cities in the world! [4]

[1] https://worldwind.arc.nasa.gov/

[2] http://eurochallenge.como.polimi.it/

[3] https://github.com/NASAWorldWindResearch

[4] https://www.helsinkismart.fi/helsinki-in-the-top-ten-most-liveable-cities-in-the-world/