



GeoForAll

Monthly Newsletter



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Be part of "Geo for All"

1. Activities of the Network

- [Ottawa, Ontario, OSGeo Meetup Group](http://www.meetup.com/OttawaOSGeo/) 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/>)



2. Lab of the Month

Department of Geoinformatics, Palacký University in Olomouc, Czech Republic

By Suchith Anand



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

Dear Geo4All Colleagues,

It is my great pleasure to introduce our colleagues at Department of Geoinformatics, Palacký University in Olomouc, Czech Republic, as our "GeoForAll" lab of the month. I thank Dr Rostislav Netek for providing all the background information and photos of the activities of the lab which is summarized in this article.

"The Department of Geoinformatics, Palacký University in Olomouc, Czech Republic, is a leading department in Czech Republic in fields of Cartography and Geoinformatics. It guarantees the bachelor study, the master study, and PhD study. They are the 100th member of GeoForAll. In research, their staff members focus their activity on geoinformatics topics, development and application of GIS, as well as free and open source solutions.



Editorial Board

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

Chief Editor 	<p>Nikos Lambrinos, Associate Professor, Dept. of Primary Education, Aristotle University of Thessaloniki, Greece. President of the Hellenic digital earth Centre of Excellence labrinos@eled.auth.gr</p>	Oceania
Co-editor 	<p>Rizwan Bulbul, Assistant Professor of GIScience Head of Geospatial Research and Education Lab Department of Space Science, Institute of Space Technology, Islamabad, Pakistan bulbul@grel.ist.edu.pk</p>	India, Sri Lanka, Pakistan, Afghanistan, Nepal, Burma, Iran, Iraq, Jordan, Syria, Israel, Lebanon, Turkey, Saudi Arabia, Oman, Yemen, United Arab Emirates, Kuwait and Islands of S. Pacific.
Co-editors 	<p>Pavel Kikin, Senior Lecturer "Department of applied informatics and IT", Siberian State University of Geosystems and Technologies Alexey Kolesnikov, Senior Lecturer "Department of cartography and GIS", Siberian State University of Geosystems and Technologies it-technologies@yandex.ru</p>	Russia, Mongolia, China, Japan, S. Korea, Vietnam, Thailand, Malaysia, Laos, Myanmar, Cambodia, Singapore, Brunei, Indonesia, Philippines, Turkmenistan, Uzbekistan, Tajikistan and Kyrgyzstan.
Co-editor 	<p>Rania Elsayed, Computers & Information Researcher, Division of Scientific Training & Continuous Studies, National Authority for Remote Sensing & Space Sciences, Cairo, Egypt. ranyaalsayed@gmail.com</p>	Africa
Co-editor 	<p>Elżbieta Wołoszyńska-Wiśniewska (Ela), Head of Education Unit UNEP/GRID-Warsaw Centre ela@gridw.pl</p>	Scandinavian countries, Denmark, Germany, Belgium, The Netherlands, Poland, Estonia, Latvia, Lithuania, Belarus, Ukraine, Czech Republic, Slovakia.
Co-editor 	<p>Antoni Perez Navaro, Associate Professor at Universitat Oberta de Catalunya (UOC) Computer Sciences and Multimedia Department aperezn@uoc.edu</p>	Portugal, Spain, France, U.K., Ireland, Iceland, Luxemburg, Italy, Switzerland, Austria, Hungary, The Balkans.
Co-editor 	<p>Emma Strong, GIS Coordinator with Southern Mississippi Planning and Development District eestrong118@gmail.com</p>	North and Central America
Co-editor 	<p>Sergio Acosta Y Lara, Departamento de Geomática Dirección, Nacional de Topografía, Ministerio de Transporte y Obras Públicas, URUGUAY sergio.acostaylara@mtop.gub.uy</p>	South America
Production Designer 	<p>Nikos Voudrillis, MSc, PhD in geography education. nvoudrillis@gmail.com</p>	Design and final formation of the newsletter



GeoForAll Regional Chairs and Contact Information

North America Region

Chairs: Helena Mitsova (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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The Department of Geoinformatics was founded in 2011. Nowadays, the Department of Geoinformatics is a separate academic department that offers high quality education and research. It is renowned both nationally and internationally. The main fields are geoinformatics and geoinformation technologies in education, research, and their promotion, both in the Czech Republic and abroad. Its activities encompass teaching in the field of geoinformatics with special emphasis on geographical aspects, research projects that follow international trends, and promotion of modern geoinformation technologies in all spheres of the Czech society. The Department owns two specialised laboratories for geoinformation systems and remote sensing and one research laboratory for the eye-tracking technique in cartography. It uses state-of-the-art equipment and software. Its teaching activities are accompanied by cooperation with prominent national commercial companies in the field as well as renowned foreign universities. The teachers do their best to react to the individual needs of students of bachelor, master, and doctoral programmes, enabling them to take part in research projects and work, gain experience in commercial companies, and excel in national specialised student contests.



The Department of Geoinformatics is a centre of education and research as well as popular activities in the field of geoinformatics and cartography on national and international scale



- Cartographical Days in Olomouc - A yearly event consisting of lectures by top experts in thematic cartography and selected fields of application organised by the Dept. of Geoinformatics in cooperation with cartographic, geographic, GIS&T, and other associations
- Olomouc Geoinformatics Colloquiums (OGiC) - Invited lectures by prominent foreign experts aimed at academics and the professional public that take part in the activities of the Department of Geoinformatics
- Cartographical conferences by the Cartographic Societies of the Czech and Slovak Republic
- GISday - A global educational event held on the third Wednesday of November each year that enables geographic information systems users and vendors to open doors of the Department to



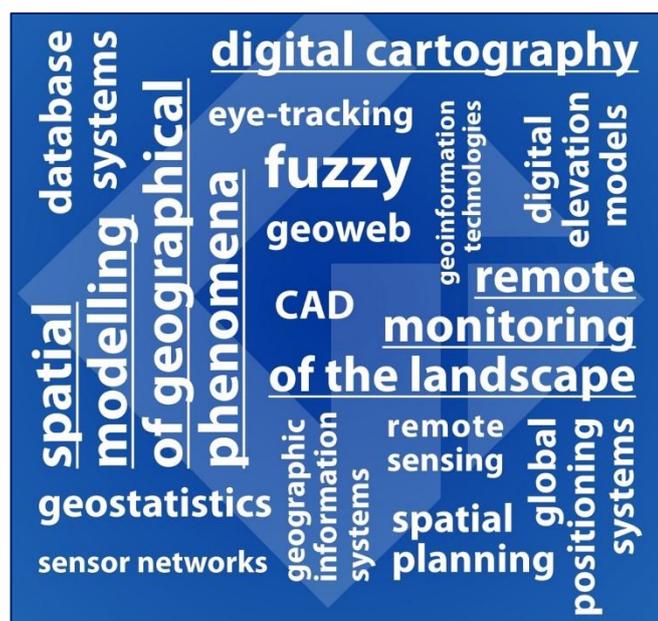
GeoForAll



schools, businesses, and the general public to showcase real-world applications of GIS

- An autumn Olomouc (Podzimni Olomouc) - A week of lectures and workshops made by external experts from both the academic and commercial community, especially focused on technologies, new solutions, etc.
- In February 2014, the CARTOCON Conference took place at their Department - the biggest carto conference in middle Europe ever, many prominent visitors from all over the world, four ICA commissions meetings, etc.
- FOSS4G.cz - Czech local (mini) conference for Free and Open source Software for Geoinformatics (foss4g) took place at their Department last week!

In research, the staff focus their activity on general geoinformatics topics, development and application of geographical information systems, remote sensing, data processing, thematic and digital cartography, landscape spatial modeling, spatial planning in GIS, etc. Currently, the Department's activities concentrate on these research fields: Spatial modeling of geographical phenomena in GIS, Digital cartography, Remote monitoring of landscape, (Open source) GI technologies.



The Department of Geoinformatics cooperates with a number of public institutions and private companies. The cooperation can have the form of a project, commissioned job, or student work. The longterm

partners are primarily the Czech Hydrometeorological Institute, the Czech Statistical Office, the Regional Authority of the Olomouc Region, the Olomouc Municipal Authority, the SmartGIS company, the Forest Management Institute and the Transport Research Centre, local representation of OSGeo Foundation, etc.



Every year, many of their students study abroad at universities all across Europe. There are many contractual partner universities as part of the ERASMUS and CEEPUS programme, e.g. the universities of Bochum, Vienna, Valencia, Salzburg, Belgrade, Krakow, Lublin, Trondheim, Sofia, Budapest, and other European cities. Similarly, their Department receives students and teachers from Poland, Hungary, Spain, and Serbia. Recently, they have been able to host Richard LeGates, Carsten Jürgens, László Zentai, Tamas Janczo, Maik Netzband, Ranka Stanković, Dagmara Kociuba, Branislav Bajat, Krzystov Kalamucki, Monika Michálková and Bela Markus, among others, who give lectures as part of the Olomouc Geoinformatics Colloquium (OGiC).



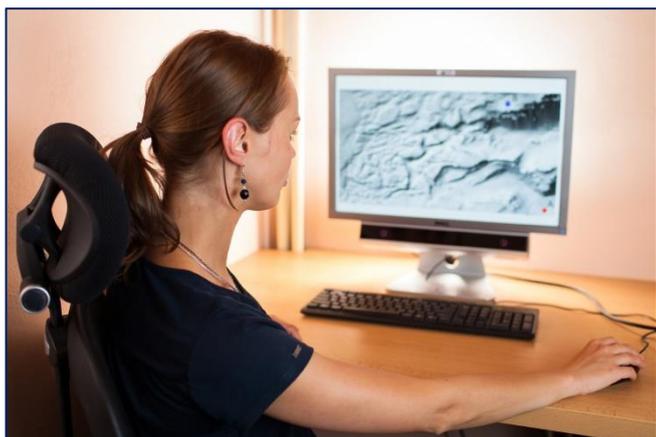
Especially Assoc. Prof. Vilem Pechanec and Dr. Rostislav Netek are deeply focused in their research



GeoForAll



into FOSS solutions and technologies. Both of their lectures and research benefit from many open source solutions - their server runs on Apache; webpages are powered by Wordpress; for GIT/GIS on server-side they use UMN Mapserver, Geoserver, PostgreSQL, PostGIS, SpatialLite. They also offer every academic year specialized courses such as Scripting in GIS (Python), GIS online and Web Cartography (Leaflet, OpenLayers, Geoserver), Statistics (R-project), Dynamic web (HTTP Apache, PHP), Freeware and Open Source (GDAL/OGR, FWTools, etc.). Most courses are supported by QGIS software and OSM datasources. Their staff are involved in membership or open source groups (OSGEO at the international level, GeoForAll, OSGEO/FOSS4G at the local level, FOSS expert group within Czech Association for Geoinformation, Open data activities).



Department of Geoinformatics is a collective member of the Czech Association for Geoinformation (<http://www.cagi.cz>), and they co-organise its events and participate in its development. The Department of Geoinformatics is one of the most important

bodies in the Czech Republic. Major cartographic activities in the Czech Republic (<http://www.czechmaps.cz>) include a competition that provides an organizational map of Children's Drawing Contest. It holds its annual Day of Cartography and in 2009 hosted the 18th cartographic conference. The Department of Geoinformatics works closely with the Czech Geographic Society (<http://www.geography.cz>) and is the seat of the Section of Cartography and GIS. The Department of Geoinformatics works closely with the Society for Photogrammetry and Remote Sensing (<http://www.sfdp.upol.cz>). The Department of Geoinformatics is actively involved in a number of international cartographic associations (<http://cartography.tuwien.ac.at/ica/>) and is represented in the Commission for National and Regional Atlases. The Department of Geoinformatics supports activities of the International Geographical Union (<http://www.igu-net.org>) and is represented in the Commission for Geographical Information Systems. The Department of Geoinformatics is in close contact with the Slovak Association for Geoinformatics (<http://www.sagi.sk>).

More details are at their web page at <http://www.geoinformatics.upol.cz> (English version currently under construction).

Brochure in English at

http://www.geoinformatics.upol.cz/wp-content/uploads/Geoinformatika_brozura_eng.pdf

<http://www.geoinformatics.upol.cz/katedra/clenstvi-a-partnerstvi/osgeo>

University in Olomouc welcomes collaborations from all interested. Please email Rostislav at ostislav.netek@upol.cz

We thank Rostislav and all colleagues and students at the Department of Geoinformatics, Palacký University in Olomouc, Czech Republic for their contributions to the GeoForAll initiative and look forward to working and building more collaborations with all interested on this education mission.

Happy GIS Day greetings to all.

Best wishes,
Suchith Anand



B) GeoAmbassador of the Month

Victoria Rautenbach

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

Dear colleagues,

It is my great pleasure to introduce Victoria Rautenbach from the Centre of Geoinformation Science (CGIS) at the University of Pretoria (UP) in South Africa as our GeoAmbassador of the Month. It is even more great pleasure to have another GeoAmbassador Dr. Serena Coetzee (the GeoForAll chair of Africa and who all of our colleagues will already know) who nominated Victoria for us. I have always been amazed and inspired by the work that Serena and colleagues have been doing in South Africa. I first met Serena at ICC Dresden in 2013 where she also presented her ideas at the ICA Commission meeting of Open Source Geospatial Technologies meeting. I have not yet had the opportunity to meet Victoria, but I am aware of her great work and contributions to Open Principles in Geo Education. I want to thank Serena for introducing to us a great colleague as our GeoAmbassador of the month and sending us all the details.



Victoria Rautenbach, Centre of Geoinformation Science (CGIS), University of Pretoria, South Africa

Victoria is an enthusiastic contributor to open source/open data/open education work at University of Pretoria. She uses open source software, such as QGIS, GeoServer and PostGIS, in the modules that she teaches and is the first port of call for open source software support for students. She engages students in open data events and has arranged a number of events to introduce geoinformatics to school children. Below are a few recent examples.

In 2014, Victoria helped to introduce the use of open source software in the final year project of geoinformatics students. Since 2015, the students have mapped the informal settlement called Alaska, in Mamelodi East, Pretoria (the name was given by locals because of its remoteness from the Pretoria city centre) for their project. After capturing data, such as dwelling numbers and tap distribution, various maps and 3D images were developed to show the current situation in the settlement. The data and maps assist local NGOs in the settlement with identifying and addressing symptoms of poverty, lack of security, and health concerns. This year, the students are improving the data and plan to add the footpaths to OpenStreetMap. A 2015 student blog describes their work and impressions here: <https://mamelodimappers.wordpress.com/>.



A dwelling in the Alaska informal settlement

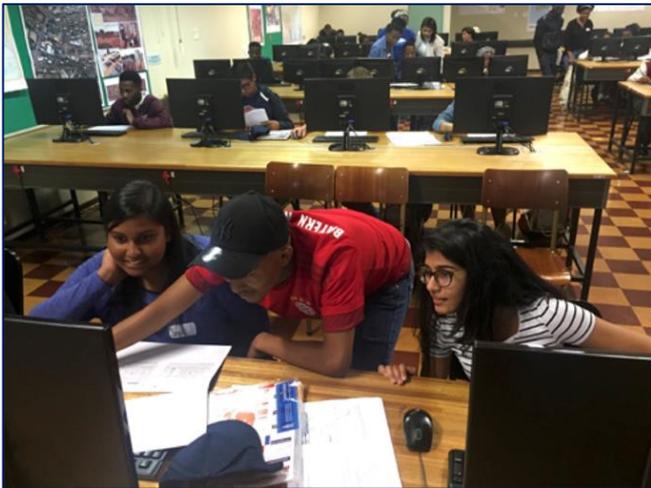


Third year students capturing data in the Alaska informal settlement

Victoria has also been involved in a number of student events to promote open data. The concept of an open data quest, started by SciBraai and Code4SA, is a South African initiative that encourages individuals from various backgrounds to discover and use South African data to find interesting stories and to create powerful visualizations. In October 2015, the National Data Liberation was hosted at the Innovation Hub by Code4SA, geekulcha, and Open

Data Durban. Victoria Rautenbach competed at the event together with two UP students, Tshepo Mahudu and Sean Cullen; another South African student, Nadia Oosthuizen (CSIR, Rhodes University); and Madi Hanekom, a private consultant. They participated as Team DataDevils. The team used the 2013-2014 national protest data to create a visualization of the impact of protests on three economic hubs in South Africa. The DataDevils team was awarded first prize for their visualization at the Pretoria event. In April 2016, CGIS hosted a DataQuest on open data from the South African National Treasury. The aim of the event was to encourage participants to develop innovative data visualisations, stories, and app ideas using this local municipal budget information. For example, one participant designed a visualisation to show government spending per student at each South African university.

In 2016, Victoria hosted three groups of school children on three different Saturdays. The aim of the events was to inspire school children to become passionate mappers through hands-on experience in a GIS lab. The first event was hosted for Grade 6 to 8 school children (12-14 years old) from the Leeuwenhof Academy. The event was part of the YouthMappers initiative and celebrated National Youth Day in South Africa. Fifty-five (55) children participated in two activities: 1) mapping a building on campus using ClassiCube (a free and easy-to-use substitute for Minecraft Classic, an early version of the popular game Minecraft); and 2) participating in a task of the Humanitarian OpenStreetMap Team (HOT) by mapping dwellings in Mozambique. This event ran concurrently with another YouthMappers event hosted by the Texas Tech University. During the two mapping events (i.e. at UP and Texas Tech), approximately 15,000 OpenStreetMap edits were made on this task (<http://goo.gl/gst7Vu>).



*School learners experiencing geoinformatics at UP,
August 2016*

In August and September 2016, learners from a number of schools were invited to spend a Saturday at UP to learn about geoinformatics. Most learners were from Mamelodi (close to UP), but a few had travelled from as far as Limpopo (approx. 300km) and KwaZulu-Natal (approx. 600km) to attend the event. Each day started with short talks by UP staff members, UP students, and professionals from the industry. The talks provided insight into the work of a geoinformatics professional. Subsequently, the learners collected data on campus during a scavenger hunt and used this data to create a map of the campus.



YouthMappers map-a-thon, October 2016

A YouthMappers map-a-thon in October 2016 contributed to the Peace Corps efforts in Botswana. The aim of this Humanitarian OpenStreetMap Team (HOT) task was to contribute to a better base map for 45 sites in Botswana. The group of mappers mapped buildings and roads that would ultimately support long-term development and HIV care projects in Botswana. The group used both OpenStreetMap and MapSwipe for the map-a-thon.

More information about CGIS activities can be found in the annual reports on the website at www.up.ac.za/cgis.

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.

I am truly inspired to know more details about the amazing work done by Victoria and colleagues at the University of Pretoria. We are proud to honour Victoria as our GeoAmbassador, and we are extremely grateful for her contributions to Geo for All.

Best wishes,
Suchith Anand



3. Events

- The University of North Carolina's Davis Library Research Hub is hosting GeoWek the week of November 15. Details can be seen at <http://library.unc.edu/services/data/GeoWeek/> which include a student map competition.

4. Conferences

Asia

November 2016

1. 28-30 November, 2016. 2nd International Conference on Remote Sensing Technologies and Applications (ICRSTA 2016). More details at <http://www.engii.org/ws2016/Home.aspx?ID=819>

January 2017

2. 22-25 January. Geospatial World Forum conference at Hyderabad, India
3. 26-29 January. FOSS4G-ASIA 2017 conference at IIIT-Hyderabad, India.. Details at <http://www.foss4g-asia.org/2017/>.

March 2017

4. 20-21 March: Global Forum for Innovations in Agriculture (GFIA)
Deadline August 31st. Abu Dhabi National Exhibition Centre, UAE. More details [here](#)

Oceania

November 2016

5. 28 November-December 1st: 2016 Pacific Islands GIS/RS User Conference.

Europe

November 2016

6. November 30th to December 2nd: "Know the territory. Manage the reality".
12th International gvSIG Conference:
<http://www.gvsig.com/es/eventos/jornadas-gvsig/12as-jornadas-gvsig>

Venue: School of Engineering in Geodesy, Cartography and Surveying (Polytechnic University of Valencia), Valencia, Spain

March 2017

7. 21 March: 1st International Workshop on Big Geo Data Quality and Privacy (BIGQP 2017)
Venue: Venice, Italy
<http://www-etis.ensea.fr/BigGeoQ-UP/BIGQP2017>

8. 21-24 March: EDBT/ICDT Joint Conference
Venue: Venice, Italy
<http://edbticdt2017.unive.it/>

IMPORTANT DATES

Paper submission: November 14, 2016
Notification of acceptance: December 20, 2016
Camera-ready version: January 14, 2016

July 2017

9. 10-14 July: XVI Biennial IASC [global conference](#)
Practicing the Commons

Venue: Utrecht, the Netherlands.

North and Central America and the Caribbean

February 2017

10. 22-24 February: [North Carolina GIS Conference](#)
Raleigh, North Carolina, USA.

March 2017

11. 20-24 March: [The World Bank Land and Poverty Conference 2017: Responsible Land Governance - Toward an Evidence Based Approach](#)
Washington, DC, USA.



July 2017

12. 2-7 July: 28th International Cartographic Conference (ICC) of the International Cartographic Association.

Washington, DC, USA

5. Webinars

➤ Thanks to Rafael Moreno, Department of Geography and Environmental Sciences, University of Colorado Denver, the Network is informed about the new **webinar collaborations** with the University Consortium for GIS (UCGIS), and the The American Society for Photogrammetry and Remote Sensing (ASPRS).

1. The Department of Geography and Environmental Sciences will coordinate with ASPRS for 2-3 webinars of their yearly webinar offerings.

2. For these 2-3 webinars they will post the Geo4All webinar offering in the ASPRS webinars calendar and promote them with their members and mailing lists.

3. For these 2-3 webinars the Department of Geography and Environmental Sciences will use the ASPRS webinars system. They will record webinar, create MP4 video recording and give it to GeoForAll Network for posting in the Geo4All Webinars YouTube Channel. They will also post the recording in the ASPRS YouTube channel. Their webinar broadcast system supports up to 500 participants and usually they have over 100 people attending.

4. The ASPRS webinars usually take place final Friday of every month around noon. The Department of Geography and Environmental Sciences will select dates for the join webinar preferably out of the summer months when many members and audience of the Geo4All community are out.

5. Next webinar will be Friday November 11, at 15:00 (GMT). To register attend please see link and instructions below

The recording will be posted in the Geo4All YouTube Channel

(https://www.youtube.com/channel/UCL1E2akvCNWP_nC0p5CpB8g) and also in the ASPRS recording

system.

TO JOIN PLEASE FOLLOW INSTRUCTIONS BELOW:

UN Open GIS Initiative – Open Source Geospatial S/W for the UN

[Add to Calendar](#)

1. Click the link to join the webinar at the specified time and date:

Fri, Nov 11, 2016 10:00 AM - 11:00 AM EST

<https://global.gotowebinar.com/pjoin/9194387089671448580/4547422141155367172>

Before joining, be sure to [check system requirements](#) to avoid any connection issues.

Note: This link should not be shared with others; it is unique to you.

2. Choose one of the following audio options:

TO USE YOUR COMPUTER'S AUDIO: When the webinar begins, you will be connected to audio using your computer's microphone and speakers (VoIP). A headset is recommended

6. Courses

- [Triangle Area GIS](#) is a “collaboration site for multidisciplinary GIS users in the Triangle” area of North Carolina. They offer free webinars throughout the year in many GIS and mapping areas, as well as paid training and group meeting planning space.

7. Training programs

- GeoForAll educational inventory system, a place to search and share educational materials: http://www.osgeo.org/educational_content
- <https://blog.gvsig.org/2016/08/10/video-of-the-vector-editing-3d-view-and-other-tools-in-gvsig-webinar-available/> This webinar was about how to edit vector layers and use geoprocessing tools, how to export the elements of a vector file in



gvSIG to KML format and load it in Google Earth and how the 3D extension works.

- 21-Day Training Programme on Geospatial Technology will be organised during November 14 to December 3, 2016 by CEPT-ICA-OSGeo Laboratory and Faculty of Technology, CEPT University, Ahmedabad, India. The training programme is financially supported by Department of Science and Technology (DST), Government of India.

For more information visit:

[Link of the Boucher](#)

[Link of the Application Form](#)

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

1. Version 10.0 of the OSGeo-Live GIS software collection has been released and can be downloaded from: <https://sourceforge.net/projects/osgeo-live/files/10.0/>

Picking the right image for you:

osgeo-live iso: 3.9 GB

A Ubuntu based bootable image, which can be copied to an 8 Gig USB thumb drive (faster and recommended) or DVD (cheaper). It can also be used to build a virtual machine from scratch.

osgeo-live-vm: 3.3 GB

This is a pre-made virtual machine (.vmdk), based on osgeo-live, suitable for use in VirtualBox, VMWare, KVM and other virtual machine applications. It has been compressed using [7-Zip](#).

amd64 or i386 architecture

ISO images are available for recent amd64 hardware (recommended) as well as older i386 hardware.

md5 checksum

You can use the md5 checksum to verify the image downloaded successfully.

System Requirements

Minimum suggested system resources: 1 GB RAM (2 GB are better for trying Java based applications), 1GHz i386 or amd64 compatible CPU. No hard drive required. Mac users will benefit from a 3-button USB mouse.

1. gvSIG 2.3 RC2 is now available: <https://blog.gvsig.org/2016/08/10/gvsig-2-3-rc2-is-now-available/>

2. Release 3.6.0 of GEOS (Geometry Engine, Open Source) is available here:

<http://download.osgeo.org/geos/geos-3.6.0.tar.bz2>

MD5: 55de5fdf075c608d2d7b9348179ee649

11. Free Books, educational materials, etc.

➤ FOSS4G 2016: gvSIG Video recordings: <https://blog.gvsig.org/2016/08/26/foss4g-2016-gvsig-video-recordings-1/>

➤ [Free gvSIG Tutorial in English: Analyzing skatepark location in New York city in relation with graffiti cleaning complaints using gvSIG](#)

There's a new free tutorial about gvSIG in English, provided by Marwa Hassan, from Abu-Dhabi (United Arab Emirates).

This new document is a project that analyzes if skatepark location in New York city are related to graffiti cleaning complaints, using geoprocessing tools in gvSIG.

Two different documents are provided:

- A short document where only the tools to do that analysis are used.
- A long tutorial where that analysis is complemented with other tools, and almost all the main gvSIG functionalities are used in it (layouts, geoprocessing, symbology, labelling, editing tools...).

At the beginning there's a section where how to download the cartography is explained.



Downloads are available here: [Long document–Short document.](#)

- New free book in Spanish. The book is about GIS and costal environments. You can download the book at <http://www.tysmagazine.com/libro-gratuito-sistemas-informacion-geografica-la-gestion-integral-del-litoral/>
- O'Really offers free books of programming. They are free in the sense of money (“gratis” in spanish or catalan), but not free in the sense of freedom to modify (“libre” in spanish) <http://blog-idee.blogspot.com.es/2016/10/libros-gratuitos-de-programacion.html>

12. Articles

Abbreviations

by **Nikos Lambrinos**, Chief Editor
Department of Primary Education, Aristotle University of Thessaloniki, Greece

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

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

CAD: Computer Aided Design

CEOS: Committee on Earth Observation Satellites

CLGE: The Council of European Geodetic Surveyors

COGO: Coordinate geometry

CRS: Coordinate Reference System

CSA: Canadian Space Agency

DAAC: Distributed Active Archive Center (of NASA)

DEM: Digital Elevation Model

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

EPSG: European Petrol Survey Group (used in projection IDs)

ESA: European Space Agency

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

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

NGA: National Geospatial Intelligence Agency



OER: Open Educational Resources
 OGC: Open Geospatial Consortium
 OSGeo: Open Source Geospatial Foundation
 OSM: OpenStreetMap
 RDA: Research Data Alliance
 RCMRD: Regional Centre for Mapping of Resources for Development
 ROSHYDROMET: Russian Federal Service for Hydrometeorology and Environmental Monitoring
 SDI: Spatial Data Infrastructure
 SQL: Structured Query Language
 STSM: Short Term Scientific Missions
 TIN: Triangulated Irregular Network
 UAV: Unmanned Aerial Vehicle
 USGIF: United States Geospatial Intelligence Foundation
 WCS: Web Coverage Service
 WFS: Web Feature Service
 WGCapD: Working Group on Capacity Building and Data Democracy
 WGS: World Geodetic System
 WMO: World Meteorological Organization
 WMS: Web Map Service
 WMTS: Web Map Tiles Services
 WPS: Web Processing Service

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. We would like to welcome DePaul University, Department of Geography, as the 112th Lab of GeoForAll network.

3. **Tutor experts in PostGIS wanted** for a new course on PostGIS starting from 9 January. The course that will be taught is that of Boundless (<http://workshops.boundlessgeo.com/postgis-intro/>). If you are interested to participate as a tutor please send an email to Prof. Maria Antonia Brovelli (maria.brovelli@polimi.it)

