



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.
[\(http://www.meetup.com/OttawaOSGeo/\)](http://www.meetup.com/OttawaOSGeo/)

3. Events

- Geo4All International Network of FOSS4G Labs Webinar Series
[\(http://www.geoforall.org/webinars/\)](http://www.geoforall.org/webinars/)
 Using Maptime and Libraries to teach FOSS4G. Webinar recording is posted at:
https://www.youtube.com/channel/UCL1E2akvCNWP_nC0p5CpB8g/videos
 or <https://youtu.be/jHbEn66--Os>

- Recordings of the 4th gvSIG Festival presentations are already available at <https://blog.gvsig.org/2019/04/05/recording-of-presentations-given-at-4th-gvsig-festival-are-now-available/> The gvSIG Festival is the virtual conference about gvSIG that was held on April 17 and 18. The Festival gave a special visibility to women who work in the world of geomatics.
- Geo4All International Network of FOSS4G Labs Webinar Series (<http://www.geoforall.org/webinars/>) Mapping Urban Forests & Parks in the Cloud using FOSS4G
- Webinar by Ian Hanou and Clayton Steneroden from PlanIT Geo (www.planitgeo.com) on FOSS4G for Cloud-based urban forestry applications. Video recording is posted in the Geo4All webinars YouTube Channel at: <https://youtu.be/IA7-OvAf5Uc>
- Mapping for Diplomacy mapathon event occurred April 5, 2019. More details available here: <https://diplomacy.state.gov/archives/5268>
- OSGeo Community Sprint in Minneapolis is May 14-17 at the University of Minnesota. You can learn more and sign up at: https://wiki.osgeo.org/wiki/OSGeo_Community_Sprint_2019



Editorial Board

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

<p>Chief Editor</p> 	<p>Nikos Lambrinos, 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
<p>Co-editor</p> 	<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.
<p>Co-editors</p> 	<p>Pavel Kikin, Senior Lecturer "Department of applied informatics and IT", Siberian State Univer. of Geosystems and Technologies Alexey Kolesnikov, Senior Lecturer "Department of cartography and GIS", Siberian State Univer. 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.
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<p>Production Designer</p> 	<p>Nikos Voudrislis, MSc, PhD in geography education. nvoudris@gmail.com</p>	Design and final formation of the newsletter
	<p>Paulo César Coronado Sánchez, Professor of computer sciences at Universidad Distrital Francisco José de Caldas, Head of GISEPROI and OSGeoLabUD research Group. Bogotá, Colombia paulocoronado@gmail.com</p>	Translator and designer of the Spanish Edition



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

▪ 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>

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

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

Africa Region

Chairs: Msilikale Msilanga (Tanzania), 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>

<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



4. Conferences

Europe

May 2019

1. 16 May: [Interdisciplinary protection and promotion of the night sky: state of the art, action items, and visions](#)

Venue: Brescia, Italy

2. 19-22 May: [16th International Conference on Information Systems for Crisis Response and Management](#) (ISCRAM 2019)

Venue: Valencia, Spain

3. 29-30 May: [Free GIS Days](#)

Venue: Girona, Spain.

Open to new [Proposals and workshops](#)

June 2019

4. 10-14 June: [ISPRS Geospatial Week 2019](#)

Venue: University of Twente, Enschede, The Netherlands

July 2019

5. 1-4 July: [29th EARSeL Symposium 2019](#)

Venue: Salzburg, Austria

August 2019

6. 26-30 August: [FOSS4G Bucharest 2019](#)

Venue: Bucharest, Romania

September 2019

7. 19-20 September: [Hot Summit 2019](#)

Venue: Heidelberg, Germany

8. 21-23 September: [State of the Map](#)

Venue: Neuenheimer Feld campus, Chemistry lecture hall building, Heidelberg, Germany

October 2019

9. 8-9 October: [1st International Workshop on Legal and Ethical Issues in Crowdsourced Geographic Information](#)

Venue: University of Zurich, Zurich, Switzerland

North and Central America and the Caribbean

June 2019

10. 10 June: [GeoEd '19](#)

Venue: Jefferson Community and Technical College, Louisville, Kentucky, USA.

11. 12-14 June: [2019 EarthCube Annual Meeting](#)

Venue: Denver, Colorado, USA

Deadline for abstracts: Friday, April 19th, 2019

South America

July 2019

12. 1-5 July: XVII Biennial [The International Association for the Study of the Commons](#) (IASC)

Conference

Venue: Lima, Peru.

Africa

April – May 2019

13. April 30 – May 3: [ICT4D](#)

Venue: SPEKE RESORT MUNYONYO, Wavamunno Road, Kampala, Uganda

14. 8-10: [IST-Africa 2019 Conference](#)

Venue: Nairobi, Kenya.



Asia

July 2019

15. 15-20 July: [29th International Cartographic Conference \(ICC2019\)](#)

Venue: Tokyo, Japan.

September 2019

16. 19-20 September: [CODATA 2019](#).

Venue: Beijing, China



Oceania

September 2019

17. 18-21 September: 15th International Conference on [GeoComputation 2019](#)

Venue: Queenstown, New Zealand

7. Training programs

- GeoForAll educational materials have been transferred to our new web site. [GeoForAll educational inventory system, a place to search and share educational materials](#)

- 5-day immersion workshop held at Yale University, New Haven, CT, USA.

Geo-Computation and Environmental Analysis Workshop (May 13th-17th, 2019).

More info at

<https://research.computing.yale.edu/training/geo-computation-bootcamps/geo-computation-and-environmental-analysis-workshop>

- 5th International Summer School held at the Univ. of Basilicata, in the magnificent town Matera, Italy.

Geocomputation using free and Open Source Software (3th-7th June 2019).

More info at www.spatial-ecology.net

Students will be guided through the use of a command line interface using advanced open source data processing routines for geo-computation in Linux environment.



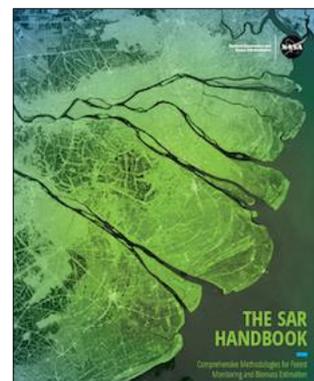
11. Free books, educational materials etc.

- SAR Handbook: Comprehensive Methodologies for Forest Monitoring and Biomass Estimation, Published: Apr 09 2019.

The SAR Handbook: Comprehensive Methodologies for Forest Monitoring and Biomass Estimation is the culmination of a two-year collaboration between NASA SERVIR and SilvaCarbon. Five trainings, led by six SAR subject matter experts, were held at hubs throughout the SERVIR network. The topics of these trainings included SAR basics, SAR for forest change detection, forest height estimation, biomass estimation, mangrove monitoring, and sampling design. Each of these training topics are covered in a SAR Handbook chapter, which includes the theoretical basics and applied exercises. You can download the entire SAR Handbook (PDF) at

<https://www.servirglobal.net/Global/Articles/Article/2674/sar-handbook-comprehensive-methodologies-for-forest-monitoring-and-biomass-estimation>

or explore individual chapters, trainings, and one-pagers.



- Introduction to Remote Sensing of Aquatic Systems: Principles and Applications (in Portuguese). Download at <http://www.dpi.inpe.br/labisa/livro/res/conteudo.pdf>



12. Articles

Acronyms

by **Nikos Lambrinos**, Chief Editor, and **Michael Finn**.

For those who would like to support this effort, please send any acronyms 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

GODAN: Global Open Data for Agriculture and Nutrition

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

GSoC: Google Summer of Code

HOT: Humanitarian OpenStreetMap Team

HPC: high-performance computing

ICA: International Cartographic Association



GeoForAll



ICSU-WDS: International Council for Science – World Data System

IDE: Spatial Data Infrastructure

INSPIRE: Infrastructure for Spatial Information in Europe

IPGH: Pan American Institute of Geography and History

ISO: International Organization for Standardization

ISPRS: International Society for Photogrammetry and Remote Sensing

ISPRS: International Society for Photogrammetry and Remote Sensing

JAXA: Japan Aerospace Exploration Agency

KML: Keyhole Markup Language

LiDAR: 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

OECD: Organisation for Economic Co-Operation and Development

OER: Open Educational Resources

OGC: Open Geospatial Consortium

OHI: International Hydrographic Office

OSGeo: Open Source Geospatial Foundation

OSM: OpenStreetMap

OTB: Orfeo Tool Box

RCMRD: Regional Centre for Mapping of Resources for Development

RDA: Research Data Alliance

ROSHYDROMET: Russian Federal Service for Hydrometeorology and Environmental Monitoring

RUFORUM: Regional Universities Forum for capacity building in agriculture

SaaS: Software as a Service

SAR: Synthetic Aperture Radar

SDI: Spatial Data Infrastructure

SIG: Geographic Information System

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

UML: Unified Modeling Language

UN-GGIM: United Nations Global Geospatial Information Management

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 Tiles Services

WOIS: Water Observation Information System

WPS: Web Processing Service



16. Websites

Resources from National Geographic Institute of Spain about orientation. All in Spanish

<https://www.youtube.com/watch?v=si0xLXvPj68>

<https://www.youtube.com/user/IGNSpain>.

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.

FOSS4G is the annual global event of the Open Source Geospatial Foundation. It is the largest technical geospatial Open Source conference in the world. The FOSS4G conference focuses on Free and Open Source Software for Geospatial applications. In addition to high level technical talks four key domain are discussed every year to showcase the connection between free and open source software and communities from neighbouring domains.

2. Big Earth Data Special Issue Call for Papers: "Big Data for Environmental Analysis in South America"

Deadline: 31 August 2019

<https://think.taylorandfrancis.com/bed-2019si1/>

3. On behalf of Sarah Maddox, Andrew Chen, and the Season of Docs team

Dear all,

We're delighted to announce that we've launched the 2019 pilot of Season of Docs. Details are on our website: <https://developers.google.com/season-of-docs/>.

Season of Docs is a Google program that fosters collaboration between open source projects and technical writers. It's similar to Summer of Code, but with a focus on documentation and technical writers. Would you like to take part as a mentor in the inaugural year of Season of Docs? Organization

applications open on April 2, 2019. See the full timeline and join the announcement group at [season-of-docs-announce](#) to stay informed.

If you have any questions, please email season-of-docs-support@googlegroups.com.

Many thanks again for your valuable feedback on the initial proposal.

4. By Suchith Anand

Dear colleagues,

Open Data Management in Agriculture and Nutrition online course and resources from GODAN Action might be useful to some of you. The course might be useful for policy makers and scientists working in the area of agriculture, nutrition, weather and climate, and land data.

It consists of five units as follows including 18 lessons.

Unit 1: Open Data Principles

More Details, lecture slides at

<http://aims.fao.org/online-courses/open-data-management-agriculture-and-nutrition/unit1>

Unit 2: Using Open Data

More Details, lecture slides at

<http://aims.fao.org/online-courses/open-data-management-agriculture-and-nutrition/unit2>

Unit 3: Making Data Open

More Details, lecture slides at

<http://aims.fao.org/online-courses/open-data-management-agriculture-and-nutrition/unit3>

Unit 4: Sharing Open Data

More Details, lecture slides at

<http://aims.fao.org/online-courses/open-data-management-agriculture-and-nutrition/unit4>

Unit 5: Intellectual Property and Copyright

More Details, lecture slides at

<http://aims.fao.org/online-courses/open-data-management-agriculture-and-nutrition/unit5>

This e-learning course and course materials is the result of a collaboration between GODAN Action partners, including the Food and Agriculture Organization of the United Nations ([FAO](#)), the Global Forum on Agricultural Research ([GFAR](#)), Wageningen Environmental Research, AgroKnow, [AidData](#), the



Institute of Development Studies ([IDS](#)), the [Land Portal](#), the Open Data Institute ([ODI](#)), and the Technical Centre for Agriculture and Rural Cooperation ([CTA](#)). I want to thank all GODAN colleagues who worked to develop these resources and make it available for everyone.

5. By Suchith Anand

There is a lot of work done by GeoForAll colleagues that might be useful. One example is the **FOSS4G GeoAcademy Curriculum lectures and labs**. These are maintained and made available for download from the Spatial {Query} Lab on behalf of the [GeoAcademy](#). The lectures focus on a vendor-agnostic set of theories and principles.

These lectures and labs are freely available for you to use and are released under the [Creative Commons Attribution 3.0 Unported license](#). The lectures and labs are aligned to the [Geospatial Technology Competency Model](#), and all labs focus on the use of Free and Open Source GIS Software (FOSS4G). All of the labs are also available on [GitHub](#).

The following courses are available:

[GST 101 – Introduction to Geospatial Technology \(QGIS\)](#)

[GST 102 – Spatial Analysis \(QGIS\)](#)

[GST 103 – Data Acquisition and Management \(QGIS\)](#)

[GST 104 – Cartographic Design \(QGIS and Inkscape\)](#)

[GST 105 – Introduction to Remote Sensing \(QGIS and GRASS\)](#)

All details and courses at

<http://spatialquerylab.com/foss4g-academy-curriculum/>

You can download the software and resources from <http://www.osgeo.org/initiatives/geo-for-all/in-your-classroom/>

6. By Suchith Anand

The Nairobi INSPIRE Hackathon 2019 is one of the satellite INSPIRE hackathons. The hackathon is organised in the frame of the IST Africa 2019 Conference. The hackathon is a collaborative event organised by Plan4all and Club of Ossiach associations

and EU projects including EO4Agri, DataBio, NextGEOSS, EUXDAT, PoliVisu, and AFarCloud.

The goal of the Nairobi INSPIRE Hackathon 2019 is to build and strengthen relationships between several EU projects and African communities. This hackathon is not a competition. The focus is on building relationships, making rapid developments, and collecting ideas for future research and innovation.

Details at <https://www.plan4all.eu/nairobi-inspire-hackathon-2019/>

7. By Suchith Anand

Open Up Guide for Agriculture is a guide for governments to open agricultural data, created by GODAN and the Open Data Charter. The [Open Up Guide for Agriculture](#) provides guidance on the key elements of opening datasets in agriculture. It focuses on three elements: why open data is important, what data should be opened based on policy perspectives, and what elements should make up a strategy. Details at <http://openupguideforag.info>

The guide was created for policymakers and civil society who want to inform decision makers on open data and agriculture, and understand how open data can make a difference for the agricultural sector and food security. It can be used by those who want to start developing an open data strategy for agricultural transformation in their country or region.

Based on consultations with the agricultural and open data community, 14 key data categories from government sources have emerged. The 14 key categories have been evaluated in terms of impact and effort to publish, along with case studies and examples of use. Details at <https://openupguideforag.info/what-data/data-categories/>

There are examples from around the world at <https://openupguideforag.info/governments-in-action/case-studies/>

