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/)

3. Events

- Geo4All International Network of FOSS4G Labs

  Webinar Series (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

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

Editorial Board

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

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
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

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

April 2019

10. 1-5 April: GeoInfo – 2019.
Venue: International Conference Center of Havana, Cuba
Abstracts Deadline: January 20, 2019

11. 2-4 April: RDA 13th (P13) Plenary Meeting
Venue: Loews Hotel - Philadelphia, Pennsylvania, USA

12. 3-7 April: AAG Annual Meeting
Venue: Washington, DC, USA.

13. 15-18 April: FOSS4G NA
Venue: San Diego, California, USA.

May 2019

14. 4 May: AAG 2019: Mapping for Diplomacy.
Venue: The United States Diplomacy Center, 330 21st St NW, Washington, DC 20006

June 2019

15. 10 June: GeoEd '19
Venue: Jefferson Community and Technical College, Louisville, Kentucky, USA.

16. 12-14 June: 2019 EarthCube Annual Meeting
Venue: Denver, Colorado, USA
Deadline for abstracts: Friday, April 19th, 2019

South America

July 2019

17. 1-5 July: XVII Biennial The International Association for the Study of the Commons (IASC) Conference
Venue: Lima, Peru.

Africa

April – May 2019

18. April 30 – May 3: ICT4D
Venue: SPEKE RESORT MUNYONYO, Wavamunno Road, Kampala, Uganda

19. 8-10: IST-Africa 2019 Conference
Venue: Nairobi, Kenya.

Asia

July 2019

20. 15-20 July: 29th International Cartographic Conference (ICC2019)
Venue: Tokyo, Japan.

Oceania

September 2019

21. 18-21 September: 15th International Conference on GeoComputation 2019
Venue: Queenstown, New Zealand

5. Webinars

- Intermediate Webinar: Remote Sensing for Disaster Scenarios
  Tuesdays, April 16-30, 2019

- Massive Open Online Course on Geographic Information Systems - Part 1

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.

12. Articles

Acronyms

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

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

3DEP: 3-D Elevation Program

AAG: Association of American Geographers

AGS: American Geographical Society

AM/FM: Automated Mapping/Facilities Management

ASPRS: American Society for Photogrammetry and Remote Sensing

AURIN: Australian Urban Research Infrastructure Network

BBSRC: Biotechnology and Biological Sciences Research Council

BIM: Building Information Modelling

CAADP: Comprehensive African Agricultural Development Programme

CAD: Computer Aided Design

CaGIS: 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

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

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 Hydrometeorologyand Enviromental 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

13. Scholarships for students

The call for "Fellowships and Admission of foreign nationals educated abroad - 2019/2020" at Roma La Sapienza is open. Please find more details at

https://www.uniroma1.it/it/pagina/dottorati-di-ricerca

15. Awards

The Free Software Foundation (FSF) recognizes OpenStreetMap with the 2018 Free Software Award for Projects of Social Benefit.

The Award for Projects of Social Benefit is presented to a project or team responsible for applying free software, or the ideas of the free software movement, to intentionally and significantly benefit society. This award stresses the use of free software in service to humanity.

Details at https://www.fsf.org/news/openstreetmap-and-deborah-nicholson-win-2018-fsf-awards

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.
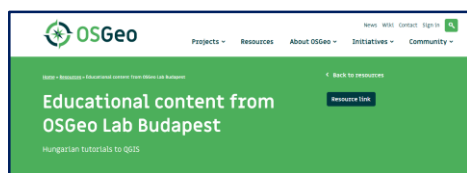
2. The third edition of the EU Datathon has been officially launched on 28 January 2019 by the **Publications Office of the European Union**, in partnership with the **Romanian Presidency of the Council of the European Union**.

The EU Datathon is an event growing in popularity aiming to further **stimulate the use of open data** issued by the European Union. It allows competitors to showcase their data skills and innovative ideas. Furthermore, it offers them the opportunity to network and gather support in order to continue developing their ideas after the competition.

The challenges

Participants are invited to develop apps and interactive visualisations offering new services or public information insights to citizens, public authorities, and businesses. They have to use **at least one dataset** made available by the EU Institutions, Agencies, and other bodes and **combine** it with **at least one dataset** of the competition's partners. The

participating teams can compete with their apps in **one horizontal or two thematic challenges.**

Challenge 1: 'Innovative ideas through EU open data'

Challenge 2: 'New insights into economics and finance'

Challenge 3: 'Tackling climate change'

The prizes

The competition is supported by the **European Parliament's** Preparatory Action "Linked Open Data in the European Public Administration" and the **European Commission ISA² programme** (Interoperability solutions for public administrations, businesses and citizen). Joining the 2019 competition gives the opportunity to win one of the cash prizes in each challenge.

1st prize EUR 15.000

2nd prize EUR 7.000

3rd prize EUR 3.000

The competition will culminate with the final conference in Brussels on 13 June 2019, where finalists will present their projects in front of an expert jury and the open data community.

More information on the competition rules, evaluation process, webinars (and previous editions) at https://publications.europa.eu/en/web/eudatathon/2019-rules

Details at https://publications.europa.eu/en/web/eudatathon/home

3. Building on the Africa Regional Data Cube and the Digital Earth Australia program, developed by Geoscience Australia, Digital Earth Africa will use data cube technology to translate over 30 years of Earth observation satellite imagery into information and insights on the changing African landscape and coastline.

Digital Earth Africa will use Open Data Cube technology that underpins Digital Earth Australia and the Africa Regional Data Cube. The Open Data Cube (ODC) is a global initiative to increase the value and use of satellite data by providing users with access to free and open data management technologies and analysis platforms. Details at **http://www.ga.gov.au/digitalearthafrica**

4. 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/

5. 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.

6. JOB: Teaching Assistant Professor/Teaching Associate Professor, NC State's Center for Geospatial Analytics

The Center for Geospatial Analytics (geospatial.ncsu.edu) at North Carolina State University is seeking a highly motivated individual to join its academic programs as a non-tenure track, 9-month, faculty member at the rank of Teaching Assistant Professor or Teaching Associate Professor. The selected individual will join a dynamic team of interdisciplinary faculty dedicated to educating the next generation of geospatial data science professionals and will contribute to a diverse and inclusive teaching environment.

The primary duty of this position will be to teach and develop courses in the center's highly ranked Professional Master of Geospatial Information Science & Technology Program (MGIST), Graduate Certificate in GIS Program, and growing offerings at the undergraduate level. The selected individual will teach the equivalent of five to six classes per year online and/or on-campus. Topics may include geospatial data infrastructure, cloud computing and CyberGIS, spatial analysis, geospatial programming and development, open source GIS, and decision analytics. The selected individual will also have opportunities to develop new courses in their area of expertise at the undergraduate and graduate levels. Service commitments may include mentoring students and serving on programmatic committees within the Center for Geospatial Analytics. There is also an opportunity to play a leadership role in the development of an interdisciplinary undergraduate minor in GIS and geospatial data sciences, including but not limited to curriculum development and student advising once the program is established. The initial contract will be for three years, with opportunities for multiple renewals and advancement based on yearly performance reviews and progress.

Applicants must have a Ph.D. in a relevant field, with clear evidence of geospatial/GIS expertise. The ideal candidate will also have demonstrated:
• Ability to teach at the undergraduate/graduate level.
• Proficiency using geospatial tools, including Esri and Open Source products (e.g., AGOL, ArcGIS Pro, ArcMap, QGIS, GRASS GIS, R) in teaching and research settings.
• Proficiency with enterprise or advanced spatial database environments (e.g., PostgreSQL, SQL Server,

Oracle) and cloud computing environments (e.g., AWS, Azure).

• Strong data science and analytical background.

• Proficiency with programming languages (e.g., SQL, Python, JavaScript).

Experience in developing courses, advising undergraduate students, and teaching in an online environment is highly desired.

NC State University is a land-grant institution located in the Research Triangle of North Carolina, and the Center for Geospatial Analytics is the foremost interdisciplinary research and teaching center of its kind in the nation. As the collaborative hub for NC State's Chancellor's Faculty Excellence Program in Geospatial Analytics, the center provides a dynamic environment for integrative data scientists who advance novel understanding of spatial phenomena and apply new knowledge to grand challenges. Its distinguished, forward-thinking educational programs combine foundational theory with hands-on training and real-world service-learning.

Questions about the position may be directed to Dr. Eric Money (esmoney@ncsu.edu)

To apply: visit https://jobs.ncsu.edu/postings/114342. NC State University is an equal opportunity and affirmative action employer. Individuals with disabilities requiring disability-related accommodations in the application and interview process, please call 919-515-3148.

7. 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.

8. 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/

9. 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/

10. 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/