



GeoForAll

Monthly Newsletter



Be part of "Geo for All"

Table of Contents

- Editorial 2
- Editorial Board 2
- 1. Activities 2
- 2. A) Lab of the month..... 2
- B) GeoAmbassador 2
- 3. Events 2
- 4. Conferences 1
- 5. Webinars 5
- 6. Courses 2
- 7. Training programs 5
- 8. Key research publication..... 2
- 9. Funding opportunities 2
- 10. New free and open software, open data 2
- 11. Free Books 5
- 12. Articles 5
- 13. Scholarships for students and staff 2
- 14. Exchange programs for students and staff 2
- 15. Awards 2
- 16. Web sites 2
- 17. Ideas 8
- 18. Social contribution 2

4. Conferences

Europe

September 2024

- 1. 9-10: [QGIS User Conference 2024](#)
Venue: Faculty of Civil Engineering, Slovak Technical University, Bratislava, Slovakia

- 2. 25-27: [5th Spatial Humanities Conference 2024](#)

Venue: Bamberg, Germany

October 2024

- 3. 14-16: [XX Congress of Geographic Information Technologies](#)

Venue: Palma, Mallorca, Balearides Islands, Spain

South America

July 2024

- 4. 03-05: [XVIII IDERA Conference](#)
Venue: Santiago del Estero, Argentina

December 2024

- 5. 01-08: [FOSS4G](#) (stay tuned for more news in the future)
Venue: Belém, state of Pará, Brazil

Asia

November 2024

- 6. 17-21: The 2nd [Ramon International Geospatial Intelligence 360](#) Conference Geospatial Intelligence for Sustainable and Resilient Future
Venue: Tel-Aviv, Israel

North America and Central America

July 2024

- 7. [Hacking Limnology 2024 and Data Science and Open Science in Aquatic Research](#)
Venue: Virtual Summit

August 2024

- 8. 14-16: CPGIS; 2024 - The 31st International Conference on Geoinformatics
Venue: Toronto, Ontario, Canada

September 2024

- 9. 9-11: [FOSS4G NA 2024](#)
Venue: St. Louis, MO, USA

October 2024

- 10. 14-16: [I-Guide Forum 2024](#)
Venue: Jackson, Wyoming, USA



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
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<p>Co-editor</p> 	<p>Seraphim Alvanides, Reader (Geographical Information Science) Northumbria University, Newcastle NE1 8ST, United Kingdom. s.alvanides@gmail.com</p>	Scandinavian countries, Denmark, Germany, Austria, Switzerland, UK, Ireland, Iceland
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<p>Co-editor</p> 	<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
<p>Co-editor</p> 	<p>Codrina Ilie, PhD student at the Technical University of Civil Engineering, Bucharest, Romania</p>	The Balkans, Ukraine, Moldavia, Estonia, Lithuania, Belarus, Latvia, Hungary, Czech Republic, Slovakia
<p>Production Designer</p> 	<p>Nikos Voudrisslis, 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

Theme under revision

▪ 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



GeoAmbassador Content table

July 2016, Vol.2, no.7	Prof. Georg Gartner, Vienna University of Technology
Aug 2016, Vol.2, no.8	Prof. Silvana Philippi Camboim, Federal University of Paraná, Brazil
Sep 2016, Vol.2, no.9	Nimalika Fernando, Sri Lanka
Oct 2016, Vol.2, no.10	Sergio Acosta Y Lara, Montevideo Uruguay
Nov 2016, Vol. 2, no. 11	Victoria Rautenbach, Centre of Geoinformation Science Univ. of Pretoria, South Africa
Dec 2016, Vol.2, no.12	Dr. Daria Svidzinska, Taras Shevchenko National University of Kyiv, Ukraine
Jan 2017, Vol.3 no.1	Dr. Mark Ware, University of South Wakes, UK
Feb 2017, Vol.3, no. 2	Dr. Rafael Moreno Sanchez, Department of Geography and Environmental Sciences, University of Colorado Denver, USA
March 2017, Vol.3 no.3	Dr. Tuong Thuy Vu, School of Environmental and Geographical Sciences, University of Nottingham, Malaysia campus
April 2017, Vol.3 no.4	Michael P. Finn, U.S. Geological Survey
May 2017, Vol.3 no.5	Dr. Peter Mooney, Maynooth University, NASA
June 2017, Vol.3 no.6	Patrick Hogan, NASA
July 2017, Vol.3 no.7	Prof. Dr. Josef Strobl, Salzburg
September 2017, Vol.3 no.9	Bridget Fleming, South Africa
October 2017, Vol.3 no.10	Sven Schade, Joint Research Centre, Italy
November 2017, Vol.3 no.11	Luciene Stamato Delazari, Universidade Federal do Paraná in Brazil
December 2017, Vol.3 no.12	Charlie Schweik, Univ. of Massachussets, USA
January 2018, Vol.4 no.1	Julia Wagemann, European Centre for Medium-Range Weather Forecasts
February 2018, Vol.4 no.2	Barend Köbben, Department of Geo-Information Processing University of Twente
March 2028, Vol.4 no.3	Kurt Menke, Birds Eye View
April 2018, Vol.4 no.4	Dr. Clous Rinner, Department of Geography and Environmental Studies at Ryerson University, Toronto, Canada
June 2018, Vol.4, no.6	Martin Landa, Department of Geomatics, Faculty of Civil Engineering, Czech Technical University (CTU) in Prague

Lab of the Month, Content table

Aug 2015, Vol.1 no.1	Open Source Geospatial Lab, Kathmandu University, Nepal (Asia)
Sep 2015, Vol.1 no.2	FOSS4G Lab, University of Colorado Denver (USA)
Oct 2015, Vol.1, no.3	Open Source Geospatial Lab, University of Southampton, UK (Europe)
Nov 2015, Vol.1 no.4	The Northeast Institute of Geography and Agroecology of Chinese Academy of Science, China (Asia)
Jan 2016 , Vol.2 no.1	Centre for Geoinformation Science, University of Pretoria, South Africa, (Africa)
Feb 2016, Vol.2 no.2	Open Source Geospatial Lab, University of Newcastle, UK, (Europe)
Mar 2016, Vol.2 no.3	SMART Open Source Geospatial Lab, University of Wollongong, (Australia)
Apr 2016, Vol.2 no.4	Regional Centre for Mapping of Resources for Development, Nairobi, Kenya (Africa)
May 2016, Vol.2 no.5	GeoDa Centre – Arizona State University, (USA)
June 2016, Vol.2 no.6	Direccion Nacional de Topografia – MTOP Montevideo, Uruguay, (South America)
July 2016, Vol.2 no.7	SIGTE – University of Girona, Spain (Europe)
August 2016, Vol.2 no.8	Open Source Geospatial Lab, Department of Geodesy and Surveying, Budapest Univ. of Technology and Economics, Hungary (Europe).
September 2016, Vol.2 no.9	Open Source Geospatial Lab, Faculty of Geodesy, University of Zagreb, Croatia, (Europe)
October 2016, Vol.2 no.10	Hellenic digital earth Centre of Excellence, Aristotle University of Thessaloniki, Greece, (Europe)
November 2016, Vol.2 no.11	Department of Geoinformatics, Palacký University in Olomouc, Czech Republic
December 2016, Vol.2 no.12	Asian Institute of Technology, Bangkok, Thailand
January 2017, Vol.3 no.1	Spatial Lab, Texas A&M, Corpus Christi, USA
February 2017, Vol.3 no.2	Open Source Geospatial Lab, Faculty of Civil Engineering, Belgrade, Serbia
March 2017, Vol.3 no.3	Geomatics and Earth Observation Laboratory (GEOLab) , Politecnico di Milano, Italy
April 2017, Vol.3 no.4	Faculty of Civil Engineering, Department of Geomatics, Czech Technical University in Prague, Czech Republic
May 2017, Vol.3 no.5	the Laboratory of socio-geographical research of the University of Siena, ITALY
June 2017, Vol.3 no.6	A World Bridge program
July 2017, Vol.3 no.7	Department of Civil, Environmental and Mechanical Engineering of the University of Trento, Italy
August 2017, Vol.3 no.8	Institute of Geography, Faculty of Science, Pavol Jozef Šafárik University in Košice, Slovakia
November 2020, Vol.6 no.11	Universitat Oberta de Catalunya (UOC), Spain
January 2021, Vol.7 no.01	gvSIG Uruguay Community, Uruguay



5. Webinars

- If you want to start learning how to use QGIS, there are some excellent free resources at <https://www.gislounge.com/free-ways-to-learn-qgis/>

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](#)

11. Free books, educational materials, etc.

- Visit the YouTube QGIS channel at <https://www.youtube.com/channel/UCGS162t4hkOA0b35ucf1yng/videos> to get videos of QGIS applications, representations and ideas.

12. Article

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

AGI: Ambient Geographic Information

AGS: American Geographical Society

AGU: American Geophysical Union

AI: Artificial Intelligence

AM/FM: Automated Mapping/Facilities Management

AOSP: African Open Space Platform

API: Application Programming Interface

ASPRS: American Society for Photogrammetry and Remote Sensing

AURIN: Australian Urban Research Infrastructure Network

BBSRC: Biotechnology and Biological Sciences Research Council

BDS: BeiDou Navigation Satellite Demonstration System

BIM: Building Information Modelling

CAADP: Comprehensive African Agricultural Development Programme

CAD: Computer Aided Design

CaGIS: Cartography and Geographic Information Society

CCGI: Collaboratively Contributed Geographic Information

CEGIS: Center of Excellence for Geospatial Information Science

CEOS: Committee on Earth Observation Satellites

CHIRPS - Climate Hazards Group InfraRed Precipitation with Station data

CI: CyberInfrastructure

CLGE: The Council of European Geodetic Surveyors

CODATA: Committee on Data for Science and Technology

COGO: Coordinate geometry

CRC: Census Research Centre

CRS: Coordinate Reference System



CSA: Canadian Space Agency	GPS: Global Positioning System
CSSTEAP: Center for Space Science & Technology Education in Asia and the Pacific	GPX: GPS Exchange Format
CUDA: Compute Unified Device Architecture	GRACE: Gravity Recovery and Climate Experiment (satellite program)
DAAC: Distributed Active Archive Center (of NASA)	GRASPgfs: Geospatial Resource for Agricultural Species and Pests and Pathogens with workflow integrated modeling to support Global Food Security
DEM: Digital Elevation Model	GSoC: Google Summer of Code
DSM: Digital Surface Models	HLPF: High Level Political Forum (of UN)
DWG: Design file format	HOT: Humanitarian OpenStreetMap Team
DXF: Drawing Interchange File	HPC: high-performance computing
ECMWF: European Center for Medium range Weather Forecasting	ICA: International Cartographic Association
EOS: Earth Observation Science	ICIMOD – International Centre for Integrated Mountain Development
EOSDIS: Earth Observing System and Data Information System	ICSU-WDS: International Council for Science – World Data System
EPA: Environmental Protection Agency	IDE: Spatial Data Infrastructure
EPSG: European Petrol Survey Group (used in projection IDs)	IFAD – International Fund for Agricultural Development
ESA: European Space Agency	INSPIRE: Infrastructure for Spatial Information in Europe
ESERO: European Space Education Resource Office	IPCC – Intergovernmental Panel on Climate Change
EUROGI: European Umbrella Organisation for Geographic Information	IPGH: Pan American Institute of Geography and History
EuroSDR: European Spatial Data Research	ISO: International Organization for Standardization
FDO: FAIR (Find, Access, Interoperate, and Reuse) Digital Objects	ISPRS: International Society for Photogrammetry and Remote Sensing
FOSS: Free and Open Source Software	ISRO: Indian Space Research Organization
FOSS4G: Free and Open Source Software For Geospatial	JAXA: Japan Aerospace Exploration Agency
GCP: Ground Control Point	KML: Keyhole Markup Language
GDAL: Geospatial Data Abstraction Library	LBS: Location-Based Service
GEO: Group on Earth Observations	LEO: Low Earth Orbits
GEO: Geosynchronous Earth Orbits	LiDAR: Light Detection and Ranging
GloFAS: Global Flood Awareness System	LOC: Local Organizing Committee
GNSS: Global Navigational Satellite System	LOD: Level Of Detail
GODAN: Global Open Data for Agriculture and Nutrition	MEO: Medium Earth Orbits



MIL: Media and Information Literacy	ROSHYDROMET: Russian Federal Service for Hydrometeorology and Environmental Monitoring
MoU: Memorandum of Understanding	RUFORUM: Regional Universities Forum for capacity building in agriculture
MSS: Multispectral Scanner	SaaS: Software as a Service
NAD: North American Datum	SAR: Synthetic Aperture Radar
NARSS: National Authority for Remote Sensing and Space Sciences of Egypt	SDG: Sustainable Development Goal
NCSA: National Center for Supercomputing Applications	SDI: Spatial Data Infrastructure
NDVI - Normalized Difference Vegetation Index	SIG: Geographic Information System
NDWI - Normalized Difference Water Index	SIGTE: The GIS and Remote Sensing Service of the University of Girona, Spain
NED: National Elevation Dataset	SPIDER: open SPatial data Infrastructure eEducation network
NEPAD: NEw Partnership for African Development	SQL: Structured Query Language
NGA: National Geospatial Intelligence Agency	STISA 2024: Science Technology Innovation Strategy for Africa
NHD: National Hydrologic Dataset	STSM: Short Term Scientific Missions
NIR - Near-Infrared	SWIR: Short Wave Infrared
NLCD: National Land Cover Dataset	TIN: Triangulated Irregular Network
NOOSA: United Nations Office for Outer Space Affairs	UAV: Unmanned Aerial Vehicle
NRSA: Indian National Remote Sensing Agency	UML: Unified Modeling Language
NSDI: National Spatial Data Infrastructure	UN-GGIM: United Nations Global Geospatial Information Management
NSF: National Science Foundation	USGS: U.S. Geological Survey
OECD: Organisation for Economic Co-Operation and Development	USGIF: United States Geospatial Intelligence Foundation
OER: Open Educational Resources	VGI: Volunteered Geographic Information
OGC: Open Geospatial Consortium	VNIR: Visible Near Infrared
OHI: International Hydrographic Office	XSEDE: Extreme Science and Engineering Discovery Environment
OSGeo: Open Source Geospatial Foundation	WCS: Web Coverage Service
OSM: OpenStreetMap	WFS: Web Feature Service
OTB: Orfeo Tool Box	WGCapD: Working Group on Capacity Building and Data Democracy
PPGIS: Public Participation in Geographic Information Systems	WGS: World Geodetic System
PPSR: Public Participation in Scientific Research	WISERD: Wales Institute of Social & Economic Research, Data & Methods
RBV: Return Beam Vidicon	WMO: World Meteorological Organization
RCMRD: Regional Centre for Mapping of Resources for Development	WMS: Web Map Service
RDA: Research Data Alliance	
ROSCOSMOS: Russian Federal Space Agency	



WMTS: Web Map Tiles Services

WOIS: Water Observation Information System

WPS: Web Processing Service

17. Ideas / Information

1. If you are interested in educational material, then go to <https://www.osgeo.org/initiatives/geo-for-all/in-your-classroom/> where you can find software resources for your classroom. Also, go to “Resources” <https://www.osgeo.org/resources/> to get a guidance on how to use open source projects and tools.

2. From SUCHITH ANAND (S.Anand@exeter.ac.uk)

Professor of Practice in Science Policy at the University of Exeter

Senior Adviser to Governments and International Organisations

Dear colleagues,

Climate change is an urgent global challenge that affects us all. And for those who are vulnerable and already struggling, the impacts are even harsher. Earth observations offer a vital scientific framework for monitoring and addressing these pressing issues.

Earth observations offer far more than just images from space. They provide valuable information on various aspects of the Earth’s well-being, from deforestation rates to urban resilience, and more. These insights contribute to climate models that help guide policy decisions, making science and policy mutually reinforcing.

This BBC article “Canada wildfires: Trudeau criticises Facebook over news ban amid crisis” might be of interest.

According to this BBC article published on 21st August 2023, “Canadian Prime Minister Justin Trudeau has accused Facebook of putting “profits ahead of people’s safety” after it blocked news amid devastating wildfires in the country. Facebook banned news on its platform in response to Canadian law forcing it to share profit with news outlets. Wildfire evacuees have said the ban has impacted their ability to share critical news with each other.”

Details at <https://www.bbc.co.uk/news/world-us-canada-66573512>

If this is the situation in a rich country like Canada, imagine the situation in a poor country in the developing world? Some Big Tech companies are becoming more powerful than countries.

Digital Feudalism

In 2022, I wrote a Data Values article which looks into Digital Feudalism in Earth Observation (EO) data affecting farmers. I thank the Global Partnership for Sustainable Development Data (GPSDD) for inviting me to write this article. More details at <https://datavaluesdigest.substack.com/p/how-digital-feudalism-hurts-farmers>



Data Colonialism/Data Feudalism might also lead to questions around the rise of EO data platform monopolies benefiting a few big companies and the power imbalance that could create; as well as the resulting EO data asymmetry and its impact on the global society.

As a member of the Ethics Sub Group at the Group on Earth Observations(GEO), I have been raising these topics for many years in GEO. For example, What is the impact of EO Data Colonialism for African countries and for the people of Africa?

Who owns Africa EO/Geo Portals? What are the costs to be paid per year to the GIS/EO Vendor Owners by African countries and citizens in a few years' time for accessing EO data and insights?

The Ethics Sub group was closed by GEO Secretariat in 2022. The closing of Data Ethics sub group in GEO raises many ethical questions.



It is essential that GEO Secretariat advance the dialogue on developing ethical principles and policy guidelines as a means to help address these issues. Thank you.

These articles might be of interest:

This recording of Data Talk "**Beyond "Data Colonialism": Shaping Data Governance through African Cultural Realities**" organised by the Data Innovation Lab and links to various resources might be of interest. Details at <https://www.jiscmail.ac.uk/cgi-bin/wa-jisc.exe?A2=ind2405&L=GIS-UK&O=D&P=19244>

Big Tech Companies Are Becoming More Powerful Than Nation-States

"They are already richer than many countries, and the rise of AI looks set to increase their influence. The world's biggest tech companies are now richer and more powerful than most countries."

Details at

<https://www.commondreams.org/opinion/big-tech-companies-more-powerful-than-nations>

The Big Tech Antitrust Battle Is A Fight For Democracy

<https://www.commondreams.org/views/2022/06/17/big-tech-antitrust-battle-fight-democracy>



Big Tech and AI companies are getting even more powerful than governments. Will this lead to the rise of Billionaire Tech CEOs as the most powerful rulers of the world in the future? What will be the impact of this for humanity?

Governments need to regulate the Big Tech to protect democracy, protect human rights and prevent corruption.

3. Tracking India's Air Quality

NASA Earth Observations Assist in tracking air quality in India.

Air Quality Index (AQI) values across India routinely surpasses World Health Organization limits for healthy breathing, contributing to the country's rising rates of illness and premature death. NASA Earth observation data are helping scientists track and monitor pollutants across the country.



4. The Significance of SWOT



Dr. Tamlin Pavelsky is the freshwater science lead for the SWOT mission. Credit: University of North Carolina at Chapel Hill

There never has been an orbital hydrology mission quite like the Surface Water and Ocean Topography (SWOT) spacecraft. SWOT's freshwater science lead, Dr. Tamlin Pavelsky, talks about what makes SWOT special and how you can maximize your use of SWOT data.

