Volume 9, No. 12 December 2023





# GeoForAll

Monthly Newsletter







# Be part of "Geo for All"

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# From the Editor

Dear members, readers,

The issue you are reading is the last issue of this year. Hopefully we have completed nine years of continuous presence and are entering the 10th year.

During these nine years, we changed our image, tune, partners, but not our mood. The mood for the presentation of OSGeo's GeoForAll action has always been high and will remain so. The Editorial Team of the Newsletter always tried to have the form ready at the beginning of each month out of respect for the members of the action but also because a serious Publication has this as the face of the Publication in the outside world. We have tried to keep this face as bright as possible, and I would like to take this opportunity to thank the members of the Editorial Team for their consistency. We will keep this consistency for as many years as we continue to be at the services of the Newsletter.

I wish you, personally and on behalf of the Team, a Good, Happy, Healthy Year, better than the one that is about to leave. Happy Holidays.

Nikos Lambrinos, Chief Editor

# 4. Conferences

#### Europe

#### **March 2024**

**1.** 20-24: <u>FAIR Digital Objects: From Theory to Practice</u>

Venue: Berlin, Germany.

#### **South America**

#### December 2024

**2.** 01-08: <u>FOSS4G</u> (stay tuned for more news in the future)

Venue: Belém, state of Pará, Brazil

#### Asia

#### December 2023

**3.** 4-5: The 2nd Ramon <u>International</u>
<u>Geospatial Intelligence</u> 360
Conference Geospatial Intelligence
for Sustainable and Resilient
Future

Venue: Tel-Aviv, Israel

#### **North America and Central America**

#### May 2024

**4.** 22-24: <u>38<sup>th</sup> Conference of Latin</u>

American Geography (CLAG)

Venue: Old San Juan, Puerto Rico











# **Editorial Board**

Please refer to the appropriate person according to the following table:				
Chief Editor	Nikos Lambrinos, Professor, Dept. of Primary Education, Aristotle University of Thessaloniki, Greece. President of the Hellenic digital earth Centre of Excellence <a href="mailto:labrinos@eled.auth.gr">labrinos@eled.auth.gr</a>	Oceania		
Co-editor	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	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	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 <a href="mailto:it-technologies@yandex.ru">it-technologies@yandex.ru</a>	Russia, Mongolia, China, Japan, S. Korea, Vietnam, Thailand, Malaysia, Laos, Myanmar, Cambodia, Singapore, Brunei, Indonesia, Philippines, Turkmenistan, Uzbekistan, Tajikistan and Kyrgyzstan.		
Co-editor	Rania Elsayed, Computers & Information Researcher, Division of Scientific Training & Continuous Studies, National Authority for Remote Sensing & Space Sciences, Cairo, Egypt.  ranyaalsayed@gmail.com	Africa		
Co-editor	Seraphim Alvanides, Reader (Geographical Information Science) Northumbria University, Newcastle NE1 8ST, United Kingdom. <a href="mailto:s.alvanides@gmail.com">s.alvanides@gmail.com</a>	Scandinavian countries, Denmark, Germany, Austria, Switzerland, UK, Ireland, Iceland		
Co-editor	Antoni Perez Navaro, Associate Professor at Universitat Oberta de Catalunya (UOC) Computer Sciences and Multimedia Department <a href="mailto:aperezn@uoc.edu">aperezn@uoc.edu</a>	Italy, Malta, Spain, Portugal, France, Belgium, The Netherlands, Luxemburg.		
Co-editor	Emma Strong Planner with Pueblo County, Colorado <a href="mailto:eestrong118@gmail.com">eestrong118@gmail.com</a>	North and Central America		
Co-editor	Sergio Acosta Y Lara, Departamento de Geomática Dirección, Nacional de Topografía, Ministerio de Transporte y Obras Públicas, URUGUAY sergio.acostaylara@mtop.gub.uy	South America		
Co-editor	Codrina Ilie, PhD student at the Technical University of Civil Engineering, Bucharest, Romania	The Balkans, Ukraine, Moldavia, Estonia, Lithuania, Belarus, Latvia, Hungary, Czech Republic, Slovakia		
Production Designer	Nikos Voudrislis, MSc, PhD in geography education.  nvoudris@gmail.com	Design and final formation of the newsletter		
	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	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: <a href="https://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-geocrowd">https://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-geocrowd</a>

➤ Website:

http://wiki.osgeo.org/wiki/Geocrowdsourcing CitizenScience FOSS4G

AgriGIS

Chairs: Didier Leibovici (U.K.) and Nobusuke Iwasaki (Japan)

➤ Mail list: <a href="https://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-agrigis">https://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-agrigis</a>

Website: <a href="http://wiki.osgeo.org/wiki/Agrigis">http://wiki.osgeo.org/wiki/Agrigis</a>

# **GeoForAll Regional Chairs and Contact Information**

#### **North America Region**

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

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
<a href="http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-africa">http://lists.osgeo.org/cgi-bin/mailman/listinfo/geoforall-africa</a>

Email: africa.gfa.chair@osgeo.org

#### Asia Region (including Australia)

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

Email: asia.gfa.chair@osgeo.org

#### **Europe Region**

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

Email: eu.gfa.chair@osgeo.org











## **GeoAmbassador Content table**

July 2016, Vol.2,	Prof. Georg Gartner, Vienna University of
no.7	Technology
Aug 2016, Vol.2,	Prof. Silvana Philippi Camboim, Federal
no.8	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,	Victoria Rautenbach, Centre of
no. 11	Geoinformation Science Univ. of Pretoria,
D : 2046 W.12	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,
March 2017, Vol.3	University of Colorado Denver, USA  Dr. Tuong Thuy Vu, School of Environmental
no.3	
1.0.0	and Geographical Sciences, University of Nottingham, Malaysia campus
April 2017, Vol.3	Michael P. Finn, U.S. Geological Survey
no.4	Whichael F. Fillin, O.S. Geological Survey
May 2017, Vol.3	Dr. Peter Mooney, Maynooth University, NASA
no.5	
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,	Luciene Stamato Delazari, Universidade
Vol.3 no.11	Federal do Paraná in Brazil
December 2017, Vol.3 no.12	Charlie Schweik, Univ. of Massachussets, USA
January 2018, Vol.4	Julia Wagemann, European Centre for
no.1	Medium-Range Weather Forecasts
February 2018,	Barend Köbben, Department of Geo-
Vol.4 no.2	Information ProcessingUniversity of Twente
March 2028, Vol.4 no.3	Kurt Menke, Birds Eye View
April 2018, Vol.4	Dr. Clous Rinner, Department of Geography
no.4	and Environmental Studies at Ryerson
	University, Toronto, Canada
June 2018, Vol.4,	Martin Landa, Department of Geomatics,
no.6	Faculty of Civil Engineering, Czech Technical
	University (CTU) in Prague

# Lab of the Month, Content table

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











#### 5. Webinars

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



### 7. Training programs

 GeoForAll educational materials have been transferred to our new web site. <u>GeoForAll</u> <u>educational inventory system, a place to search</u> and share educational materials

#### • Satellite Application Course for African Users

Start Date: Feb. 26, 2024 End Date: March 1, 2024

Country: Kenya City: Nairobi

Organizer: EUMETSAT

Host: Institute for Meteorological Training

Research

Language: English

Contact name: The Director, IMTR

Contact email: imtr.wmo.rtc.nairobi@gmail.com

#### • Satellite Application Course for African Users

Start Date: March 11, 2024 End Date: March 15, 2024

Country: South Africa

City: Pretoria

Organizer: EUMETSAT

Host: South African Weather SErvice

Language: English

Contact email: training@eumetsat.int

# 11. Free books, educational materials, etc.

 Visit the YouTube QGIS channel at https://www.youtube.com/channel/UCGS162t4hk

 OA0b35ucf1yng/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: Cartograhy 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

CSSTEAP: Center for Space Science & Technology

Education in Asia and the Pacific

**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

FDO: FAIR (Find, Access, Interoperate, and Reuse)

**Digital Objects** 

FOSS: Free and Open Source Software

FOSS4G: Free and Open Source Software For

Geospatial

GCP: Ground Control Point

GDAL: Geospatial Data Abstraction Library

GEO: Group on Earth Observations

GEO: Geosynchronous Earth Orbits

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** 

**GRACE: Gravity Recovery and Climate Experiment** 

(satellite program)

GRASPgfs: Geospatial Resource for Agricultural Species and Pests and Pathogens with workflow

integrated modeling to support Global Food

Security

GSoC: Google Summer of Code

HLPF: High Level Political Forum (of UN)

HOT: Humanitarian OpenStreetMap Team

HPC: high-performance computing











ICA: International Cartographic Association

ICIMOD – International Centre for Integrated

Mountain Development

ICSU-WDS: International Council for Science -

World Data System

IDE: Spatial Data Infrastructure

IFAD – International Fund for Agricultural

Development

INSPIRE: Infrastructure for Spatial Information in

Europe

IPCC – Intergovernmental Panel on Climate

Change

IPGH: Pan American Institute of Geography and

History

ISO: International Organization for

Standardization

ISPRS: International Society for Photogrammetry

and Remote Sensing

ISRO: Indian Space Research Organization

JAXA: Japan Aerospace Exploration Agency

KML: Keyhole Markup Language

LBS: Location-Based Service

LEO: Low Earth Orbits

LiDAR: Light Detection and Ranging

LOC: Local Organizing Committee

LOD: Level Of Detail

MEO: Medium Earth Orbits

MIL: Media and Information Literacy

MoU: Memorandum of Understanding

MSS: Multispectral Scanner

NAD: North American Datum

NARSS: National Authority for Remote Sensing

and Space Sciences of Egypt

NCSA: National Center for Supercomputing

**Applications** 

NDVI - Normalized Difference Vegetation Index

NDWI - Normalized Difference Water Index

NED: National Elevation Dataset

NEPAD: NEw Partnership for African

Development

NGA: National Geospatial Intelligence Agency

NHD: National Hydrologic Dataset

NIR - Near-Infrared

NLCD: National Land Cover Dataset

NOOSA: United Nations Office for Outer Space

**Affairs** 

NRSA: Indian National Remote Sensing Agency

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

PPGIS: Public Participation in Geographic

**Information Systems** 

PPSR: Public Participation in Scientific Research

**RBV: Return Beam Vidicon** 

RCMRD: Regional Centre for Mapping of

Resources for Development RDA: Research Data Alliance

ROSCOSMOS: Russian Federal Space Agency

ROSHYDROMET: Russian Federal Service for

Hydrometeorologyand Environmental Monitoring

RUFORUM: Regional Universities Forum for

capacity building in agriculture

SaaS: Software as a Service

SAR: Synthetic Aperture Radar

SDG: Sustainable Development Goal

SDI: Spatial Data Infrastructure

SIG: Geographic Information System

SIGTE: The GIS and Remote Sensing Service of the

University of Girona, Spain

SPIDER: open SPatial data Infrastructure eDucation

nEtwoRk











SQL: Structured Query Language

STISA 2024: Science Technology Innovation

Strategy for Africa

STSM: Short Term Scientific Missions

SWIR: Short Wave Infrared

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

VNIR: Visible Near Infrared

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** 

# 17. Ideas / Information

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

#### 2. From Dr Suchith Anand

Senior Adviser to Governments and International Organisations | Scientist | Al Ethics | Al Governance | Policy | Consultant in Data and Al Ethics | Global Citizen | SDG Volunteer and Advocate

FDO Implementation Summit 'FAIR Digital Objects: From Theory to Practice', Berlin, March 20-21, 2024.

Under the title 'FAIR Digital Objects: From Theory to Practice' this event will focus on plans and developments and will also discuss relevant policy aspects. It will be preceded by a training day on March 19th. A Call for Papers is open with a deadline of 15 December, and registration will be opened in late November 2023.

More details at <a href="https://fairdo.org/fdof-summit-2024/">https://fairdo.org/fdof-summit-2024/</a>

3. The <u>event</u>, 'The Ethics of AI and Data in Higher Education', took place on 10 November 2023 and was hosted by the Association of African Universities (<u>AAU</u>), the University of Nottingham, and the Ethical Data Initiative (<u>EDI</u>). It was held as part of celebrations to mark Africa Universities' Day and the AAU's 56th anniversary - Focusing on Artificial Intelligence in Higher Education.

The three organisations have begun the <u>Campaign for</u> <u>Data Ethics in Education</u>, to advocate for the inclusion of data ethics in all data science and research-based higher education courses, to train the next generation of data and research professionals about their legal and ethical responsibilities surrounding the use, reuse, and sharing of data.

#### More details at

https://ethicaldatainitiative.org/campaign-for-dataethics-in-education/

