Volume 8, No. 08

August 2022

GeoForAll

Monthly Newsletter

Be part of "Geo for All"

Table of Contents

4. Conferences

NORTH AMERICA

October 2022

1. 2-6 October: GIS-Pro 2022 URISA's 60th Anniversary Conference

Venue: Boise, ID, USA

2. 14-16 October: National Council for Geographic Education (NCGE)

Venue: Minneapolis, MN, USA

EUROPE

August 2022

3. 19-21 August: State of the Map 2022. OpenStreetMap Conference

Venue: Florence, Italy

4. 22-28 August: FOSS4G 2022 International Conference

Venue: Firenze (Florence), Italy

5. 30 August – 2 September: RGS-IBG Annual International Conference

Venue: Newcastle University, UK

October 2022

6. 26-28 October: XII International Congress of Geomatics and Earth Sciences, TOPCART, 2022

Venue: Seville, Spain

ASIA

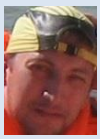
October 2022

7. 3-7 October: The Asian Conference on Remote Sensing – 2022 (ACRS-2022)

Venue: Ulaanbaatar, Mongolia (online)

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 labrinos@eled.auth.gr	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 it-technologies@yandex.ru	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. s.alvanides@gmail.com	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 aperezn@uoc.edu	Italy, Malta, Spain, Portugal, France, Belgium, The Netherlands, Luxemburg.
Co-editor 	Emma Strong Planner with Pueblo County, Colorado eestrong118@gmail.com	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: 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 ProcessingUniversity 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 Colarado 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, Bangkog, 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/ and https://www.gislounge.com/self-guided-qgis-courses/?utm_medium=email&utm_campaign=GISNL-Aug-27-2020&utm_source=YMLP

6. Courses

- ARSET – Evaluating Ecosystem Services with Remote Sensing
  Start date: August 23
  End date: August 30
  Organizer: NASA Applied Sciences
  Format/Training type: Online course / workshop
  Language: English
  Contact name: Sarah Cutshall
  Contact email: sarah.cutshall@nasa.gov
  Link: https://appliedsciences.nasa.gov/join-mission/training/english/arset-evaluating-ecosystem-services-remote-sensing

- How to explore the new Sentinel-3 Data (III) - Data Access Services
  Start date: September 08, 2022
  End date: September 08, 2022
  Organizer: EUMETSAT
  Format/Training type: Online Course
  Language: English
  Contact name: EUMETSAT User Helpdesk
  Contact email: OPS@eumetsat.int
  Link: https://training.eumetsat.int/course/view.php?id=436

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

- "The Applied Sciences team invites you to NASA's Earth Science Applications Week! Please join us August 9–11th to watch and learn how data driven Earth observations are used to help make our world a better place! The week will include project highlights, guest speakers, a celebration of 50 years of Landsat, and opportunities to get involved. There will be sessions from 1:00–4:00pm EDT each day. Topics range from health and air quality, environmental justice, water, agriculture, and more. Help us by registering yourself and encourage your colleagues to register on the event webpage."

8. Key Research Publications

- "Global Community Guidelines for Documenting, Sharing, and Reusing Quality Information of Individual Digital Datasets" available at https://datascience.codata.org/articles/10.5334/dsj-2022-008/

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.

- "Land Use Cover Datasets and Validation Tools Validation Practices with QGIS", (2022). Editors: David García-Álvarez, María Teresa Camacho Olmedo, Martin Paegelow, Jean François Mas. Springer Link
  Details at https://link.springer.com/book/10.1007/978-3-030-90998-7

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

AGI: Ambient Geographic Information

AGS: American Geographical Society

AGU: American Geophysical Union

AI: Artificial Intelligence

AM/FM: Automated Mapping/Facilities Management

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

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

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

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

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

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

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 Enviromental 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 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. Call for article submission

The International Journal for Participatory Mapping (IJPM) Editorial Board (journal@pmappingsociety.org) has identified special themes for the first four issues which will cover the first two years of the publication. Papers can be submitted for peer review anytime before the deadlines outlined in the theme calls. You need to indicate your intent to submit a paper by email to the guest editor of a special issue with the title of the paper, authors, and abstract. The full manuscript, as a word document, will be uploaded to IJPM Dashboard.

Issue 1 - Unravelling the history, theory, scope, and politics of participatory mapping (submit by June 1st, 2022)

Issue 2 - Methods and Practice of Participatory Mapping (submit by December 1st, 2022)

Issue 3-Indigenous and Rural Community Mapping (submit by April 2023)

Issue 4 - The Impact of Participatory Mapping on Urban Planning and Development (submit by August 2023)

If you're unsure if your topic fits within the scope of the journal, please email journal@pmappingsociety.org.

3. From Sergio Acosta Y Lara (sergio.acostaylara@mtop.gub.uy) Departamento de Geomática, Ministerio de Transporte y Obras Públicas, URUGUAY

This year, gvSig Batovi team celebrates ten years of the gvSig Batovi initiative (adaptation of the free GIS gvSIG to be used as a teaching tool in Secondary Education in Uruguay). This time the course-contest project with students is international with the participation of Mexico, Colombia, and Uruguay. There is a part of training (course) for Secondary teachers, and another of competition (contest) between groups of students led by one or more teachers. The training is done between 3 institutions: the Ministry of Transport and Public Works, the General Administration of Secondary Education, and Ceibal (https://www.ceibal.edu.uy/en/institucional). In the last 3 years (2019, 2021, and 2022) there were 78, 106, and 329 teachers registered, respectively. The organizers requested extra funding from OSGeo to cover costs for foreign participation (approved for OSGeo's 2022 budget).

4. From YouthMappers Newsletter 2nd Quarterly 2022

"Last year the YouthMappers Academy launched with 6 courses that formed the introductory track. Now the YouthMappers Academy is formed of 12 courses, with the advanced-level track consisting of 6 courses to elevate YouthMappers members' technical skills, community participation, and project management know-how. The courses include 1) Introduction to Mapping with JOSM, 2) Advanced JOSM, 3) Data Management in OSM, 4) Gender Perspectives, 5) Planning a Field Project, and 6) Field Survey Development. Courses 7 and 8 focus on advanced editing skills and data validation. Courses 9 through 12 address theories and techniques to help YouthMappers students with designing, planning, and implementing fieldwork campaigns. Read more details about each course here".

Join the YouthMappers website to find out News about mapping and mappers.

5. GIS4Schools (from the website). Leading partner: Euronike (Italy). Erasmus+ project.

The Gis4Schools project is a strategic partnership in the field of School Education aimed at introducing new methodologies based on the use of GIS technologies applied to the impact of climate change on the environment in order to improve STEAM's learning by pupils.

The project "GIS4Schools" addresses, on a transnational basis, digital skills (along with the underlying technological elements) and climate change awareness and understanding (along with the underlying scientific elements) for secondary schools pupils and teachers supported by experts guidance.

More specifically, the GIS4Schools project contributes to increasing the interest of secondary schools' pupils in STEAM disciplines. It enhances their level of knowledge and capabilities by involving them in the co-creation of new methodologies and replicable digital tools using and exploiting Earth Observation (EO) and other data to develop GIS products in order to address the impact of climate change on the local environment. To improve STEAM's learning, it is fundamental "to find better ways to nurture the curiosity and cognitive resources of children" by linking science with other subjects and disciplines. The purpose is to enable students to better understand and tackle the environmental and societal challenges, even at the local level. In this approach, GIS is a precious enabling tool for the engagement of pupils in analysis related to their environment and community.

The following are some useful materials produced during the project:

GIS4Schools Training Package: Download the GIS4Schools Handbook

Have a look at the open-access archive on Zenodo: https://bit.ly/3tsPVQL/ https://github.com/GIS4Schools

Check the free lessons from the Politecnico di Milano on Thinkific: https://bit.ly/3O9Phzk