



GeoForAll

Monthly Newsletter



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Be part of "Geo for All"

4. Conferences

EUROPE

July 2021

1. 6-8 July: [12th International Symposium on Digital Earth](#) "Digital Earth for Sustainable Societies"

Venue: Faculty of Natural Sciences (Naturwissenschaftliche Fakultät) of the University of Salzburg, Salzburg, Austria



SOUTH AMERICA

September – October 2021

2. 27 Sept – 02 Oct.: [FOSS4G](#)

Venue: The Buenos Aires Convention Center (CEC) and the UBA Law School of the University of Buenos Aires, Buenos Aires, Argentina

NORTH AMERICA

November 2021

3. 19-21 Nov.: [106th NCGE Annual Conference](#)

Venue: Minneapolis Convention Center, MN, USA

Organizer: National Council for Geographic Education

ASIA

4. October 2021

14-17 October: [3rd International Congress on Geographical Education \(ICGE-2021\)](#)

Venue: Online

Organizer: Sivas Cumhuriyet University, Sivas, Turkey

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



Editorial Board

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

<p>Chief Editor</p> 	<p>Nikos Lambrinos, Professor, Dept. of Primary Education, Aristotle University of Thessaloniki, Greece. President of the Hellenic digital earth Centre of Excellence labrinos@eled.auth.gr</p>	Oceania
<p>Co-editor</p> 	<p>Rizwan Bulbul, Assistant Professor of GIScience Head of Geospatial Research and Education Lab Department of Space Science, Institute of Space Technology, Islamabad, Pakistan bulbul@grel.ist.edu.pk</p>	India, Sri Lanka, Pakistan, Afghanistan, Nepal, Burma, Iran, Iraq, Jordan, Syria, Israel, Lebanon, Turkey, Saudi Arabia, Oman, Yemen, United Arab Emirates, Kuwait and Islands of S. Pacific.
<p>Co-editors</p> 	<p>Pavel Kikin, Senior Lecturer "Department of applied informatics and IT", Siberian State Univer. of Geosystems and Technologies Alexey Kolesnikov, Senior Lecturer "Department of cartography and GIS", Siberian State Univer. of Geosystems and Technologies it-technologies@yandex.ru</p>	Russia, Mongolia, China, Japan, S. Korea, Vietnam, Thailand, Malaysia, Laos, Myanmar, Cambodia, Singapore, Brunei, Indonesia, Philippines, Turkmenistan, Uzbekistan, Tajikistan and Kyrgyzstan.
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<p>Co-editor</p> 	<p>Antoni Perez Navaro, Associate Professor at Universitat Oberta de Catalunya (UOC) Computer Sciences and Multimedia Department aperezn@uoc.edu</p>	Italy, Malta, Spain, Portugal, France, Belgium, The Netherlands, Luxemburg.
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	<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 2018, 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



continued from page 1

- CEOS Jupyter Notebooks for Capacity Development Webinar - Registration Open.
Dear members, you are invited to register for the upcoming [Jupyter Notebooks for Capacity Development Webinar](#)
The CEOS [Working Group on Capacity Building and Data Democracy](#) and the [Working Group on Information Systems and Services](#) will be running a joint webinar on Jupyter notebooks for Capacity Development. The aim of this webinar is to introduce space agencies and environmental organisations worldwide to Jupyter Notebooks and take a tour of emerging services from CEOS agencies and their applications. The speakers intend to illustrate how they can be used to support capacity development and the exploitation of Earth Observation data by a broad range of users. There will be two sessions via zoom to allow for global attendance.
Session 1: Wednesday 21st July 14:00 – 16:20 UTC – [register here](#)
Session 2: Thursday 22nd July 02:00 – 04:20 UTC – [register here](#)



6. Courses

- Geospatial Applications for Disaster Risk Management.
Start Date: May 15, 2021
End Date: August 15, 2021
Organizer: NOOSA (United Nations Office for Outer Space Affairs) & CSSTEAP (Center for Space Science & Technology Education in Asia and the Pacific)
Language: English

Contact link:

<https://isat.iirs.gov.in/mooc.php>

Details at:

https://isat.iirs.gov.in/courseDocs27/MOOC_Brochure.pdf

- Management of Observational Information
Start Date: July 12, 2021
End Date: July 23, 2021
Organizer: Gustavo Lopez (online)
Host: RTC-SMN Argentina
Language: Spanish
Targeted Audience: personnel performing meteorological observations, meteorological observer, aeronautical meteorological observer.
Contact email: Marines Campos marinescampos27@gmail.com
Details at:
<https://docs.google.com/forms/d/e/1FAIpQLSeWRJjoKWzxe8gE-3Tq0XWVH12aMrZJowaUNVy9qPrmdLxSng/vi/wform>
- Open Data Science Europe Workshop 2021: Spatiotemporal modeling of European Landscapes and Climate 2000–2020: using EO and Machine Learning
Start date: Sept. 6, 2021
End date: Sept. 10, 2021
Host: Wageningen, The Netherlands
Format/ Training type: Classroom course, Online course, workshop.
Language: English
Contact email: support@opendatascience.eu
Link: <https://opendatascience.eu/>
Thematic Area: Climate, Urban Development

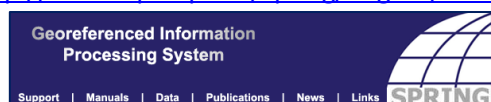


7. Training programs

- GeoForAll educational materials have been transferred to our new web site. [GeoForAll educational inventory system, a place to search and share educational materials](#)
- Open Data Science Workshop is a 5-day event with the first 2 days of training sessions in processing data cubes and using machine learning to extract content, and the following 3 days with oral talks and keynotes. The event will be hybrid, online via Zoom webinars and streamed live on the OpenGeoHub YouTube channel [<https://www.youtube.com/channel/UC6HFFyiv4zEYJlQMIXemWA>]. The special theme of the workshop is: Spatiotemporal Modeling of European Landscapes and Climate 2000-2020: using EO and machine learning.

11. Free books, educational materials, etc.

- Paulo Raposo (Assistant Professor of Geovisualization, GIP Department, Faculty ITC, University of Twente) has shared a new tutorial about Basic LiDAR Data Handling using PDAL, available here: https://paulojraposo.github.io/pages/PDAL_tutorial.html
- **SPRING** is a state-of-the-art GIS and remote sensing image processing system with an object-oriented data model which provides for the integration of raster and vector data representations in a single environment. For more information and how to download the software please go to <http://www.dpi.inpe.br/spring/english/index.html>



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

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



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 Zhe (Sarina) Zhang: *Computational Urban Science journal welcomes original papers related to big data and urban studies!* *Computational Urban Science* publishes rigorously peer-reviewed and high-quality original articles and reviews that focus on the intersection of computational sciences and urban sciences in building intelligent and resilient cities. The journal aims to introduce the latest results in urban computing and its applications, examine both the spatial and social dimensions of urban networks and built environment, promote the cooperation between computational disciplines and the urban domain sciences, and build a bridge for scientific communication. This journal will focus on the development of research frameworks, theories, methods, and good case studies of tackling key urban research challenges in the mobile and big data era. Sample topics include but not limited to:

1. Agent-based models of social interactions
2. Data sharing and dissemination in urban computing research
3. Large-scale Social activities in physical and virtual spaces
4. Multi-scale urban modeling
5. Privacy issues in mobile and big data and possible solutions
6. Space-time data models for urban computing
7. Spatiotemporal social network analysis
8. Trajectory data mining, analysis, and visualization
9. Visualization and computation of big health data

- Provides a unique focus on the intersection of computational science and urban science
- Delivers a fast review for authors, with a first decision on average within 4 weeks
- Disseminates content globally through journal website and social media platforms
- APC fully covered/sponsored by Jiangxi Normal University

Website: <https://www.springer.com/journal/43762>



3. From Cristina Vrînceanu (Cristina.vrinceanu@nottingham.ac.uk): You are invited to submit a proposal for the 2021 UN OSGeo Educational Challenge.

The Challenge supports the objectives of the OSGeo UN Committee i.e. promoting the development and use of open source software that meets the UN needs and supports the aims of the UN.

Two challenges are envisioned in this framework:

1. Training on Satellite Data Analysis and Machine Learning with QGIS (refer as Satellite_QGIS)
 2. Workshop material for pgRouting
- The full description, criteria and benefits of the 2021 UN OSGeo Educational Challenge is available [here](#).

For participating, please fill the required application for proposals form included in the Proposals section of the description.



The deadline for submitting applications is 14th of June 2021.

Any additional queries regarding this topic can be addressed to un.osgeo@gmail.com.

4. By Suchith Anand.

Uniting the world to tackle climate change.

Uniting the world behind science.

TRANSFORM21 is managed by the International Science Council. The ISC is a non-governmental organization with a unique global membership that brings together 40 international scientific Unions and Associations and over 140 national and regional scientific organizations including Academies and Research Councils.

The vision of the Council is to advance science as a global public good. Scientific knowledge, data, and expertise must be universally accessible and its benefits universally shared. The practice of science must be inclusive and equitable, also in opportunities for scientific education and capacity development. Details at <https://transform21.org>.



5. From Antoni Pérez Navarro (Universitat Oberta de Catalunya - aperezn@uoc.edu)

Edusat (www.edu-sat.com) is an educational resource for exploring the Earth through satellite images. The platform allows dissemination and understanding of the science of remote sensing to a non-specialized audience, whether high school or university teachers, as well as the students themselves. The tool provides everyone with a

resource that shows the potential of satellite imagery and its use from case studies for the analysis of natural events and socio-environmental issues.

From the resources offered by Edusat, students, teachers, researchers, and the general public will be able to learn to identify, control, and analyse the transformations in the earth's surface produced by global environmental change: from the deforestation of the Amazon to the impact of the storm Gloria or the retreat of the glacier on the Aneto mountain in the Pyrenees. From different practical cases, users will be able to identify these natural phenomena such as forest fires, glacier melting, deforestation, or urban growth while learning to explore and process satellite images to obtain results.

The Edusat website is now available in three languages (Catalan, Spanish, and English) and has been created by Geographical Information Systems and Remote Sensing Service (SIGTE) with the support of Cordinet as well as the Institute of the Environment and the Department of the University of Girona.

