



UNITED NATIONS
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Education & Capacity Building

TRAINING

GIS AND MAPPING

When?

6x 2h sessions, 21 Mar – 1 Apr (exact timing & dates tbc)

Where?

Room Ü9, “Geozentrum”, University of Bonn, Meckenheimer Allee 176, 53115 Bonn

Who?

Mostapha Harb (former UNU-EHS), **David Daou** (UNU-EHS), **Martin Hilljegerdes** (UN-SPIDER)

Target group

Students, junior staff

Registration

[Click HERE](#) to register **by 14 Feb**

Description

Advanced GIS and Mapping course including the use of GIS tools (specifically, QGIS and Python software), analytical methods, and remote sensing. Providing an overview of web-based GIS platforms and methodologies to develop information products for floods and droughts. Support will be provided to students with very little or no knowledge of GIS in order to be able to take this training easily.

Learning Outcomes:

- Understanding of concepts on the GIS and remote sensing fundamentals
- Understanding of techniques and functionalities of GIS software to produce geographic information
- Identifying Earth observation data sources, software, and methodologies for monitoring natural hazards
- Producing underlying maps using GIS software and web-based systems with UN-SPIDER Recommended Practices on flood and drought mapping
- Understanding the use of Python in GIS context (introduction)



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Equipment

Participants will be provided computers in the seminar room which include access to QGIS.

Covid-19 restrictions apply!

To participate in the respective course days, attendees must have been tested (test result no older than 24 hours), vaccinated, or have recovered (no longer than three months ago) from the coronavirus («3G rule»). In line with the regulations, also, it will be mandatory to wear face masks (FFP2 masks or medical masks) throughout the seminar days.

TRAINERS



DAVID DAOU

Dr Daou has been a researcher for the past 14 years, during which he worked with top European institutions, such as the Joint Research Centre in Ispra (Province of Varese, Italy) and the European Space Agency, the Dutch Meteorological Institute, the Canadian Space Agency, European Lidar Network, Environment and Climate Change Canada. Additionally, he worked as an expert to evaluate H2020 projects for the European Commission.

Besides his proficient skills in science, including programming skills, analyzing data and statistics daily basis usage, Dr Daou also has a very good experience in management, as well as expertise in writing reports for policy makers and publishing papers.



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MOSTAPHA HARB

Dr Mostapha Harb is a former UNU-EHS researcher in the Vulnerability Assessment, Risk Management & Adaptive Planning Section (VARMAP). He has a background in physics with a master's in risk and emergency management and holds a Ph.D. in Telecommunication and Remote Sensing Engineering from the University of Pavia, Italy. His main research interests focus on simulating urban growth and land cover dynamics, which help in the assessment of present and future exposure to natural and human-made hazards.



MARTIN HILLJGERDES

Martin Hilljegerdes is an Associate Information Management and Media Officer at the United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER), where he oversees the programme's communications and knowledge management activities. Before joining the UN through the Junior Professional Officer (JPO) Programme, Martin worked at the German Federal Office of Civil Protection and Disaster Assistance (BBK). He holds a M.Sc. degree in Cartography from the Technical University of Munich (TUM) and a B.Sc. degree in Geography from the University of Bonn.