

Mapping flooded territories. Brazil 2024

Workshop Series: Remote Sensing and GIS applied to international cooperation.



UNIVERSIDAD
POLITÉCNICA
DE MADRID

HOST:



WHEN:

10- 12 junio 2024
9 a 14 h (Madrid time)

WHERE:

ETSI Montes, Forestal y del
Medio Natural. Edif. Forestales.
Aula de Proyectos, or

VIA ZOOM

INSCRIPTION:
free registration

CONTACT:

mariajesus.garcia.garcia
@upm.es

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activity
1 ECTS

FRAMEWORK

GIS & remote sensing are powerful tools for monitoring large areas. Delimiting territories affected by a catastrophe and quantifying the damage to forests, farmland, and buildings is the first step in recovery and decision-making. In tropical areas, clouds prevent optical sensors good performance, however, radar sensor is not affected and is very effective in describing flooded areas.

GOALS

Obtain cartography of the territories affected by the recent floods suffered by Brazil in 2024, making said information publicly available through [Waterproofing Data](#) Project.

PROGRAM & SHEDULLE

1. Introduction & presentation of the Waterproofing Data project (Day 1 - 0.5 h).
2. Basis of remote sensing with radar images (Day 1 - 2.5 h).
3. Getting radar images of the affected areas of Brazil. Existing repositories. Use of SNAP (Day 1 - 2.5 h).
4. Preparation and analysis of radar images (Day 2 - 2.5 h)
5. Flood mapping in Brazil, according to date, with images already downloaded and prepared. (Day 2 & 3 - 3.5 hours).
6. Layer debugging and preparation to include the data in the Waterproofing Data project (Day 3 - 2.5 h).
7. (off-classroom) Team work carry out by 3/4 people. (Day 1 to 3 - 14 h)

