

PhD Course - XXXVI cycle - University of Milano Bicocca Curriculum in Terrestrial and Marine Environmental Sciences

Spatial Variability of Environmental Characteristics and Mapping Methodologies

Chiara Ferré and Roberto Comolli



PROGRAM 14-16 June 2021 (online lessons using WEBEX platform)

Monday 14

9:30-12:30

- Spatial variability of environmental variables: causes (anthropic and natural) and effects.
- Introduction to spatial data processing: methods of assessing and mapping environmental variability.

Tuesday 15

9:30-12:30

- Basic concepts of univariate and multivariate geostatistics.

14:30-17:30

- Computer session on geostatistics: variogram modelling and production of thematic maps of soil parameters.

For PC session will be used ISATIS.Neo.

Wednesday 16

9:30-12:30

- Basic concepts of geomorphometry.
- Case study on soil erosion mapping using geomorphometric variables and discriminant analysis.

14:30-17:30

- Computer session on geomorphometry: deriving of geomorphometric variables from DEM and production of thematic maps of soil parameters.

For PC session will be used QGIS, SAGA and MATLAB.