

Project Metadata Form

When contributing data to ReSurveyEurope, please fill in this form for each resurvey project and send it to Ilona Knollová (ikuzel@sci.muni.cz) together with the database. A resurvey project is understood as repeated sampling of a certain type of vegetation in a certain study area using specific methods.

- PROJECT NAME (identical with the Resurvey Project name given in the database):

Long-term monitoring of plant diversity data in the “Montagna di Torricchio” Strict Nature Reserve, Italy

- FULL PROJECT NAME (use if the full project name is longer than used in the database):

Long-term monitoring of plant diversity data in the “Montagna di Torricchio” Strict Nature Reserve, Italy

- REFERENCE (publication or URL or DOI of the dataset if published online):

<https://doi.org/10.1016/j.dib.2025.111355>

- DATA OWNER: person(s), institution(s):

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- CONTACT E-MAIL:

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- METHODS (description of sampling design and methods):

Information about presences and abundances of vascular plant species was collected following a probabilistic sampling scheme providing a final design with multiple nested scale sampling units: 10,000 m² (macroplot), 100 m² (the main unit, plot) and 1 m² (subplot). For the selection of sampling sites, the Regional Technical Maps 325010 (Marche Region - 1:10,000) was originally georeferenced through the UTM (ED50) coordinates. The map was divided into 500 m × 500 m cells covering the entire Nature Reserve, and one macroplot of 100 m × 100 m was randomly selected within each cell. Each macroplot was divided in four quadrants of 2500 m², for each quadrant a point was randomly selected. Thus, a final cluster of four random points was generated within each single macroplot, each point was identified on the field as the

SW vertex of the corresponding 10 m × 10 m plot. Only the nine clusters fully included in the Nature Reserve were considered, resulting in 36 plots; however, one of them was not considered because of problems with plot identification in the field, resulting in a total of 35 plots sampled. Furthermore, inside each plot, four 1 m × 1 m subplots were preferentially selected by observers with the criterion of avoiding spatial overlap with the subplots selected in the previous years.

- ENVIRONMENTAL DATA (list of environmental data measured):

Longitude, latitude, altitude, slope aspect, slope angle, habitat description, habitat directive code

- MANIPULATED PLOTS (description of the treatment if the plots were manipulated, e.g. mowing twice a year, fertilizing by NPK once a year, post-fire succession)

None

Camerino, 19/05/2025

Marco Cervellini