

Geomorphology and geoheritage in the Piana Crixia Natural Park (Liguria, Italy)

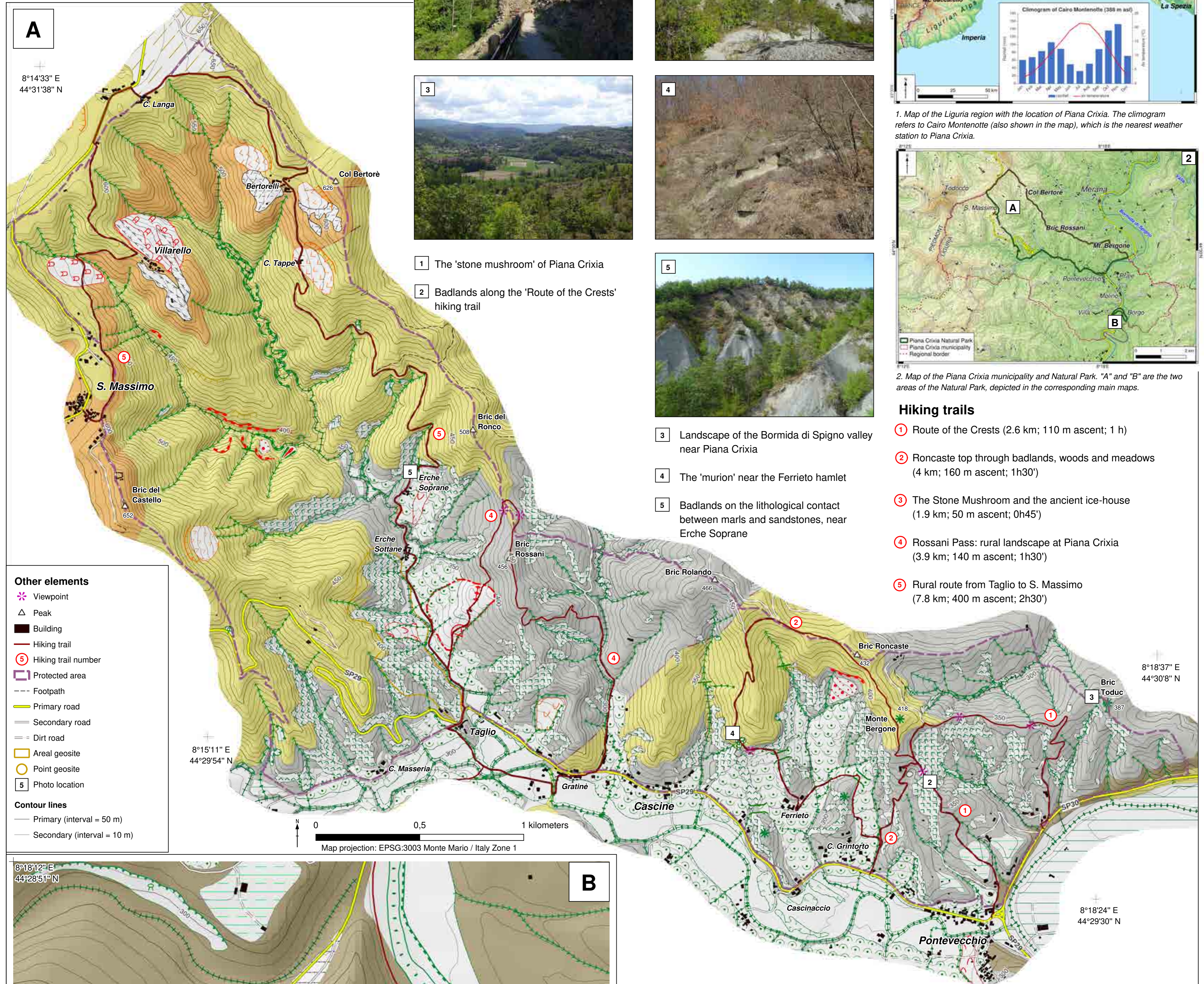
A. Ferrando¹, A. Bosino², E. Bonino³, P. Coratza⁴, F. Faccini¹

¹ Department of Earth, Environment and Life Science, University of Genoa, Italy. E-mail: andrea.ferrando@edu.unige.it

² Department of Environment and Earth Science, University of Milano-Bicocca, Italy.

³ Esri BeLux, Belgium.

⁴ Department of Chemical and Earth Science, University of Modena and Reggio-Emilia, Italy.



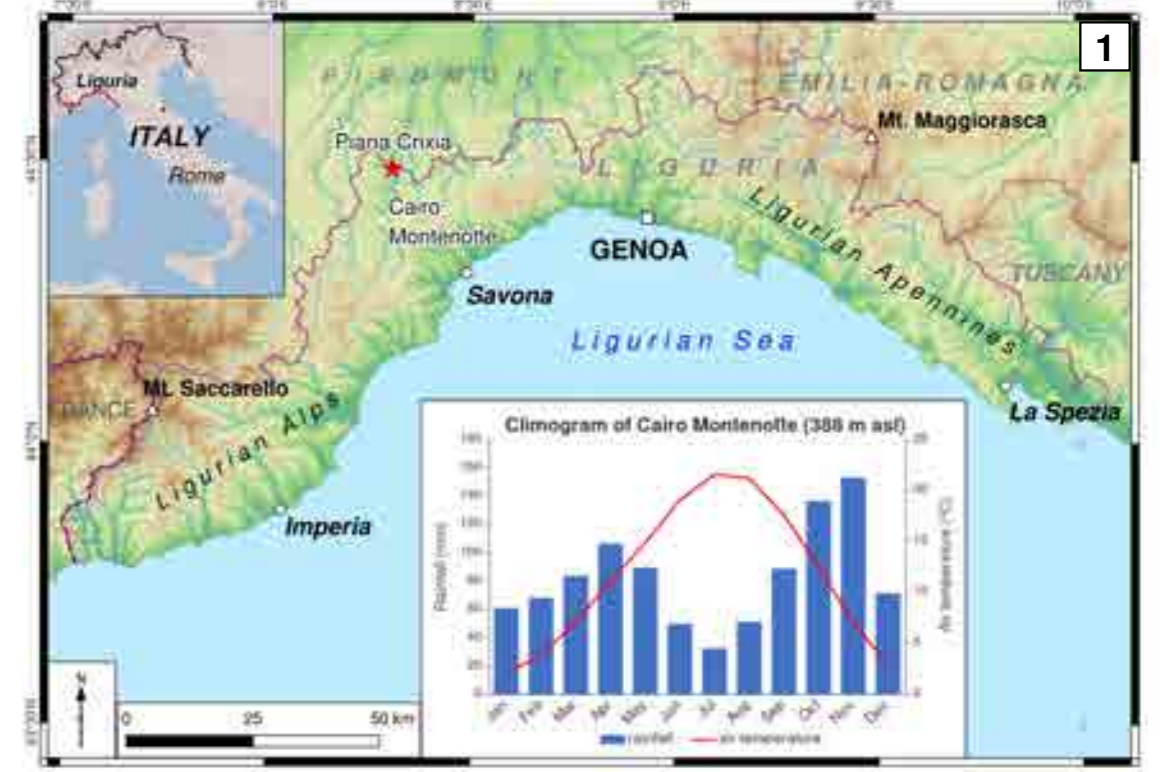
1 The 'stone mushroom' of Piana Crixia

2 Badlands along the 'Route of the Crests' hiking trail

3 Landscape of the Bormida di Spigno valley near Piana Crixia

4 The 'muriion' near the Ferrieto hamlet

5 Badlands on the lithological contact between marls and sandstones, near Erche Soprane



1. Map of the Liguria region with the location of Piana Crixia. The climogram refers to Cairo Montenotte (also shown in the map), which is the nearest weather station to Piana Crixia.



2. Map of the Piana Crixia municipality and Natural Park. "A" and "B" are the two areas of the Natural Park, depicted in the corresponding main maps.

Hiking trails

- 1 Route of the Crests (2.6 km; 110 m ascent; 1 h)
- 2 Roncaste top through badlands, woods and meadows (4 km; 160 m ascent; 1h30')
- 3 The Stone Mushroom and the ancient ice-house (1.9 km; 50 m ascent; 0h45')
- 4 Rossani Pass: rural landscape at Piana Crixia (3.9 km; 140 m ascent; 1h30')
- 5 Rural route from Taglio to S. Massimo (7.8 km; 400 m ascent; 2h30')

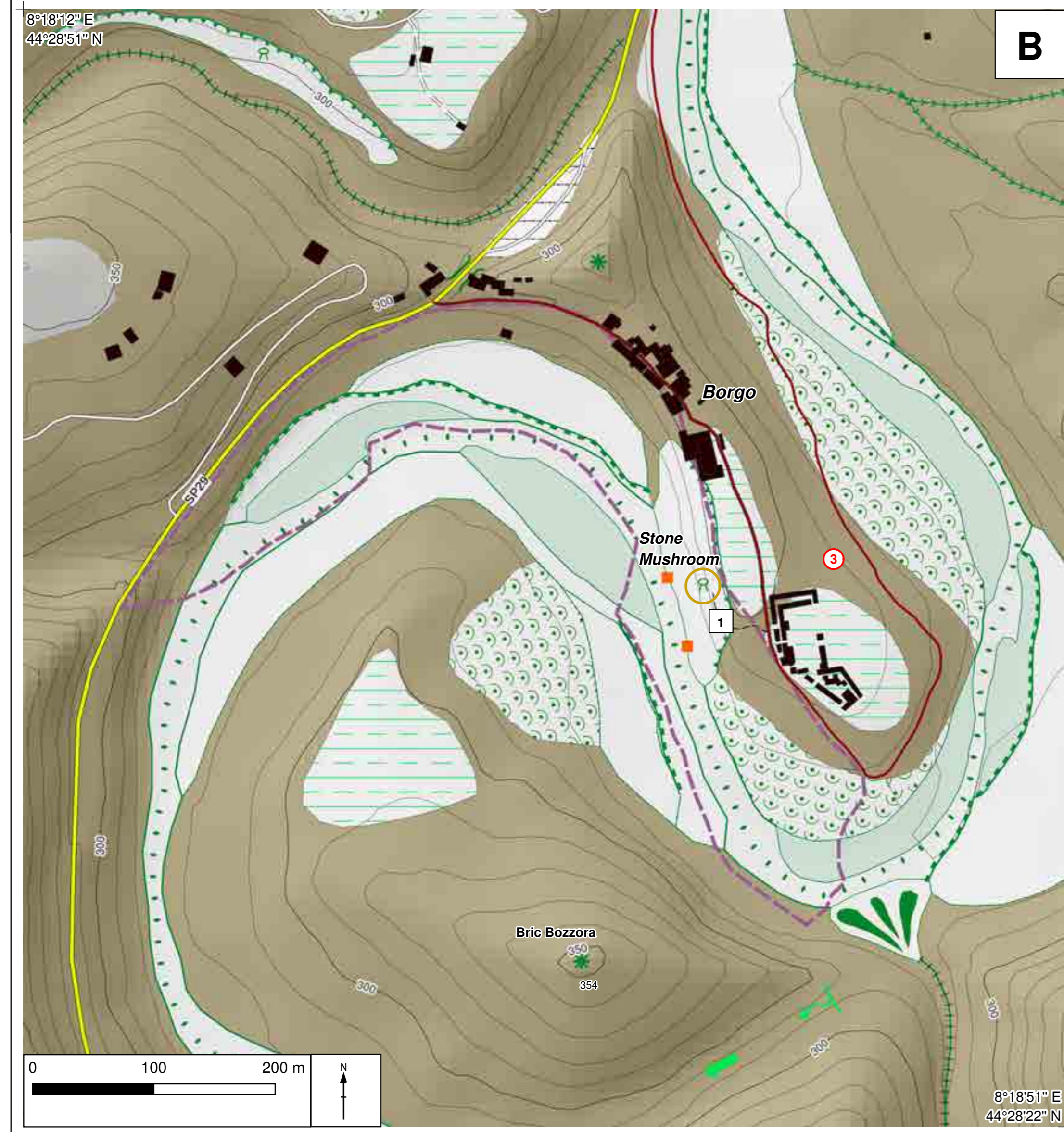
Other elements

- Viewpoint
- Peak
- Building
- Hiking trail
- Hiking trail number
- Protected area
- Footpath
- Primary road
- Secondary road
- Dirt road
- Areal geosite
- Point geosite
- Photo location

Contour lines

- Primary (interval = 50 m)
- Secondary (interval = 10 m)

Map projection: EPSG:3003 Monte Mario / Italy Zone 1



Geomorphology

Fluvial and runoff landforms

- Active: Peak, Saddle, Surface affected by rill-interrill erosion, Earth pyramids, Surface affected by badlands, Gully, Scarp due to denudation, V-shaped small valley, Beheaded valley, Hanging valley step, Fluvial erosion scarp, Fluvial channel on bedrock, Fluvial channel on alluvial deposits (areal feature), Fluvial channel on alluvial deposits (linear feature), Semi-alluvial fluvial channel, Floodplain, Alluvial plain and recent terraces, Fluvial terrace surface, Alluvial fan, Fan due to fluvial processes and debris flows, Colluvial talus, Fluvial bar, Paleo-flow direction
- Inactive: Peak, Saddle, Surface affected by rill-interrill erosion, Earth pyramids, Surface affected by badlands, Gully, Scarp due to denudation, V-shaped small valley, Beheaded valley, Hanging valley step, Fluvial erosion scarp, Fluvial channel on bedrock, Fluvial channel on alluvial deposits (areal feature), Fluvial channel on alluvial deposits (linear feature), Semi-alluvial fluvial channel, Floodplain, Alluvial plain and recent terraces, Fluvial terrace surface, Alluvial fan, Fan due to fluvial processes and debris flows, Colluvial talus, Fluvial bar, Paleo-flow direction

Litho-structural landforms

- Selective structural scarp
- Strike slope

Gravity-induced slope landforms

- Active: Rock wall affected by fall and toppling, Rotational/translational landslide scarp, Rotational landslide body (point feature), Rotational landslide body, Translational landslide body, Earth/mud flow body, Rock fall, Undifferentiated landslide body, Deep-seated gravitational slope deformation (DSGSD), DSGSD trench, Talus fed by rock falls, toppling and tumbling, Isolated fallen block
- Inactive: Rock wall affected by fall and toppling, Rotational/translational landslide scarp, Rotational landslide body (point feature), Rotational landslide body, Translational landslide body, Earth/mud flow body, Rock fall, Undifferentiated landslide body, Deep-seated gravitational slope deformation (DSGSD), DSGSD trench, Talus fed by rock falls, toppling and tumbling, Isolated fallen block

Anthropogenic landforms

- Embankment
- Excavation surface
- Remodeled surface for agriculture
- Saddle
- Terraced slope
- Reservoir

Bedrock lithology and tectonic elements

- Conglomerates
- Marls
- Sandstones
- Siltites
- Fault