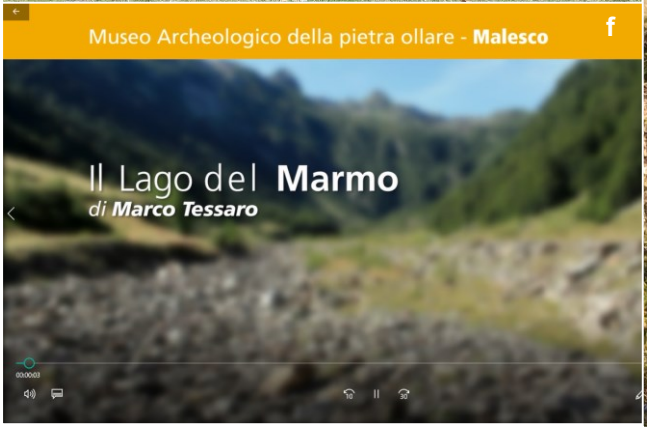
Supplementary File 4 – Images from the Sesia Val Grande UNESCO Geopark taken along the most representative geotrails, with specific views on geosites and off-site geoheritage

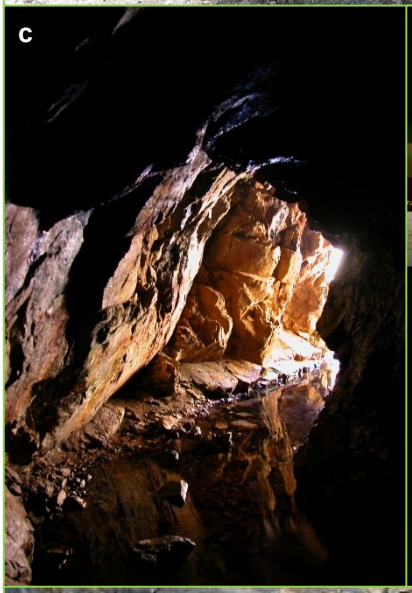



a
crosta continentale
moho
mantello
b
TABLE II
c
P. Rossola
Proman
Austroalpino
Sudalpino
d
e
Un paesaggio geologico
La pietra si fa storia
f
Forma e abito dei cristalli
Minerali delle pegmatiti
g
PARCO NAZIONALE
ValGrande
Il percorso geologico di Vogogna
di Marco Tessaro
h
i
l
Monte Bavarione
Gneiss Minuti
Ortogneiss flaser
Ortogneiss con filone mafico
Gneiss Ceneri
A
B
C
D
E
d
Passo Folungo

TABLE III


a


b


c


d


e

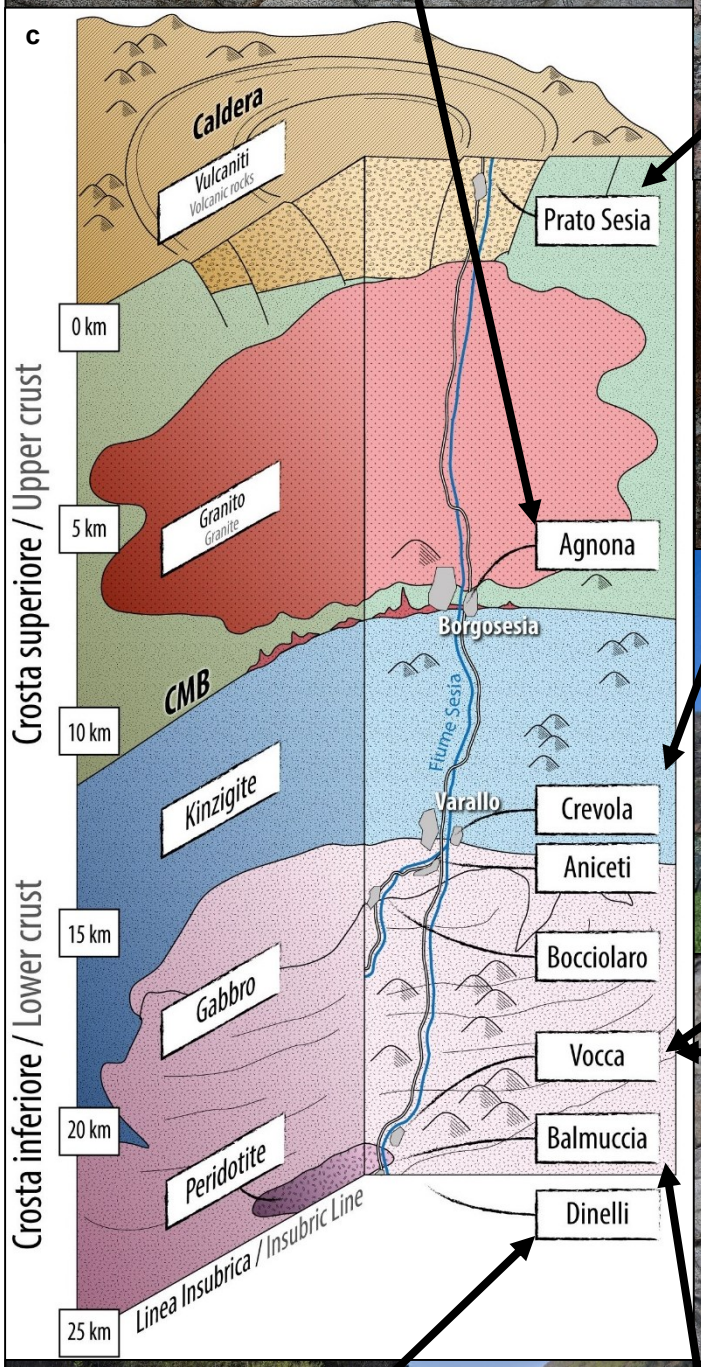

f


g

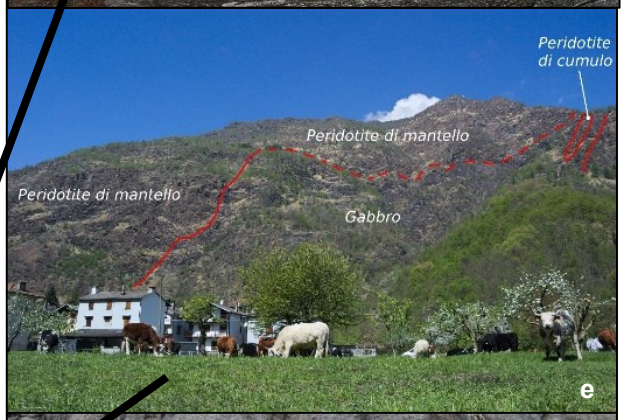
TABLE IV


a


b


c
Caldera
Vulcaniti
Volcanic rocks
Prato Sesia
0 km
5 km
Granito
Granite
Agnona
Borgosesia
CMB
10 km
Kinzigite
Fiume Sesia
Varallo
Crevola
Aniceti
15 km
Gabbro
Bocciolaro
Vocca
20 km
Balmuccia
Peridotite
Dinelli
Linea Insubrica / Insubric Line
25 km
Crosta superiore / Upper crust
Crosta inferiore / Lower crust


d

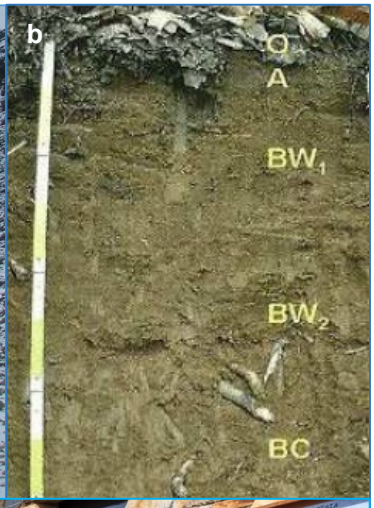

Peridotite di cumulo
Peridotite di mantello
Peridotite di mantello
Gabbro
e

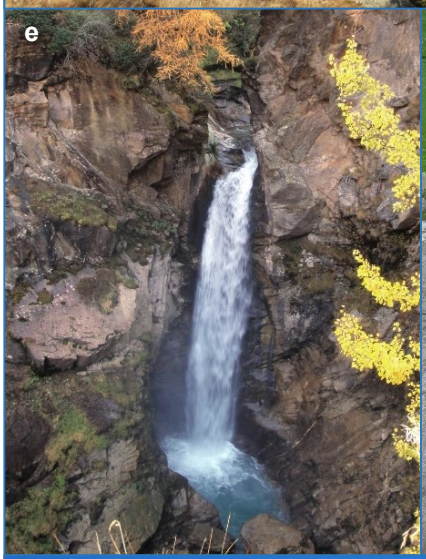

f

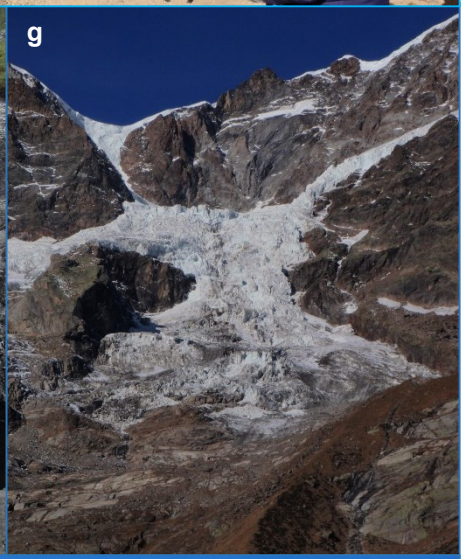

h


g

TABLE V







Supplementary File 4 – Images from the Sesia Val Grande UNESCO Geopark taken along the most representative geotrails, with specific views on geosites and off-site geoheritage

TABLE I

Loana Valley Geotouristic ring trail (1, SF 2)

a) Scaredi glaciostructural saddle along the Canavese Line and the Marble Lake (27, SF 1)
b) Pizzo Stagno landslide (18, SF 1)
c) Snow avalanche accumulation along the trail during January, 2020
d) Fornaci della calce (lime kilns) during a guided tour in the framework of the opening of the geotrail (12th October, 2019)
e) Example of the panels on-site, at the beginning of the geotrail.
f) Example of the video available on the screens inside the Ecomuseum Leuzerie et Scherpelit in Malesco municipality (5, SF 3)

TABLE II

The South Alpine basements geotrails - Spatio-temporal journey inside the Earth depth (18; SF 2)

a) Moho surface in outcrop at Premosello Chiovenda (51, SF 1)
b) Phyllonites along the Canavese Line at Vogogna Village (8, SF 1)
c) Panoramic view on the contact between Austroalpine and South Alpine domains along the Insubric Line
d) Glassy pseudotachylyte veins (52, SF 1)
e, f) Images from the Geolab «Luigi Burlini» in Vogogna village (6, SF 3)
g) Video of the geological trail available on the geopark web site

The South Alpine basements geotrails - The continental crust birth: geological trail along the Cadorna route (5; SF 2)

h) Example of the panels on-site, at Pian d'Arla (43, SF 1)
i) Fold in Gneiss Minuti with a Calc-silicate inclusion
l) Example of the rendering for representing a geological section at the Mt. Bavarione

TABLE III

The Blue trail (9, SF 2)

a) Example of the panels on-site, at the beginning of the geotrail
b) A quarried block of granite along the trail

The Strona Valley geological spots

c) Alvani Nickel mine in Campello Monti (32, SF 1)
d) Images from the Centro Museale Naturalistico "Mario Bertolani" in Sambughetto village (2, SF 3)
e) Sambughetto karst cave (21, SF 1)

Cave trail at Mt. Fenera (10, SF 2)

f) Guided tour at the karst cave of Mt. Fenera (22, SF 1)
g) View inside the Mt. Fenera karst cave (22, SF 1)

TABLE IV

The Sesia supervolcano trail (2, SF 2)

a) Mingling of mafic and acidic rocks boundary of lower and upper crust at Agnona (1, SF 1)
b) Caldera Megabreccia at Prato Sesia (50, SF 1)
c) Sketch of the Supervolcano structure present at the Info point in Prato Sesia (7, SF 3)
d) Mafic Complex – Kinzigite Formation contact at Crevola (16, SF 1)
e) Contact between mantle peridotite and Mafic Complex at Isola di Vocca (25, SF 1)
f) High-temperature deformation of gabbro at Isola di Vocca (24, SF 1)
g) One of the best preserved mantle peridotites in the world at Balmuccia (41, SF 1)
h) Sesia river where mylonite of the Insubric Line outcrop at Dinelli (58, SF 1)

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TABLE V

Cimalegna geological-geopedological trail at the Cimalegna plateau (3, SF 2)

a) Mosso Institute at Passo dei Salati (8, SF 3)
b) One of the soil profiles illustrated along the trail
c) A guided tour along the trail

Upper Sesia Valley Natural Park Glaciological trail (4, SF 2) (pictures d, e, f, g, courtesy of C. Leonoris)

d) Fondecco lateral moraine
e) Waterfall with potholes along the Sesia river
f) Rochee moutonnes and giants' kettles
g) View on the Piode glacier snout
h) Panoramic view on the Mt. Rosa from Sesia Valley (31, SF 1)