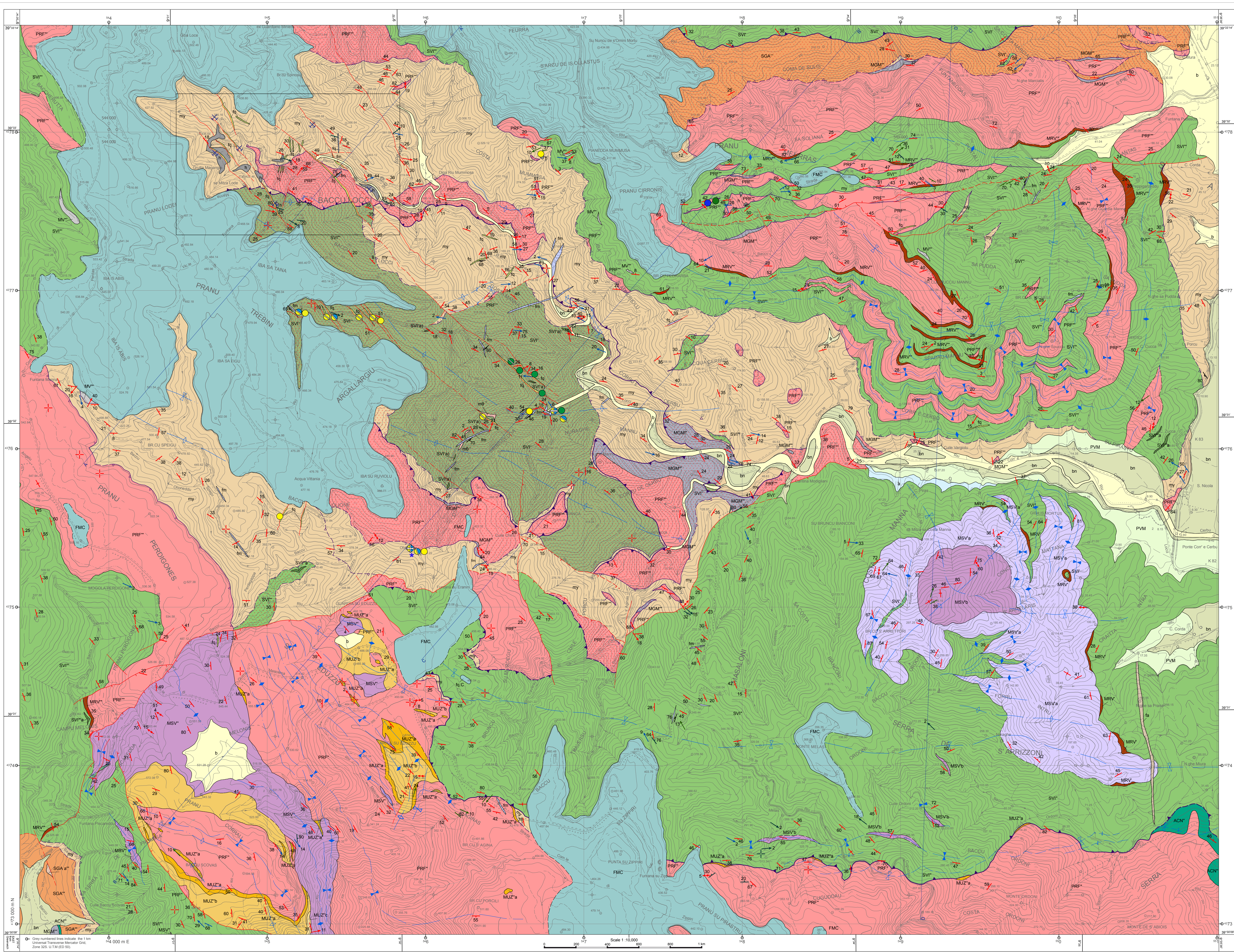




GEOLOGICAL AND METALLOGENIC MAP OF BACCU LOCCI AREA (SARDINIA, ITALY)

A. Funedda^{1a,b}, S. Naitza^{2,c}, P. Conti^{2b}, A. Dini^{1a,c}, C. Butta^{1a}, S. Tocco^{2c}, L. Carmignani^{2a}

1 - DISTER - Dipartimento di Scienze della Terra - University of Cagliari, Via Trentino 51 Cagliari
2 - DIGTA - Dipartimento di Geomineralogia e Petrologia - University of Cagliari, P.zza d'Armi Cagliari
3 - CGT - Centro di Geotecnologie - University of Siena, Via dei vetri vecchi, San Giovanni Valdarno (Ar)
4 - IGG - Istituto di Geoscienze e Georisorse - CNR, Via Moruzzi 1, 56124 Pisa

^a Mapping Supervisor; ^b Geological mapping; ^c Ore deposits survey; ^d 3D modelling.
Map compiled by Antonio Funedda, GIS and design by Cristina Butta.

GEOLOGIC LEGEND

- h** Landfill mining
- b** Alluvial deposit in evolution (Holocene)
- a** Colluvial deposit (Holocene)
- PVM** Terraced alluvial deposit (Pleistocene)
- FMC** Monte Cardia Formation
- fm** Continental and marine deposits (L. Eocene)
- lq** Mafic dykes (7 U. Carboniferous - Permian)
- la** Hydrothermal veins of prevailing Qtz with Apy, Gn, Sp, Au (7 U. Carboniferous - Permian)
- fa** Felsic dykes (7 U. Carboniferous - Permian)

Variscan Basement

- my** Mylonite related to the Variscan shortening phases where it is impossible to recognize the protolite

Meana Sardo Tectonic Unit

- MSV** Monte Santa Vittoria Formation. Intermediate to basic metavolcanics: a) metapelite and metaglomerates with volcanic matrix; b) andesitic metapelite and metaglomerates (M. - 7U. Ordovician)
- MSV** Metaconglomerates of Muravera. Coarse metaconglomerates (7 M. Ordovician)
- SVI** Arenarie di San Vito. Micaceous metasediments, interbedded with metapelite. (M. Cambrian - L. Ordovician)

Gerrei Tectonic Unit

- ACN** Argillitosi di Rio Canoni. Metapelite and metasilite. (U. Ordovician)
- MGM** Metarosse di Genna Mesa. Metarosse, quartzites and metaconglomerates. (U. Ordovician)

SYMBOLY

- PRF** "Porfiroidi". Calc-alkaline metapelite with rhyolitic-dacitic composition. (7M. - U. Ordovician)
- MUZ** Su Muzzioli Formation. a) quartzites; b) metasediments; c) metaconglomerates (7M. - U. Ordovician)
- MSV** Monte Santa Vittoria Formation. Intermediate to basic metavolcanics. (M. - 7U. Ordovician)
- SVI** Arenarie di San Vito. Micaceous metasediments, interbedded with metapelite. (M. Cambrian - L. Ordovician)
- SGA** Arcu de su Bentu Subunit. Black shales; a) metasilite (Silurian - L. Devonian)
- ACN** Argillitosi di Rio Canoni. Metapelite and metasilite. (U. Ordovician)
- MGM** Metarosse di Genna Mesa. Metarosse, quartzites and metaconglomerates. (U. Ordovician)
- PRF** "Porfiroidi". Calc-alkaline metapelite with rhyolitic-dacitic composition. (7M. - U. Ordovician)
- MRV** Metaconglomerati di Muravera. Coarse metaconglomerates. (7 M. Ordovician)
- MSV** Metavolcanics "incertae sedis". (7 L. Ordovician)
- SVI** Arenarie di San Vito. Micaceous metasediments, interbedded with metapelite; a) lenses of metasilite. (M. Cambrian - L. Ordovician)
- mi** Dolerite dykes. (7 M. - U. Ordovician)
- SVI** Arenarie di San Vito. Micaceous metasediments, and with metapelite; a) lenses of metasilite. (M. Cambrian - L. Ordovician)

PARAGENETIC SEQUENCE

Quartz	Schistosity	Stockwork	Mineral association	Exploited ores in underground mine works
Quartz	Schistosity	Stockwork	Quartz - Arsenopyrite	Quartz - Arsenopyrite
Schistosity	Schistosity	Stockwork	Galenite - Chalcocite	Galenite - Chalcocite
Schistosity	Schistosity	Stockwork	Sphalerite - Sphalerite	Sphalerite - Sphalerite
Schistosity	Schistosity	Stockwork	Pyrite (Arsenopyrite)	Pyrite (Arsenopyrite)
Schistosity	Schistosity	Stockwork	Quartz - Sphalerite-Chalcocite	Quartz - Sphalerite-Chalcocite
Schistosity	Schistosity	Stockwork	Supergene association zone: Bornite - Covellite - Cuprite - Copper - Malachite - Azurite - Smithsonite	Supergene association zone: Bornite - Covellite - Cuprite - Copper - Malachite - Azurite - Smithsonite

