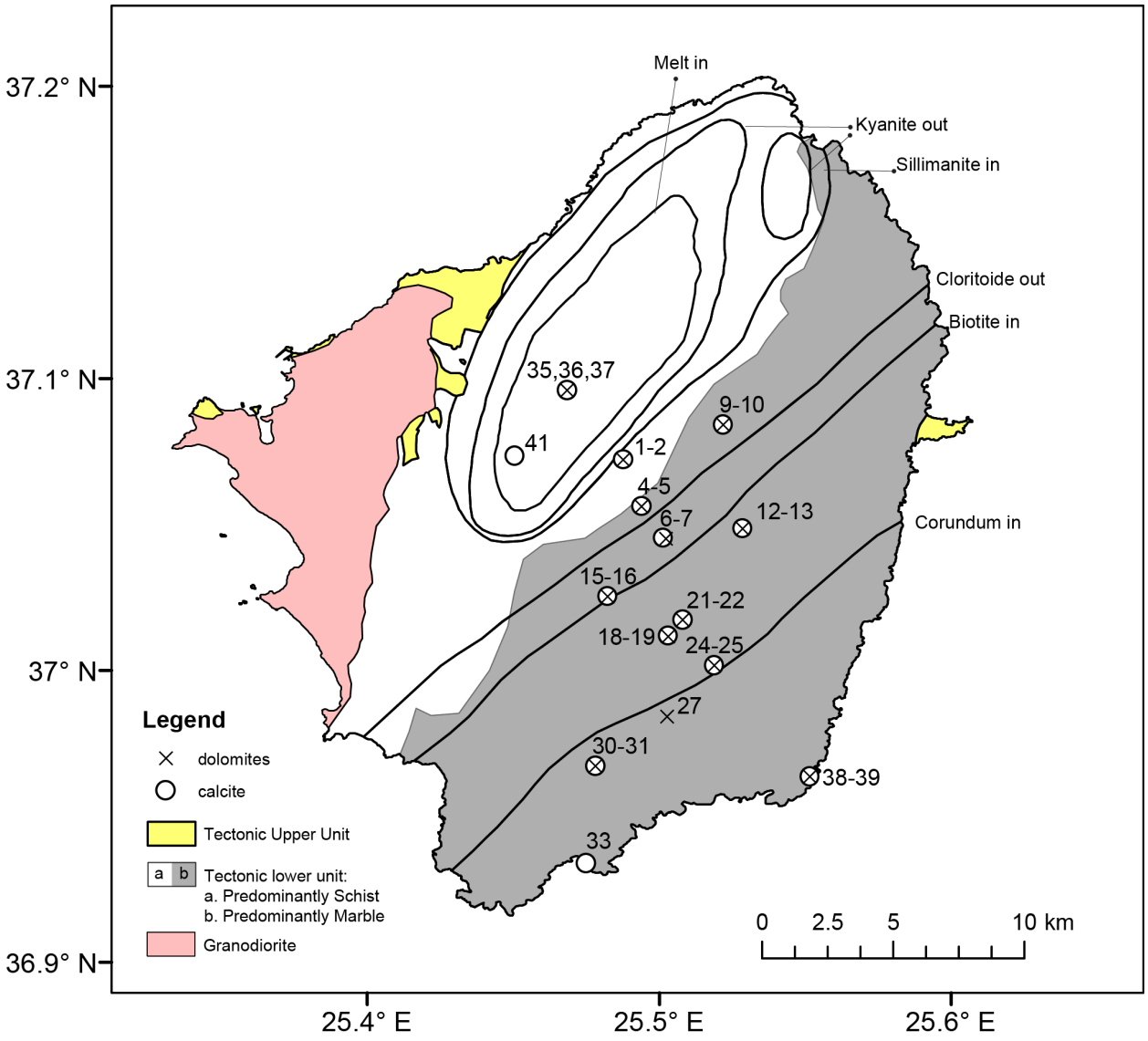
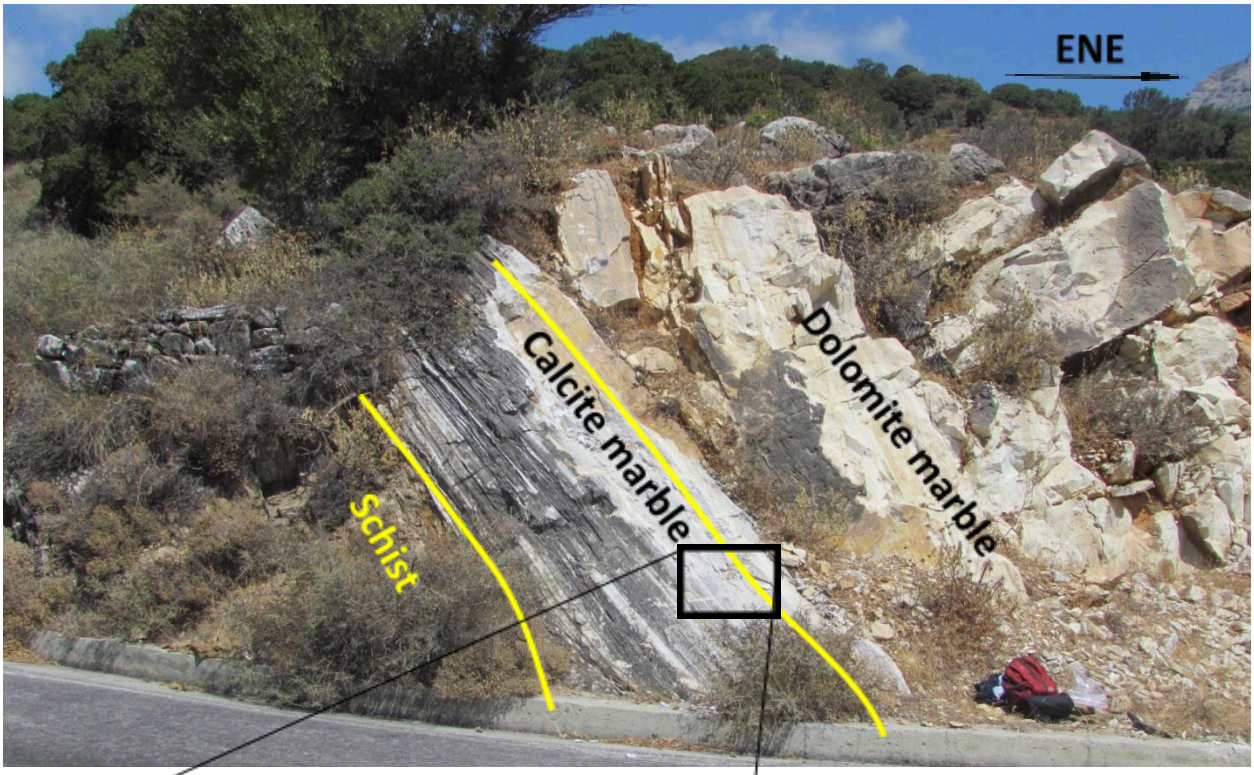
Data repository Item DR2 – Detailed sample location map and description of key sampling sites

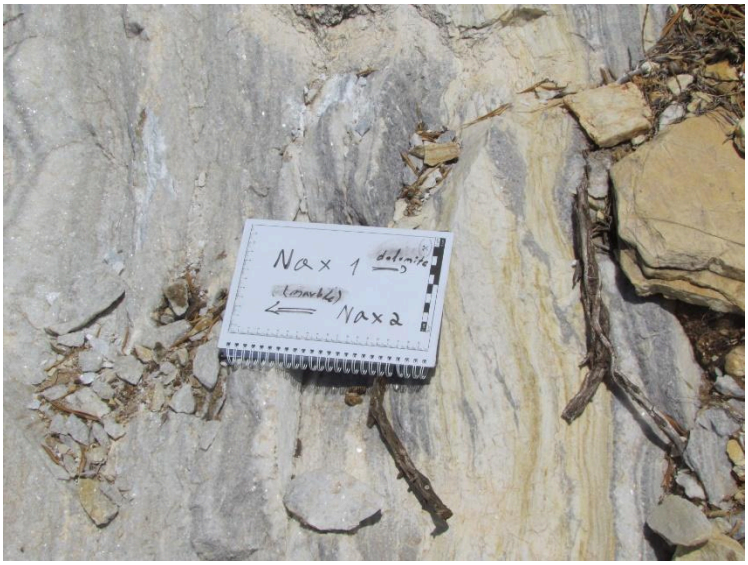


Location map presenting NAX sample numbers. The Lower tectonic unit is divided to predominantly schist or marble units, corresponding to the 'Lower Series' and 'Upper Series' respectively (Jansen, 1973; Geological map of Naxos).

Site NAX1-2 (37.0722N/ 25.4877)

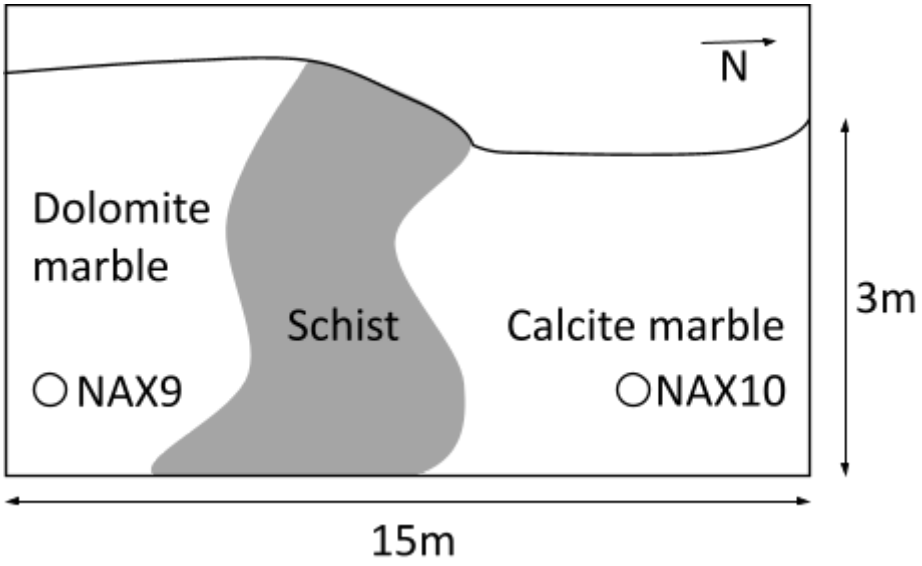
A road-cut south of the village of Moni, on the eastern flank of core-complex structure, immediately east of the migmatite core. The outcrop consists of east-dipping beds of dark grey schist, white and grey banded calcite marble, and yellowish dolomite marble. Sample NAX1 and NAX2 were collected from the dolomite and calcite marbles respectively. The sharp contact between yellowish dolomite marble and white and grey color banded calcite marble is clearly visible in the lower panel.





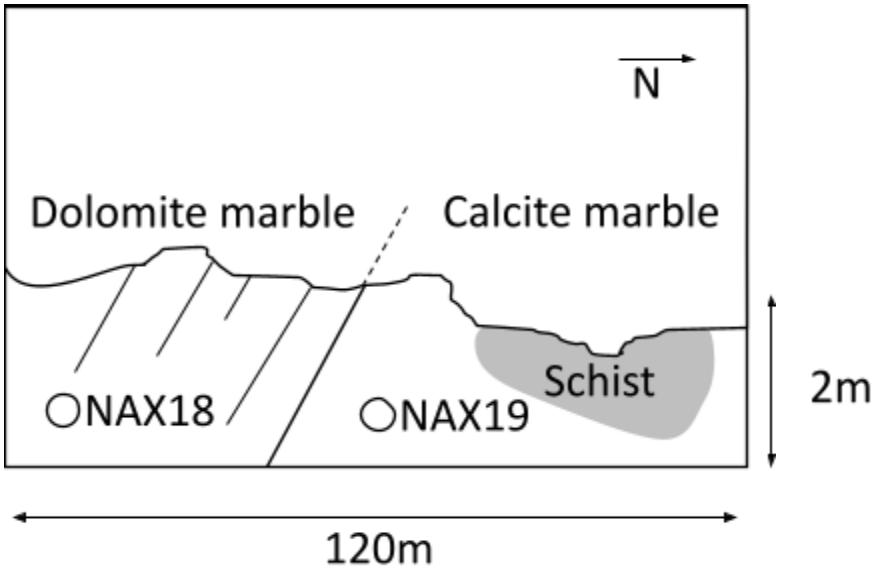
Site NAX9-10 (37.0841 N/25.5219 E)

A road-cut south of the village of Keramoti, on the eastern flank of the core complex structure, immediately east of the migmatite core. The outcrop consists of south-eastern dipping sequence of white dolomite marble, dark-grey schist and white-grey calcite marble beds (schematic cross section is given below). The dolomite contains veins and dissolution-fissure coated with sugary yellow dolomite. Sample NAX9 was collected from the dolomite marble and contains both host rock and vein material. Sample NAX10 was collected from the calcite marble.



Site NAX18-19 (37.0118 N/25.5031 E)

A road cut ~2 km south east of Mt. Zas, on the southeastern flank of the core complex structure in the corundum-in metamorphic zone. The outcrop consists of southeastern dipping dolomite and calcite marble beds (schematic cross section is given below). The calcite marble contains a lens of silvery-grey schist, and is locally crossed by shear-bands. Samples were collected from the dolomite marble (NAX18) and a calcite marble containing a shear-band (NAX19).



Site NAX35-36-37 (37.0960 N/25.4685 E)

A road-cut located about 1 km west of the village of Kinidaros, within the migmatite core. The outcrop consists of three sub-units (highlighted on the photograph below): 1) massive calcite marble consisting of very large calcite crystals (up to 3 cm in diameter, a photograph of the hand sample is given in the lower panel). 2) Migmatite, containing few thin beds of coarse-grain dolomite marble; the dolomite-migmatite unite has a distinct fold structure; crenulations of migmatite and dolomite marble have an amplitude of 1-4 m and wavelength is 1-2 m. 3) A leucogranite intrusion. Samples of dolomite marble (NAX35), calcite marble (NAX36) and leucogranite (NAX37) were collected at this site.