Geological Map of Naxos

Submitted towards the Degree of Doctor of Philosophy in Geology and Mineralogy 2018

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Naxos Map and Cross Section Key

Hangingwall Units (Upper Cycladic Nappe)
- Trench melange with marble exotics
- Silicified chert
- Serpentinites and pillow basalt
- Continental sediments (Miocene-Pleistocene)

Naxos-Paros Detachment System (NPDS)
(Moutsana Detachment)

Footwall Units

Metamorphic Rocks

Zas Unit: (Greenschists retrogressed from Cycladic Blueschists)
- Grt+Bt+Chl+Ms Schists and Calc Schists
- Dolomitic Marbles

Zas Shear Zone (ZSZ)

Koronos Unit: (Amphibolite grade Ky/ Sill grade gneisses)
- Grt+Ky+Bt+Ms±Sill±Kfs schists and gneisses
- Dolomitic and calcite marbles
- Amphibolites
- Ultramafic lenses

Koronos Shear Zone (KSZ)

Core Unit: (Upper amphibolite Ky and Sill-grade migmatites)
- Mylonitized psammitic and Hb-Bt gneiss (Basement)
- Grt+Bt±Ky±Sill±Kfs±Ms migmatites and orthogneiss
- Calcite marble with amphibolite horizons

Faults
- Major Reactivated Shear Zone (Normal Sense)
- Relict Thrust
- Extensional Detachment Fault (NPDS)
- Normal Fault

Igneous rocks
- Western Naxos I-Type Granodiorite
- S-Type leucogranite dykes and sills: Grt+Tourm / Ms+Bt±Grt

Scale 0km 2km 4km
TLN42 Sample Location
+Kyanite Metamorphic isograds









