Geological Map of Tinos

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Poles to axial planes in the metamorphic sole

N = 31

All Lineations under the Tsiknias Ophiolite (NE Tinos)

N = 95

Poles to foliations on the Tsiknias Syncline (NE Tinos)

Best fit great circle: 121.8/85.2
Pole to great circle: 031.8/ 04.83

N = 301

Poles to foliations on the Sostis anticline (E Tinos)

Best fit great circle: 120.1/82.0
Pole to great circle: 030.1/08.05

N = 75

Lineations on the Tinos Shear zone (SE Tinos)

Best fit great circle: 079.9/24.1
mean vector: 215.5/17.42

N = 189

Normal faults

N = 41

Key

- Active Faults
- Normal Faults
- Thrust Faults
- Strike Slip Faults
- Inactive Faults
- Detachment Faults
- Thrust Faults

Tectonic Units

- Miocene/ Quaternary Sediments and Ophiolites
- Eocene Forearc Basin
- Rhodope-Sakarva Block
- Vadar-Izmir Oceanic unit
- Menderes cover and Basement
- Pelagonian-Lycian Block
- Pindos Oceanic unit including Cycladic Blueschists
- Cycladic Basement
- Aegean Granitoids
- Tripolitza Block
- Ionian Block
- Mediterranean Ridge Accretionary Complex
- African Lithosphere
- Aegean Volcanics

Tectonic Stratigraphy **Key**

Tsiknias Ophiolite

- Serpentinized peridotites
- Foliated gabbro
- Plagiogranite dykes
- North Tinos Unit: Meta-psammites and schist
- Akrotiri Unit

SW — Tsiknias Thrust — NE

Sub Ophiolitic Metamorphic Sole

- Amphibolites ± Cpx ± Melt
- Epidote amphibolites: Meta-basalts, cherts and distal oceanic sediments
- Mirsini Unit: Distal metasediments, turbidites and volcaniclastics
- Mafic Greenschist Phyllites

SW — NE — Tinos Shear Zone

High Pressure Units (Cycladic Blueschists)

- Falatados Unit: Psammites and distal meta-sediments
- Fokos Unit: Ep + Chl ± Grt retrogressed high-pressure metabasites and calcschists
- Kionia Eclogite and Blueschist Unit

SW — Kionnia Thrust — NE

Northern Western Tinos above Sostis Unit:

- Marlas Unit: Blueschists, metapelites and meta-psammites

SW — Marlas Shear Zone — NE

- Pygros Unit: Blueschists, metapelites and calc-schists
- Pygros Unit: Mainly dolomitic marble

SW — Pygros Fold Duplex — NE

- Sostis Unit: Meta-psammites, calc-schists and pelites with retrogressed metabasites
- Sostis Unit: Mainly calcite marble

Igneous Rocks

- Tinos I-type Granite
- Grt+Bt Aplite Sills
- Dacite/ Latite Dykes

Structures

Faults
- Thrust Fault
- Low Angle Normal Fault
- High Angle Normal Fault
- Antiform
- Synform

Contacts
- Observed Contact
- Inferred Contact

43 — Strike and dip of foliation

18 — Lineation azimuth and plunge

Scale 0 Km 1 Km 2 Km













