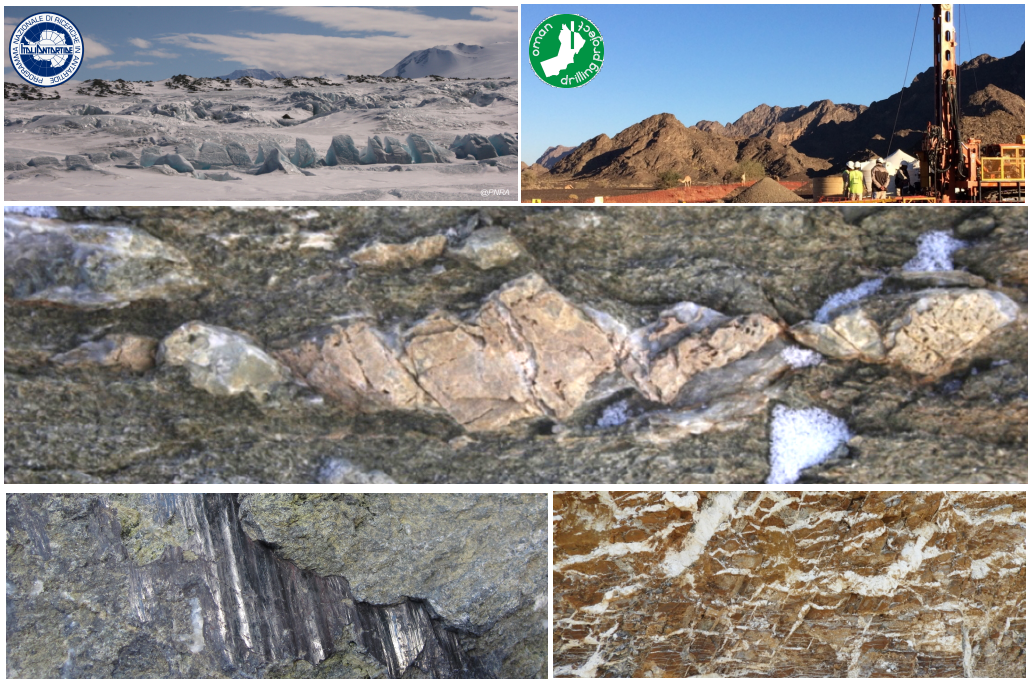
STRUCTURAL GEOLOGY AND TECTONICS

Multiscale Tectonic Analysis and Geodynamics



a) Structure and tectonic evolution of the oceanic lithosphere both in fossil (e.g. ophiolites, OCT) and present-day settings (e.g. Mid-ocean ridges).
b) Relationships between on land and offshore tectonic structures (areas: Ligurian Sea, Antarctica, South America).
c) Relationship between deformation and mineralization (veining and fluid-rock interaction in fossil and present-day oceanic settings).
d) Geodynamic evolution of orogenic and post-orogenic systems (e.g. paleo-Pacific margin of Gondwana, Transantarctic Mountains, Arctic polar area, Southern Europe, Alps and Apennines).
e) Relationships between tectonics and seismicity (e.g. fault zones, fault rocks, active capable faults in low-seismicity areas).
f) Morphotectonics, relationships between tectonic structures and landscape evolution – onland and offshore (e.g. mountain slope deformations, landslides).

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KEYWORDS:
Structural Analysis, Tectonics, Geodynamics

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