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Our Human Past and our Human Future - Plate Tectonics

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The evolution of the Mediterranean subduction zones and their deep slab structure started during the Late Cretaceous and is a result of the relative movement of the African and European plate including the independent motion of five microplates (Adria, Iberia, Alcapia, and Tisia), which caused subduction zones consuming the Tethys Ocean – a Mesozoic Ocean preserved in the Alps.

Subduction zone evolution and deep slab structure in the ...

Therefore, the oxygen fugacity evolution of subduction zone should have significant effect on the carbon phase relation and flux of deep carbon cycle. Until now, only our study (Tao et al., 2018a) constrained the in situ prograde oxygen fugacity of Western Tianshan subduction zone. To confirm the universality of the polarized redox model, we need more studies on other worldwide subduction zones.

Redox evolution of western Tianshan subduction zone and ...

Seismicity at subduction zones. Subduction zones are characterised by seismicity from the surface down to almost 700 km depth, and are often referred to as Wadati – Benioff zones (Benioff, 1949; Wadati, 1928, 1935). Seismicity is often classified as shallow (0 – 70 km), intermediate (70 – 300 km) and deep (300 – 700 km).

Subduction Zone - an overview | ScienceDirect Topics

Subduction Interface Dynamics from Shallow to Deep Projects. Modern subduction zones play a key role in large-scale Earth process, including mass and volatile recycling, plate boundary deformation, and seismicity. Evidence from the rock record of ancient subduction zones can complement geophysical investigations of

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modern systems by informing our interpretations and providing constraints for geodynamical models.

Subduction Interface Dynamics from Shallow to Deep ...

Subduction Zones are where cool lithospheric plates sink back into the mantle. It takes about 50 my for the ocean lithosphere that formed in the hot ( $>1000\text{ }^{\circ}\text{C}$ ) environment at mid-ocean ridges to cool to an equilibrium state and sink to its maximum depth below sea-level.

SUBDUCTION ZONES and ISLAND ARCS

The chemical and physical processes operating during subduction-zone metamorphism can profoundly influence the cycling of elements on Earth. Deep-Earth carbon (C) cycling and mobility in subduction zones has been of particular recent interest to the scientific community.

Ophiocarbonate evolution from seafloor to subduction and ...

The chemical and physical processes operating during subduction-zone metamorphism can profoundly influence the cycling of elements on Earth. Deep-Earth carbon (C) cycling and mobi

Ophiocarbonate evolution from seafloor to subduction and ...

Considering the known temperature limit for life,  $122\text{ }^{\circ}\text{C}$ , and the subduction zone forearc geotherm where such mud volcanoes are located, we estimate that life could exist as deep as  $10,000\text{ m}$  below the seafloor.

Subduction zone forearc serpentinites as incubators for ...

Subduction zone: the collision site. The process begins as two continents (different bits of continental crust), separated across a tract of ocean (and oceanic crust), approach each other, while the oceanic crust is slowly consumed at a subduction zone. The subduction zone runs along the edge of one of the continents and dips under it, raising volcanic mountain chains at some distance behind it ...

Continental collision - Wikipedia

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Subduction Zone Evolution And Deep Slab Structure In The

In most subduction zones, the subducting oceanic crust passes through the blueschist eclogite metamorphic facies transition where continuous dehydration reactions may release large amounts of  $\text{H}_2\text{O}$ . Integrated over time, aqueous fluids released from the subducting slab cause extensive hydration of the overlying mantle wedge and trigger partial melting in the core of the convecting mantle wedge. Partial melting of subducting oceanic crust occurs only under rare circumstances such as near ...

Thermal and Petrologic Structure of Subduction Zones ...

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Depending on temperatures, antigorite (a variety of serpentine) is stable up to pressures of  $8\text{ GPa}$ ,  $250\text{ km}$  deep in a subduction zone [Ulmer and Trommsdorf, 1995], providing an effective way to transport water to great depths. Double seismic zones, with the upper zone corresponding to the top of the subducted slab and the lower zone lying  $20 - 40\text{ km}$  deeper, are found in several subduction zones (mostly in the western Pacific).

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SUBDUCTION ZONES - Stern - 2002 - Reviews of Geophysics ...

At deeper levels in the subduction zone (that is, greater than 30 – 35 km [about 19 – 22 miles]), eclogites, which consist of high-pressure minerals such as red garnet (pyrope) and omphacite (pyroxene), form.

Plate tectonics - Seafloor spreading | Britannica

Subduction zone, oceanic trench area marginal to a continent in which, according to the theory of plate tectonics, older and denser seafloor underthrusts the continental mass, dragging downward into the Earth's upper mantle the accumulated trench sediments. The subduction zone, accordingly, is the antithesis of the mid-oceanic ridge.

Subduction zone | geology | Britannica

The subduction tectonics of the Philippines is the control of geology over the Philippine archipelago. The Philippine region is seismically active and has been progressively constructed by plates converging towards each other in multiple directions. The region is bounded by subduction zones, where surrounding oceanic plates to the east and west slide towards the centre of the Philippine archipelago. Subduction results in deep oceanic trenches, such as the Philippine Trench and Manila Trench, bou

Subduction tectonics of the Philippines - Wikipedia

Water (H<sub>2</sub>O) and other volatiles (e.g. CO<sub>2</sub> and sulphur) that are cycled through the deep Earth have played a key role in the evolution of our planet, including in the formation of continents ...

How water in the deep Earth triggers earthquakes and ...

Reconstruction of tectonic plates and seafloor sediment thickness from 230 Ma to present day using the Müller et al. (2016) plate model (<http://www.earthbyte...>)

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