Pre-Mesozoic geology in the Alps

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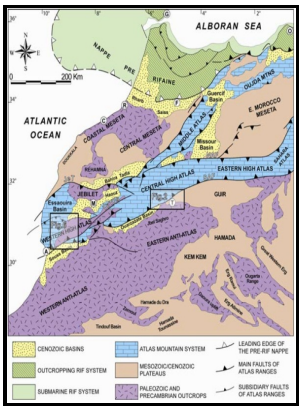

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The final chapter provides an overview of the fossils fuels, ore and industrial minerals in the region. As a result, only heat is transferred from the basalts to the greywacke melts, which intrude higher levels of the accretionary complex and get deformed to end as peraluminous orthogneisses in paragneiss country rocks. Being melts of sedimentary rocks, they should have S-type character.

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The processes of peraluminous magmatism are summarized in Table and the block diagram of Fig. As you can see we have a situation where granodiorite is surrounded by orthogneiss and. Data of I-type granitoids from the Lachlan Fold Belt LFB, Australia and the tonalitic Fusht Complex southern Oman are from Chappell and White and Hauser and Zurbriggen , respectively.

Banded amphibolites in the Alps: a new interpretation in relation to early Paleozoic peraluminous magmatism

Steep strike-slip faults, which are important structures for the syn-magmatic cratonization of subduction—accretion complexes, provide pathways for the emplacement of magmas, migmatites and intermingled materials.

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They were generated either i in late Paleozoic related to the formation of Pangaea and subsequent Permian transtension, or ii during the Ordovician orogeny at the periphery of Gondwana Bussien et al. Assuming a thickness of the accretionary complex of 25 km, then the lowermost 6. Heim , already described in detail their lithological and structural analogies, namely between the Helvetic Aar, Gotthard, Mont-Blanc, and Aiguilles Rouges massifs pp.

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The rapid cooling to the temerature of the surrounding granitoids hinders, indeed, the growth of large grains.

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Type 1 are hornblende bearing metatonalites like they crop out at Molinetto Fig.

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