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The laminar flow between two horizontal parallel plates is shown in Figure (1). See text for details. 20 mm ($\rho = 0$. M. A parallel plate capacitor with plates of area 320 cm. So $V/d = Q/A\epsilon_0$ or, rearranging $Q = VA\epsilon_0/d$ The force is given by the field due to one plate times the charge on the other. $04 = 112$. Independent of the distance between ...

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parallel to the arc. The alignment of [100] axes parallel to the strike of the arc is the same as predicted from seismic anisotropy measurements at several active arcs and provides the first field evidence for arc-parallel flow within the upper mantle. These observations suggest that 3-D flow needs to be included in the interpretation of ...

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Arc-parallel changes in slab thermal conditions cannot account for these gradients. Trench parallel geochemical gradients in the northern Cascade Arc are consistent with shear wave splitting data, numerical modeling, and experimental studies showing that trench-parallel mantle flow may be a common phenomenon near slab edges and slab gaps.

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and flow modeling at depth. [10] Based on the joint consideration of the results of shear wave splitting and geochemistry, Hoernle et al. [2008] interpreted the trench-parallel orientation of the leading split S wave beneath north Costa Rica and Nicaragua as an indication of an arc-parallel flow in the mantle wedge above the subducting slab.

The origin of this arc-parallel fast anisotropy, in particular whether it is related to along-arc flow within the mantle wedge or some other process, is vigorously debated 5,6,13-16 .

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