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Lithospheric movement zones in the oceanic mantle [abstract only]

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Large movement zones, which can be related to known oceanic lithosphere dislocations, have been studied in ophiolitic peridotites. They comprise transcurrent shear zones of 1–10 km thickness equated with oceanic transform faults and thrust zones of 1–2 km thick equated with oceanic thrusts like those documented by seismic data in front of the Peru–Chile Trench.

The physical conditions of deformation, the active deformation mechanisms, the overall geometry and the kinematics of these movement zones are discussed and their geodynamic interpretation considered.

Note. The abstract only is given here because Professor Nicolas's paper did not become available after the meeting.