

Microtextural signatures in quartz grains and foraminifera from tsunami deposits of the Portuguese shelf

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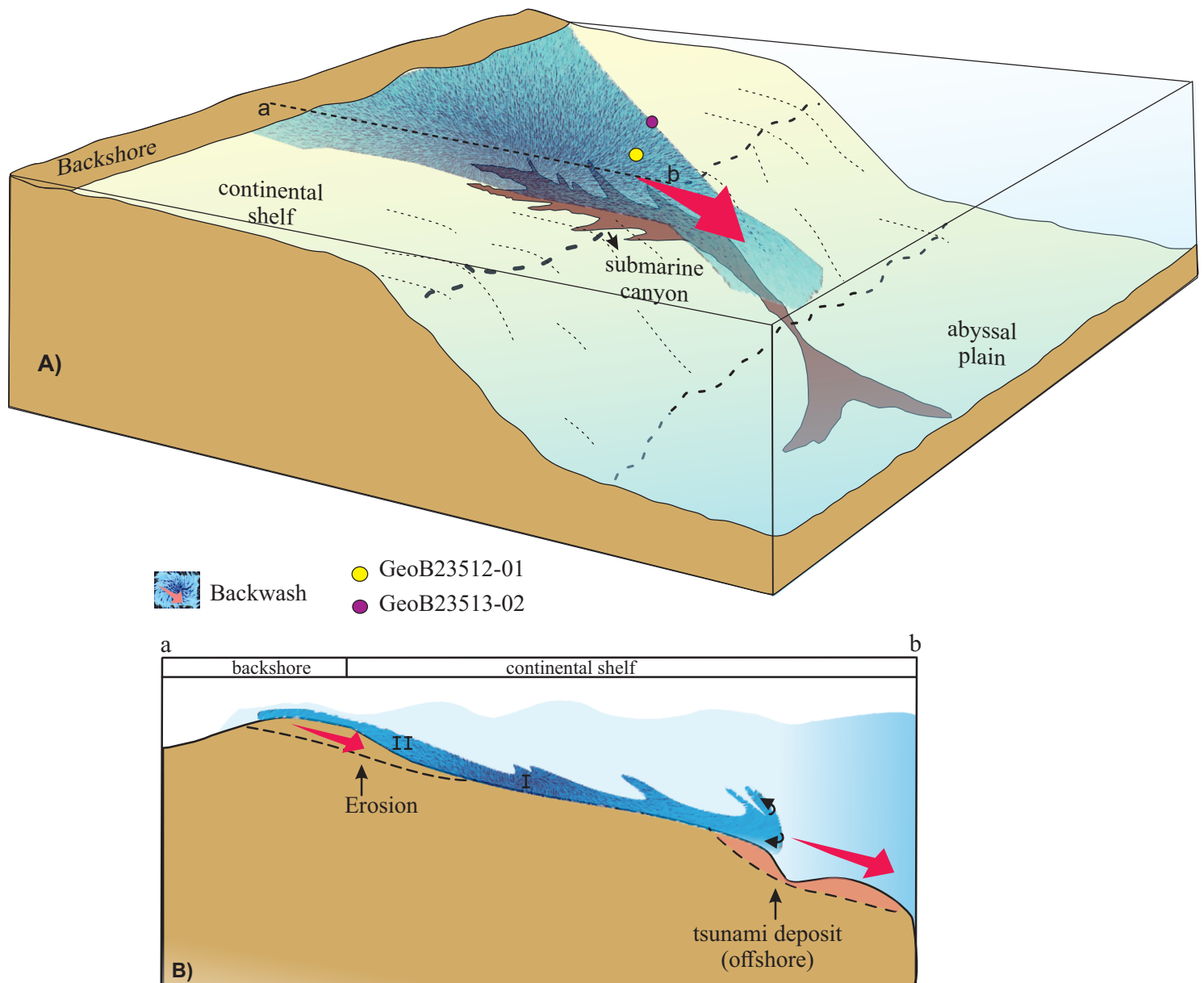


Fig.07 Conceptual model of backwash dynamics: A) Diagram illustrating approximately the position of the cores in relation to the Portimao canyon. The backwash flow concentrated in the canyon reaches higher velocities as the depth increases. As the energy is proportional to the velocity, the flow channeled by the Portimao canyon promotes more generation of mechanical marks on the quartz grains, which is observed in the GeoB23512-01 core B) Schematic profile a-b, backwash transports high density offshore flows this can lead to more offshore erosion and reinsertion; (I) High concentration of sediments carried by erosion favors the formation of fractures and percussion marks; (II) The low concentration of sediment in the water column generates more energetic collisions and fresh surfaces in the grains.