
Regional and teleseismic analysis of the early stages of the magmatic process, offshore Mayotte, Comoro Islands.

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Résumé

Analysis of global data provided a detailed picture of the early stages of the magmatic process occurring offshore Mayotte, without any on-site monitoring. One resonance signal (VLP) was first detected by regional stations (January 2018) before the start of the seismic crisis where volcano-tectonic events (VT) migrated upward opening a pathway for the magma to the surface, as seen on ABKAR, Kazakhstan (May-June 2018). Then, later VTs marked the progressive failure of the magma reservoir's roof. VLPs were detected with resonance frequency changes and triggered by deep VTs, which seems to link the resonance source location to the reservoir.

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