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BSR in the Ionian sea?

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In this work, we present the results of the processing and interpretation of part of seismic profile MS24. This line is oriented NW-SE and crosses the external front of the Calabrian Arc accretionary wedge, which is characterized by a very rough morphology of the seafloor, mainly induced by the recent tectonic activity Thrusting and backthrusting, together with sediment transported from onland, determine the presence at the seafloor of positive structures related to fluid migration. To better characterize these features, we applied an advanced seismic processing aiming at defining an accurate velocity field to perform the depth migration and theoretical considerations. The new processed data gives more information about an high amplitude reflector associated to velocity inversion. Along the seismic profile we identified also other structures related to fluid migration (i.e. mud volcanoes), which could explain the relationship between velocity inversion and free gas presence.