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Comment

Interactive comment on “Ventilation of the Mediterranean Sea constrained by multiple transient tracer measurements” by T. Stöven and T. Tanhua

B. Hochwimmer

berniebh@optusnet.com.au

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The statement "It is also the conduit for gas exchange between atmosphere and ocean" might make mention there is another significant interface to ocean; that with earth's interior. Not simply mid ocean ridges, this may occur over 100km width laterally through trillions of micro fractures sourcing mantle convection. Not certain if this has been modelled to any extent, if at all, compared with ridges themselves, influence of short term core-mantle perturbations thereof, verses subduction counterbalance and metamorphic terrane exhumation and its subsequent riverine/atmosphere exchange as a "conduit" to ocean.

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