

**Understanding the evolution of an oceanic intraplate volcano from seismic reflection data: A new model for La Réunion, Indian Ocean**

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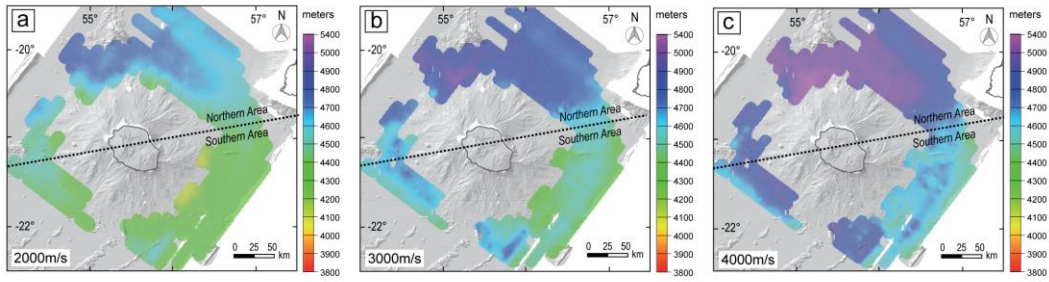
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Figure S1

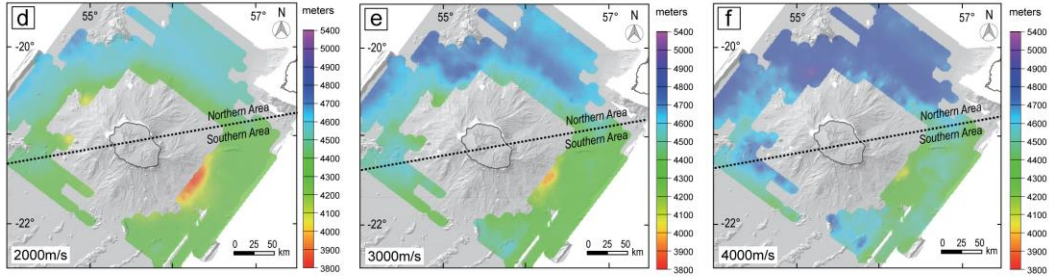
**Introduction**

The Figure S1 illustrates the depth of the horizons V and S identified at a regional scale, on the seismic data collected offshore La Réunion during the FOREVER cruise in 2006. The depth of each horizon has been converted in meters by using a seismic velocity of 1500 m/s in the water column and a range of seismic velocities within underlying material varying from 2000 m/s to 4000 m/s derived from the REUSIS OBS data [Charvis *et al.*, 1999; Gallart *et al.*, 1999].

**Horizon V**



**Horizon S**



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26

27 **Figure S1.** Depth variations of the horizons (a-c) V and (d-f) S in meters, superimposed on  
28 shaded bathymetry, assuming a seismic velocity of 1500 m/s in the water column and  
29 different values of seismic velocity within underlying material : 2000 m/s, 3000 m/s and  
30 4000 m/s. Dashed line separates the deeper northern region mentioned in the text from the  
31 shallower southern region.