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## Supplementary Materials for

### **Paired EMI-HIMU hotspots in the South Atlantic—Starting plume heads trigger compositionally distinct secondary plumes?**

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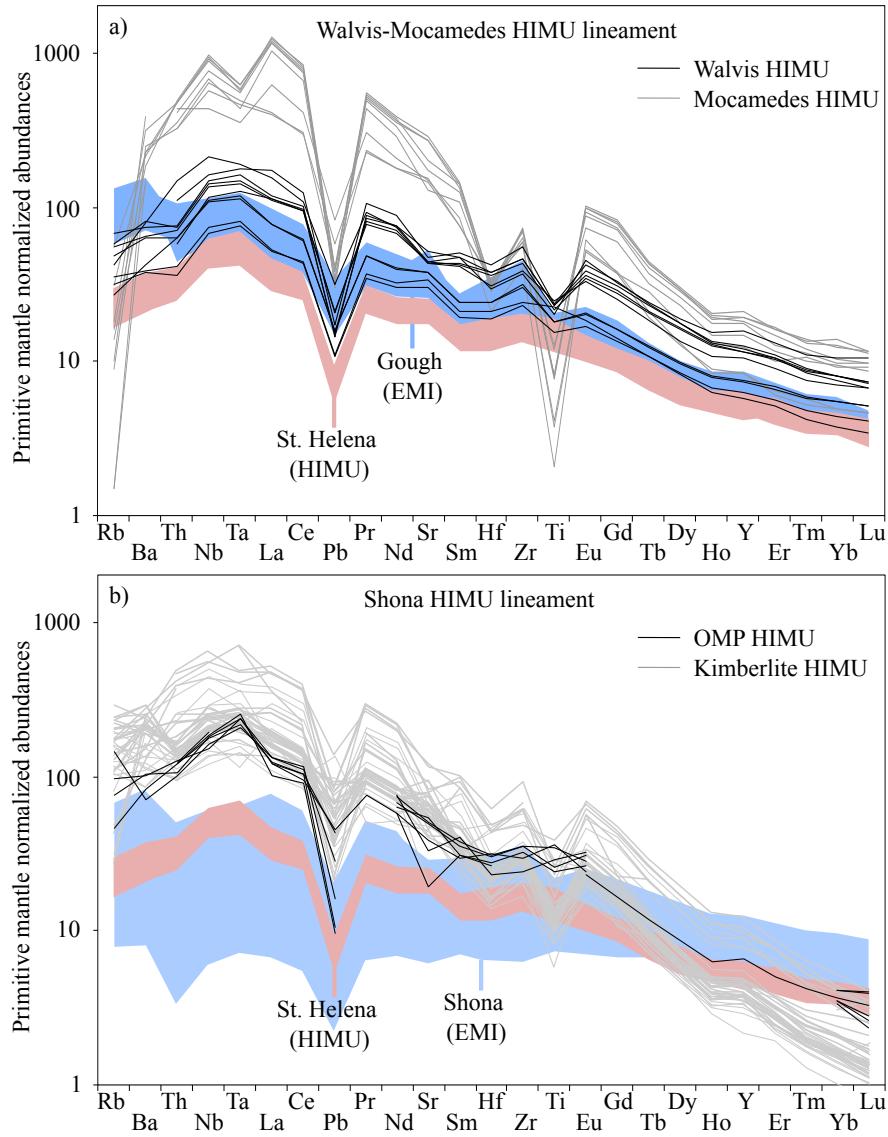
#### **The PDF file includes:**

Figs. S1 and S2

#### **Other Supplementary Material for this manuscript includes the following:**

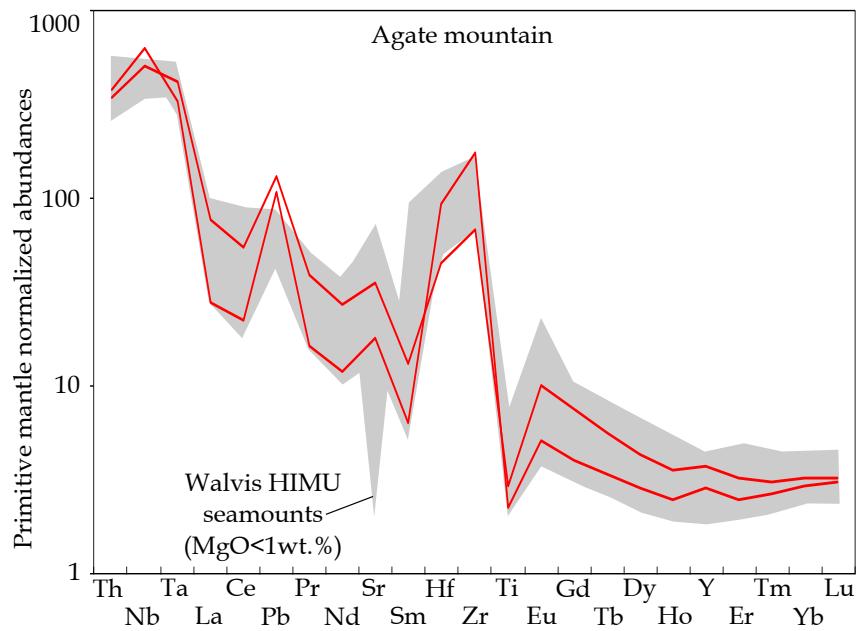
(available at [advances.sciencemag.org/cgi/content/full/6/28/eaba0282/DC1](https://advances.sciencemag.org/cgi/content/full/6/28/eaba0282/DC1))

Sections S1 to S3



**Fig. S1.**

Normalized incompatible element diagram of a) the Walvis-Mocamedes HIMU lineament and b) Shona HIMU lineament compared to St. Helene HIMU composition and the respective EMI hotspot lavas. Literature data is reported in Fig. 3.



**Fig. S2.**

Normalized incompatible element diagram of the reported Agate mountain lavas compared to similar evolved ( $\text{MgO} < 1\text{wt.\%}$ ) Walvis HIMU late-stage lavas. Literature data is reported in Fig. 3.