SM Figure 1: Phase lag estimates ($\hat{φ}, °$) for M2, N2, S2 and K2 semi-diurnal constituents estimated for sliding 60-day window between the high-temperature and the corresponding modeled bottom pressure associated to coherence higher that the chosen threshold (2 ≥ 0.85) for EPR, LSHF and MEF. Colors indicate different vents within each hydrothermal field. Three-month and 1one-month scale bars are shown on each panel for comparative purposes.

SM Table 1: Summary of temperature records used in this study, deployment details, average temperature and spectral estimates. Raw temperature records are publicly available, see source’s column links.