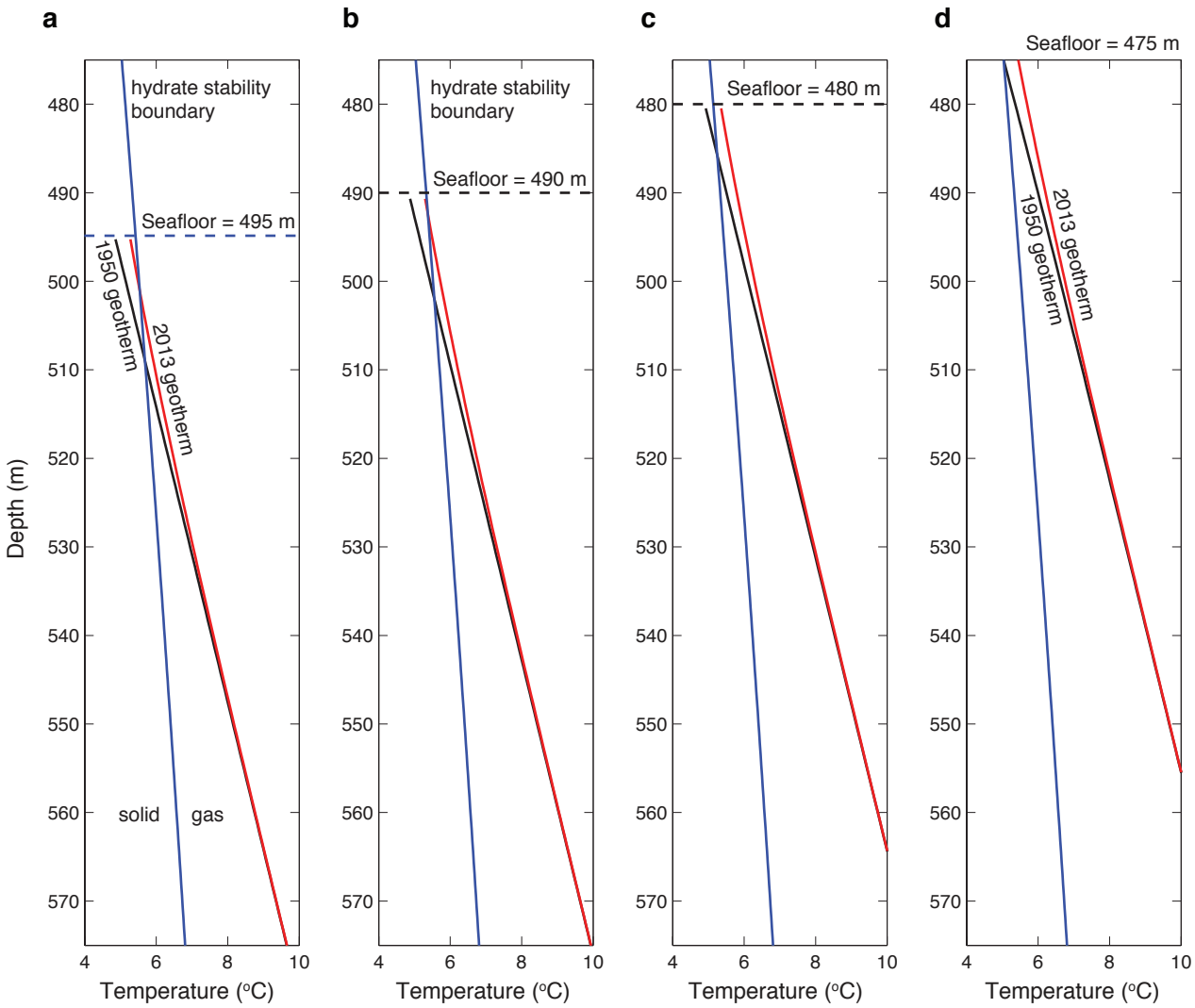

Supplementary Figure 3. Shift in the gas hydrate stability field as a function of seafloor depth along transect P2 between 1950 and 2013 for **a**. seafloor depth = 495 m, **b**. seafloor depth = 490 m, **c**. seafloor depth = 480 m, and **d**. seafloor depth = 475 m. The blue line represents the gas hydrate stability boundary. The 1950 and 2013 geotherms are shown as the black and red lines, respectively. The black dashed line represents the seafloor in each panel.