

Figure F1. Study area and sample locations, Expedition 385. Modified from Teske et al. (2021a).

Figure F2. Downcore profiles of alkalinity, DIC, and $\delta^{13}\text{C}_{\text{DIC}}$, Sites (A) U1545 and (B) U1546. Alkalinity data from Teske et al. (2021c, 2021d). V-PDB = Vienna Pee Dee belemnite.

Figure F3. Downcore profiles of alkalinity, DIC, and $\delta^{13}\text{C}_{\text{DIC}}$, Sites (A) U1547 and (B) U1548. Solid symbols = Hole U1548C, open symbols = Hole U1548D. Alkalinity data from Teske et al. (2021e). V-PDB = Vienna Pee Dee belemnite.

Figure F4. Downcore profiles of alkalinity, DIC, and $\delta^{13}\text{C}_{\text{DIC}}$, Sites (A) U1549 and (B) U1552. Alkalinity data from Teske et al. (2021f, 2021h). V-PDB = Vienna Pee Dee belemnite.

Figure F5. Downcore profiles of alkalinity, DIC, and $\delta^{13}\text{C}_{\text{DIC}}$, Site U1550. Alkalinity data from Teske et al. (2021g). V-PDB = Vienna Pee Dee belemnite.