

**Figure F1.** Total petroleum hydrocarbon [ $C_9$ – $C_{44}$ ] concentrations (mg/kg wet sediment) plotted against in situ temperatures ( $^{\circ}C$ ) for IODP Expedition 385 sediment samples (represented by hole and core section numbers). Dotted vertical lines mark the 65°–80°C transition from the microbial hydrocarbon-degrading temperature window into abiotic hydrocarbon generation.

**Figure F2.** Total saturated hydrocarbon concentrations (mg/kg wet sediment) plotted against in situ temperatures ( $^{\circ}C$ ) for IODP Expedition 385 sediment samples (represented by hole and core section numbers). Dotted vertical lines mark the 65°–80°C transition from the microbial hydrocarbon-degrading temperature window into abiotic hydrocarbon generation.

**Figure F3.** Total polycyclic aromatic [ $\geq 2$  rings] hydrocarbon concentrations (mg/kg wet sediment) plotted against in situ temperatures ( $^{\circ}C$ ) for IODP Expedition 385 sediment samples (represented by hole and core section numbers). Note the changing y-scale  $> 1$  mg/kg. Dotted vertical lines mark the 65°–80°C transition from the microbial hydrocarbon-degrading temperature window into abiotic hydrocarbon generation.