Figure F1. Tectonic setting of study area, Expedition 372.

Figure F2. Bathymetry, Site U1517 location, and seismic sections in study area. Thick lines = seismic section shown in Figure F3. Rectangle around Site U1517 shows location of predrilling P-Cable 3-D seismic reflection data. Site U1519 was logged during Expedition 372 as part of the Hikurangi subduction margin science program (Saffer et al., 2019).

Figure F3. 2-D Seismic Section TAN1114-10b across the TLC. Site U1517 and proposed Site TLC-02 are projected onto the line. Solid line = base of TLC slide mass, dashed line = earlier interpretation of base of creeping (after Mountjoy et al., 2014b).

Figure F4. Hypotheses for gas hydrate–related creeping and predicted resulting sediment microstructure (after Mountjoy et al., 2014b).

Figure F5. In-line Seismic Section 1778 across Site U1517 with predrilling interpretation.

Figure F6. Composite plot of seismic image (In-line 1778) and selected measurements from Site U1517 LWD and cores. cps = counts per second.