

Figure F1. Overview map of the South China Sea and adjacent arcs. Colored dots mark the locations of ODP and IODP drill sites; red triangles indicate active volcanoes at adjacent arcs. Map created using GeoMapApp (<http://www.geomapp.org>; GMRT-Global Multi-Resolution Topography; Ryan et al., 2009).

Figure F2. Core images and smear slide photographs showing different types of ash layers and dispersed ash recovered in the cores, Expeditions 349 and 367/368.

Figure F3. A. Total alkali versus silica classification diagram. B. K_2O versus SiO_2 classification diagram. C. Na_2O versus SiO_2 diagram. D. Ba/Nb versus Zr/Y ratios diagram with correlation fields. Each symbol represents a single glass shard analysis. Preliminary correlation of tephra layers to adjacent volcanic arcs and eruptions (data used to draw the correlation fields were taken from Ku et al., 2008, 2009; Mirabueno et al., 2011; McDermott et al., 2005; Vogel et al., 2006; Yumul et al., 2003; Bernard et al., 1996; Wiesner et al., 1995).

