

## Description of Additional Supplementary Files

**File Name:** Supplementary Data 1

**Description:** TerraceM swath profiles (63 pages). Showing maximum, minimum and average elevation across swath profiles (locations in Supplementary Fig. 2) on Pleiades Digital Surface Model for MIS 5a (a) and MIS 5e (b) terraces. We obtain maximum and minimum estimates for shoreline angle elevation using TerraceM fixed cliff analysis (Jara-Muñoz et al., 2019) and varying possible paleocliff location and paleocliff slope (60- 90°).

**File Name:** Supplementary Data 2

**Description:** Dated Huon Peninsula coral samples from the compilation of Hibbert et al. (2016), with the updated uplift rates as proposed in this study. We also updated our estimates of the latitude and longitude of the samples, based on the descriptions and maps in the original studies. Uplift rate calculations are described in the method section. The uncertainty given here is based on the average uncertainty of T16 (MIS 5e) shoreline angle elevations, Huon RSL during MIS 5e, reference water level, seismic cycle influence, DSM elevation and time of terrace formation (see Methods). Additionally we note that there is unknown uncertainty in the location of the samples here. There are no latitude/longitude values given for the samples in any of the references, and only reference 22 (Stein et al., 1993) presents sample locations in a detailed map. We did not determine accurate uplift rates for the Bobongora section as it is not clearly connected, and deformed differently than the terraces at the other sample sites, so we use the same rough estimate as in Supplementary Fig. 2.

**File Name:** Supplementary Data 3

**Description:** Stacked swath profiles across terrace sequence (15 pages). E-W oriented stacked swath profiles of Pleiades Digital Surface Model (DSM) at 2m resolution (locations in Supplementary Fig. 4) and range of shoreline angle estimates for different terraces (same colorcode as Fig. 2)

**File Name:** Supplementary Data 4

**Description:** Best fit lines through shoreline angles. (5 pages) Shoreline angle ranges derived from Supplementary Data 2, with weighted best fitting linear regression results including standard errors (min./max.).