**Supplementary Table 1a - Detailed information on location and inferred age of coral samples.**

All coordinates displayed in decimal degrees and using the WGS84 datum. All ages should be interpreted as indicative only, unless supported by high-confidence isotopic U-Th disequilibrium ages (bold dates).

**Supplementary Table 1b - Detailed information on the morphological description of coral specimens.**

**Supplementary Table 2 - Reference papers and published keys to all genera and species of Scleractinian corals identified in this study.**

**Supplementary Material - Identification key based on specimens found at Cabo Verde Archipelago.**