

**APPENDIX S5.** Sensitivity analysis showing historical and modern habitat suitability model coefficients and variability of prediction repetitions (error bars) around the historical model coefficient. (a) Depth: seabed depth (m); slope: seabed slope (%); di\_1000m: distance to 1000m isobath (km); di\_seaM: distance to seamount (km); di\_spRid: distance to spreading ridge (km).