**Supplementary material 3:** Catalogue of geomorphological classes.

| **Carbonates (slab)**  Bright, flat, smooth |  |
| --- | --- |
| **Volcanics (lava flow)**  Dark, rugged relief, vacuolar |  |
| **Mixed**  Carbonate + sand + volcanic |  |
| **Sedimentary**  Elongated ridges, smooth, domal, interspersed with rocks |  |