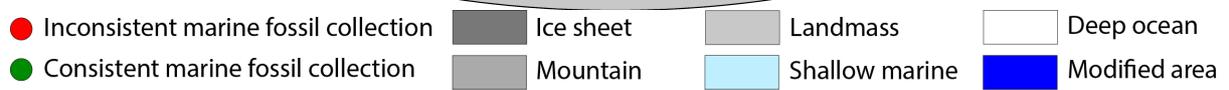
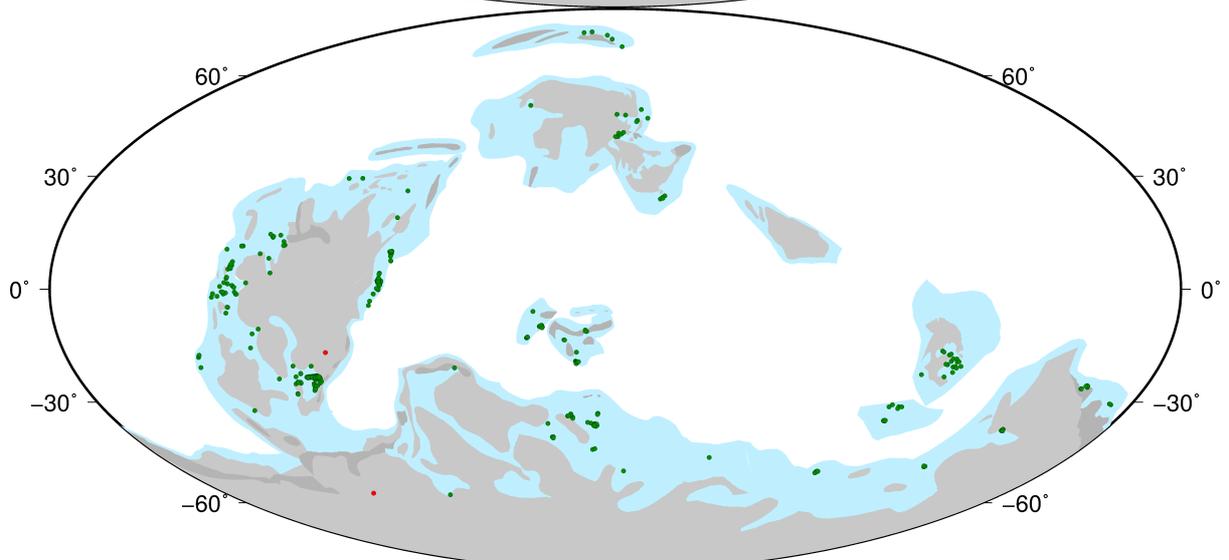
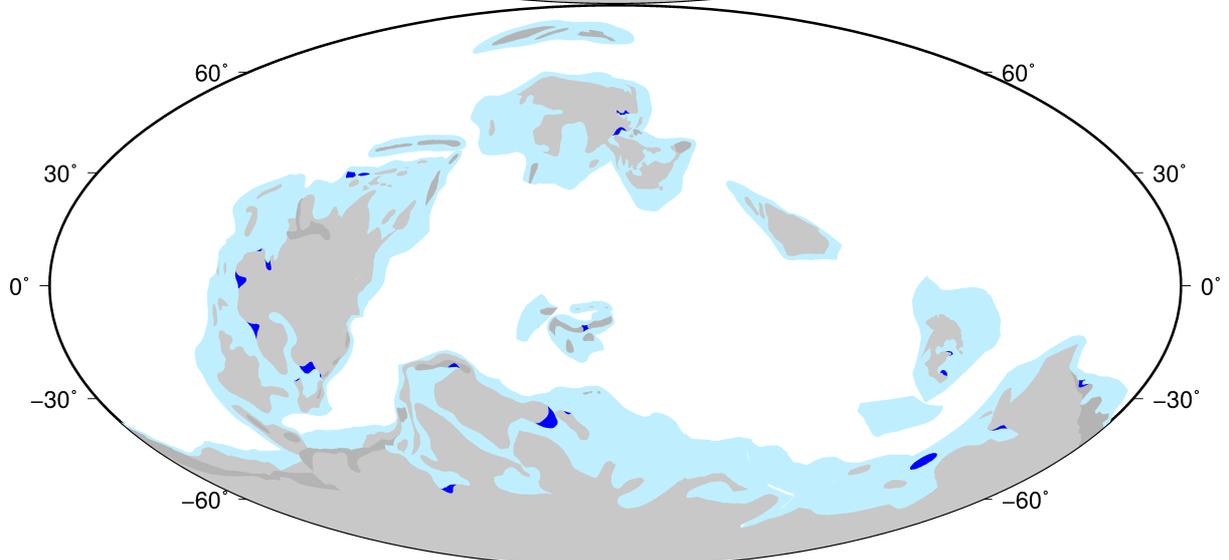
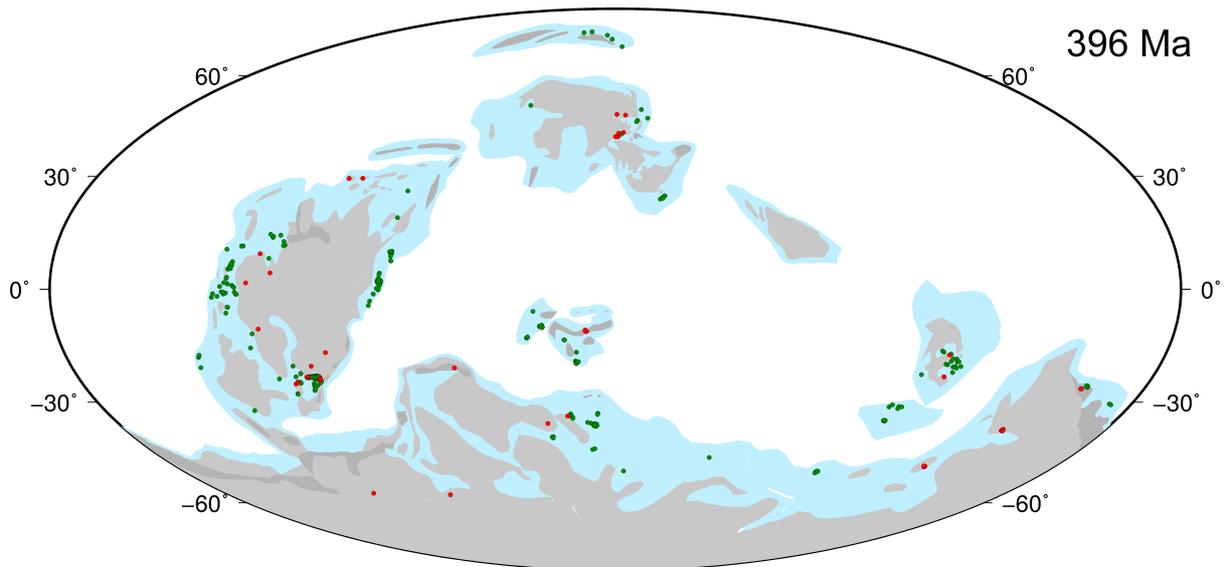


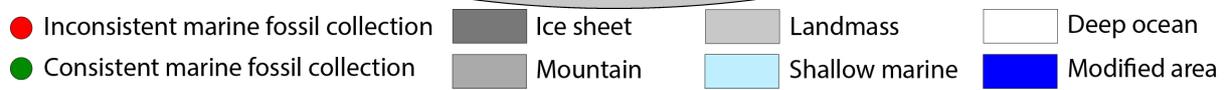
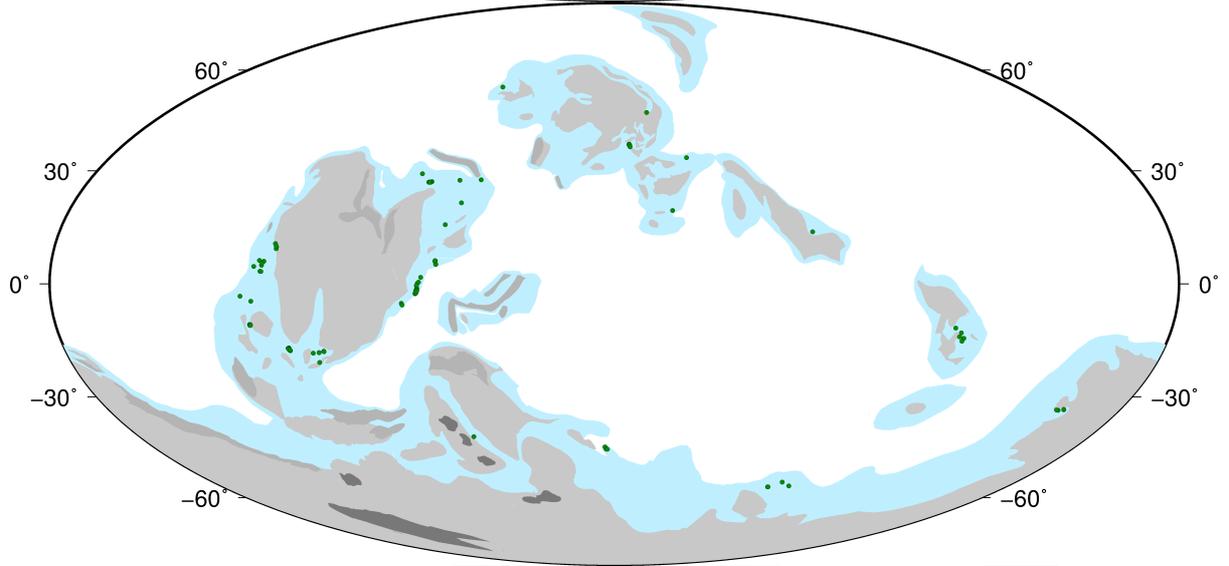
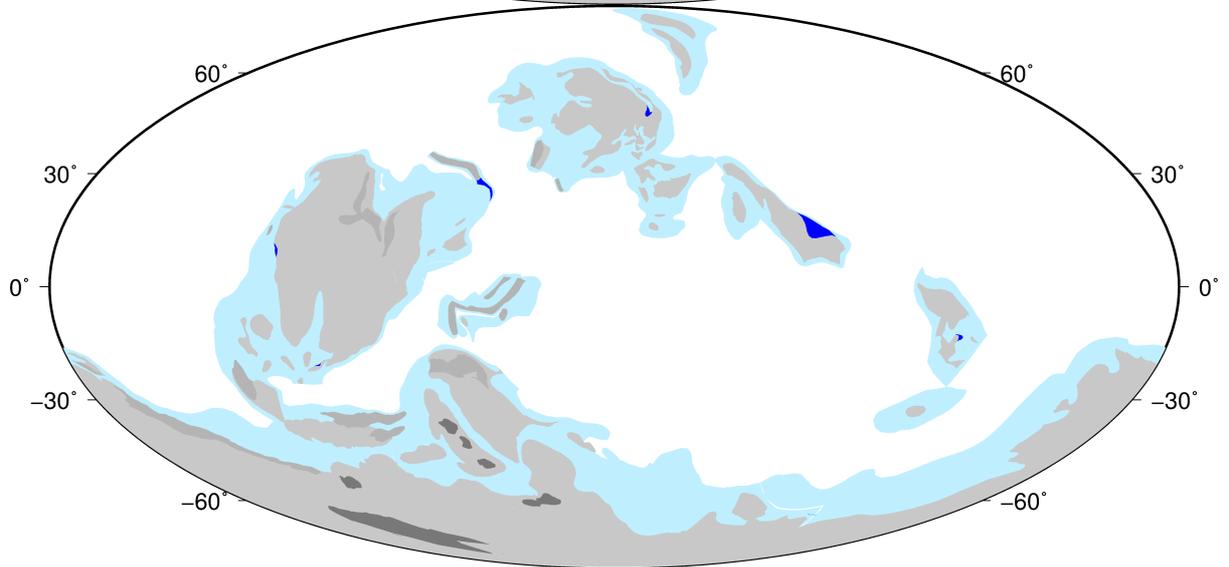
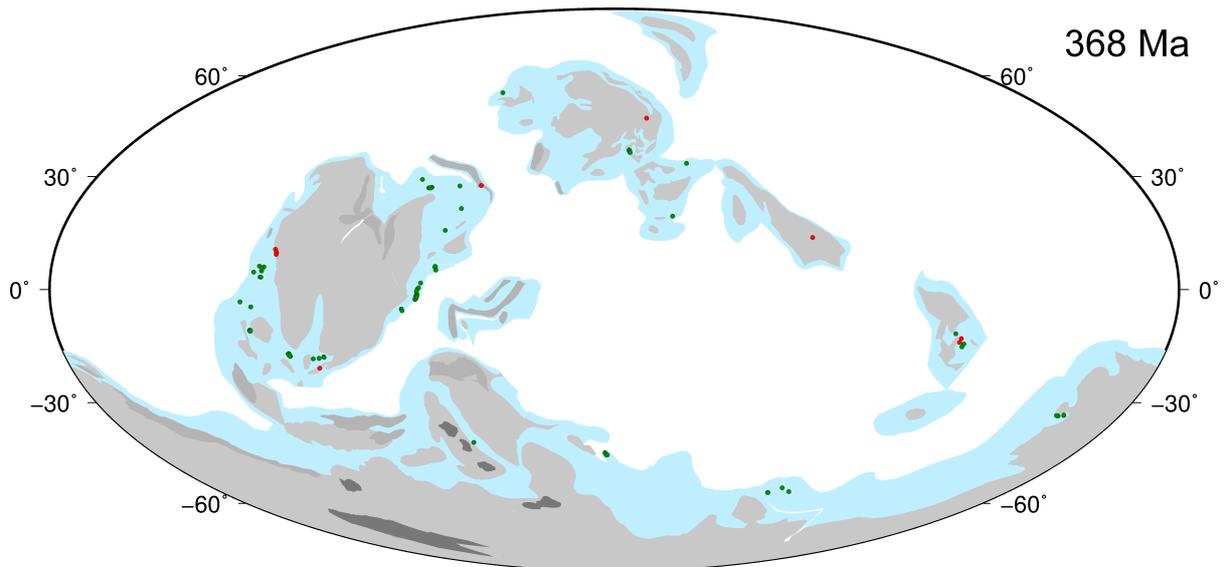
## Interactive comment on “Improving global paleogeography since the late Paleozoic using paleobiology” by Wenchao Cao et al.

Wenchao Cao et al.

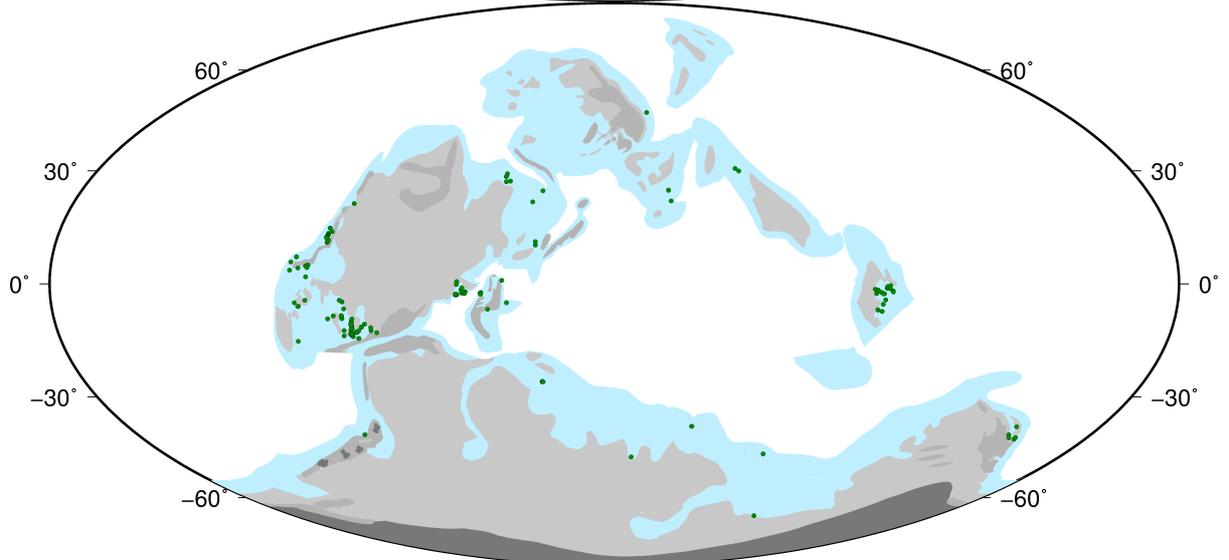
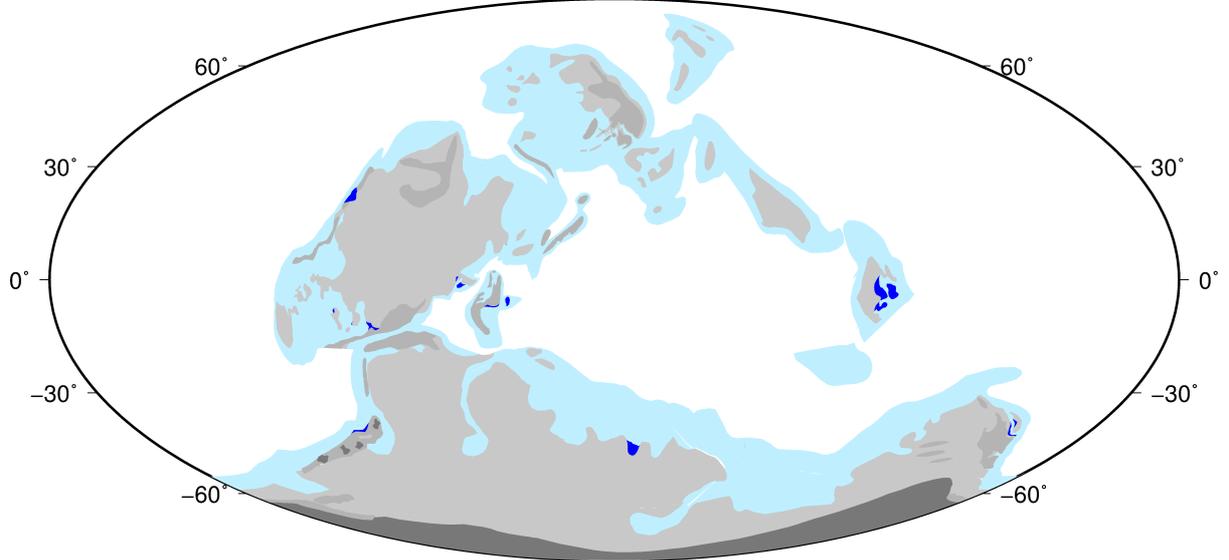
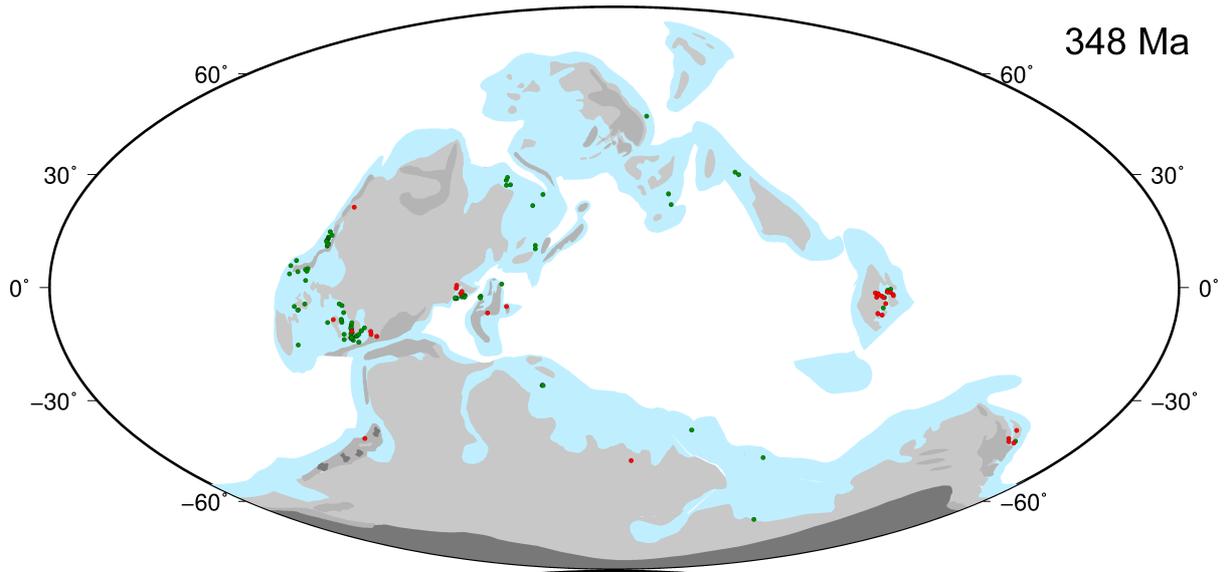
[wenchao.cao@sydney.edu.au](mailto:wenchao.cao@sydney.edu.au)

**Supplement. Top panels.** Test between the global paleogeography reconstructed using the plate motion model of Matthews et al. (2016) with gaps fixed and the paleo-environments indicated by the marine fossil collections from the Paleobiology Database. **Middle panels.** Areas modified (blue) to resolve the test inconsistencies. **Bottom panels.** Test between the revised paleogeography and the same marine fossil collections. Results are presented for all time slices. Mollweide projection with 0°E central meridian.

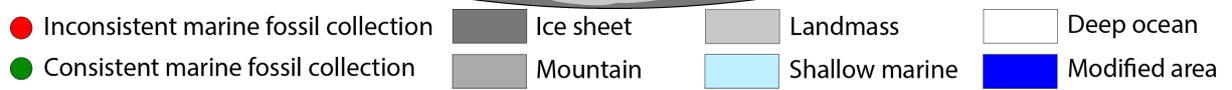
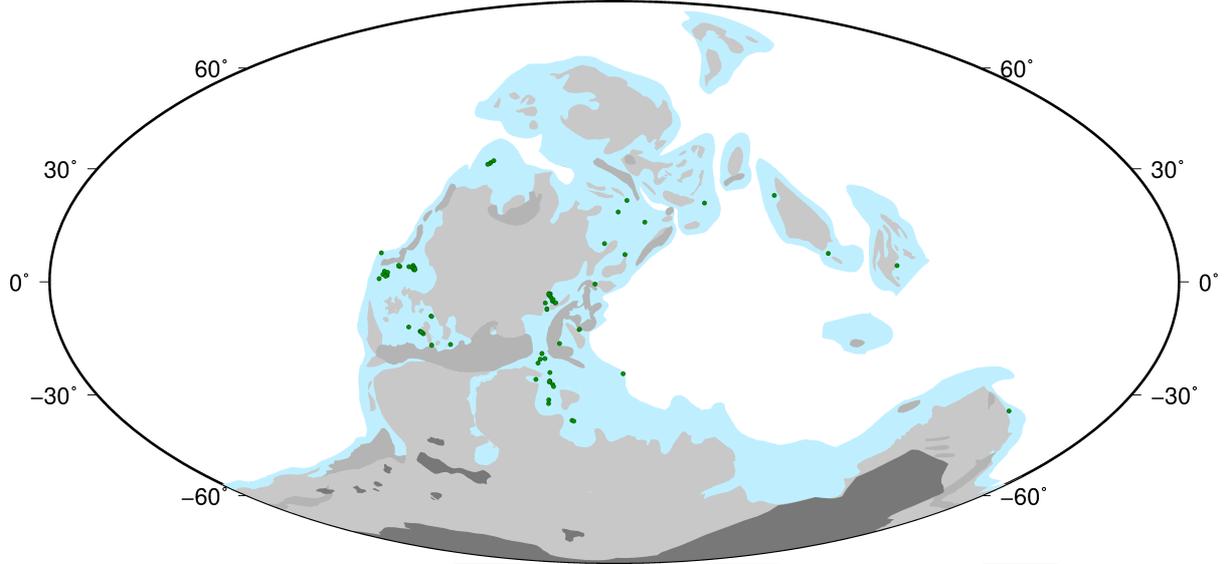
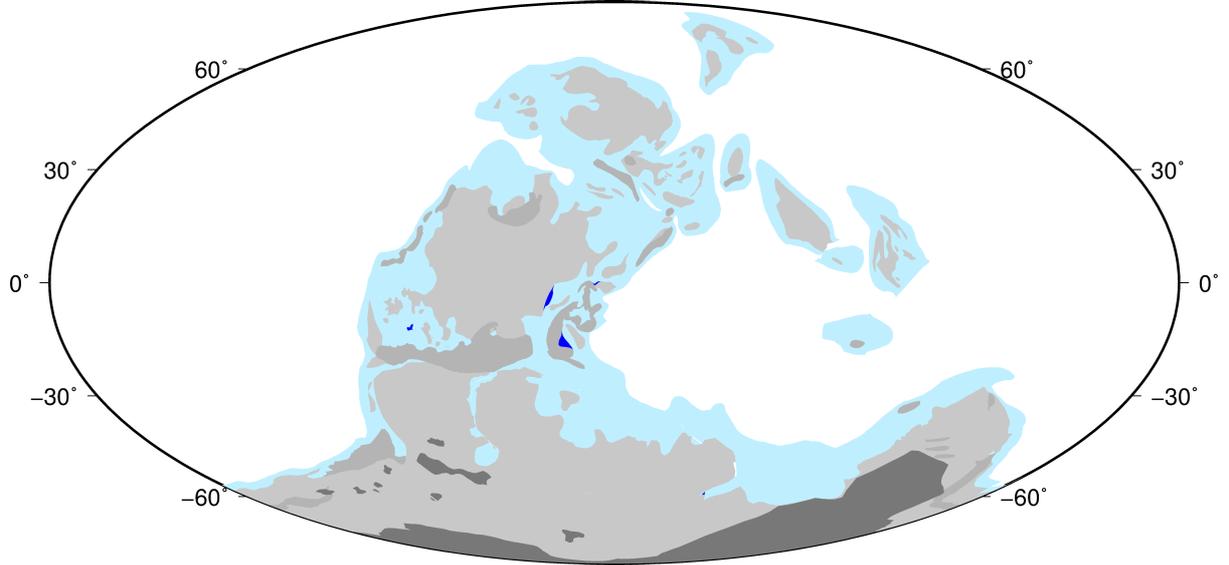
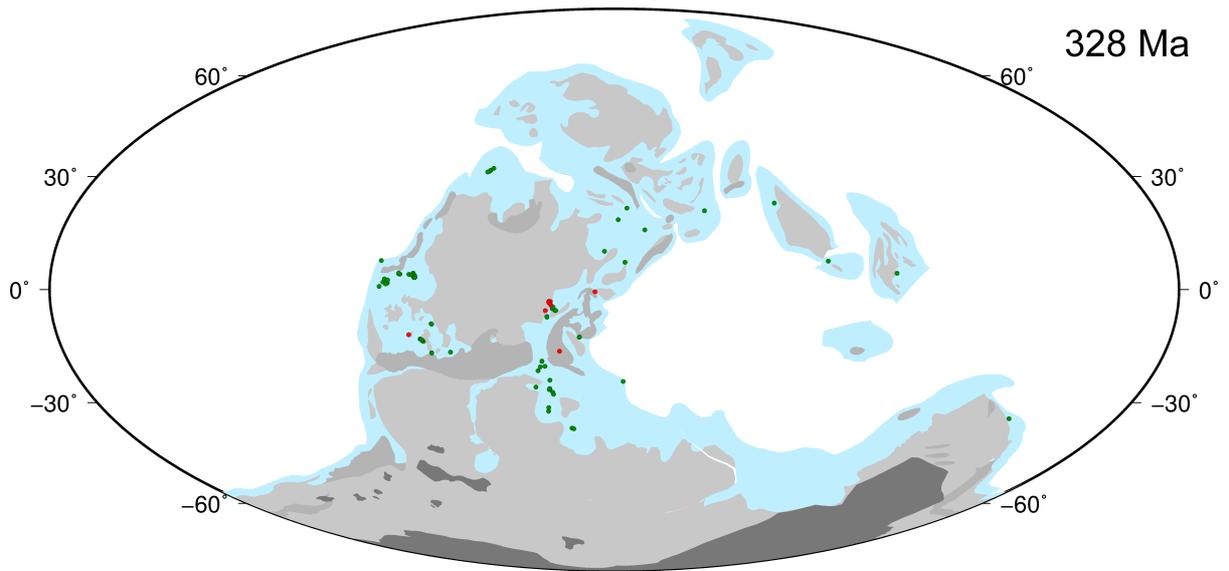


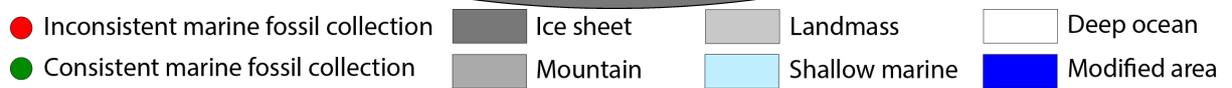
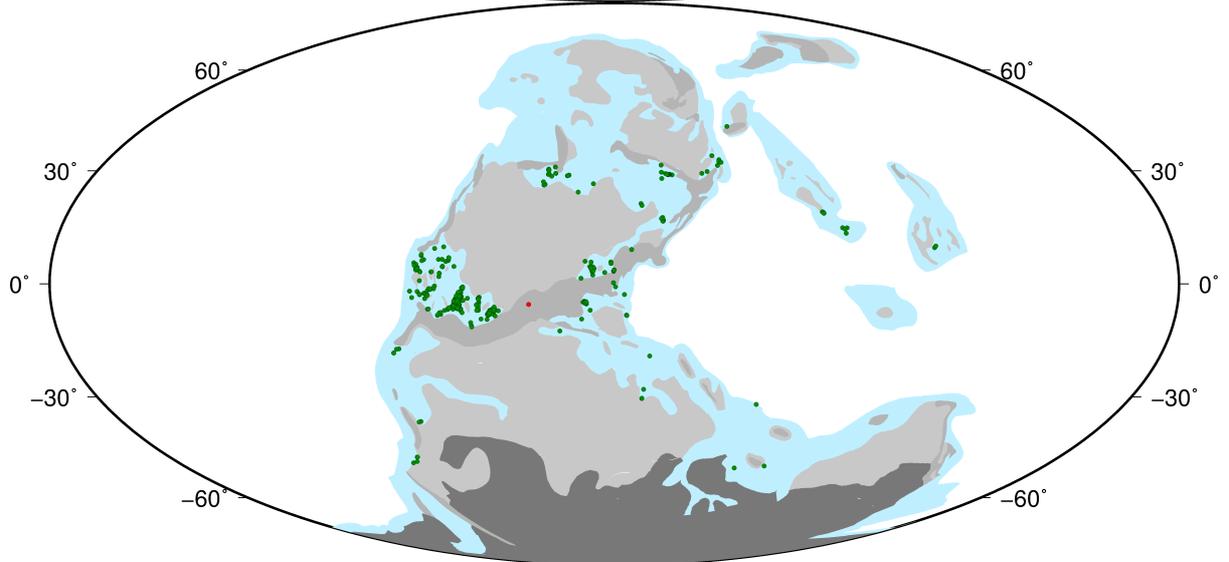
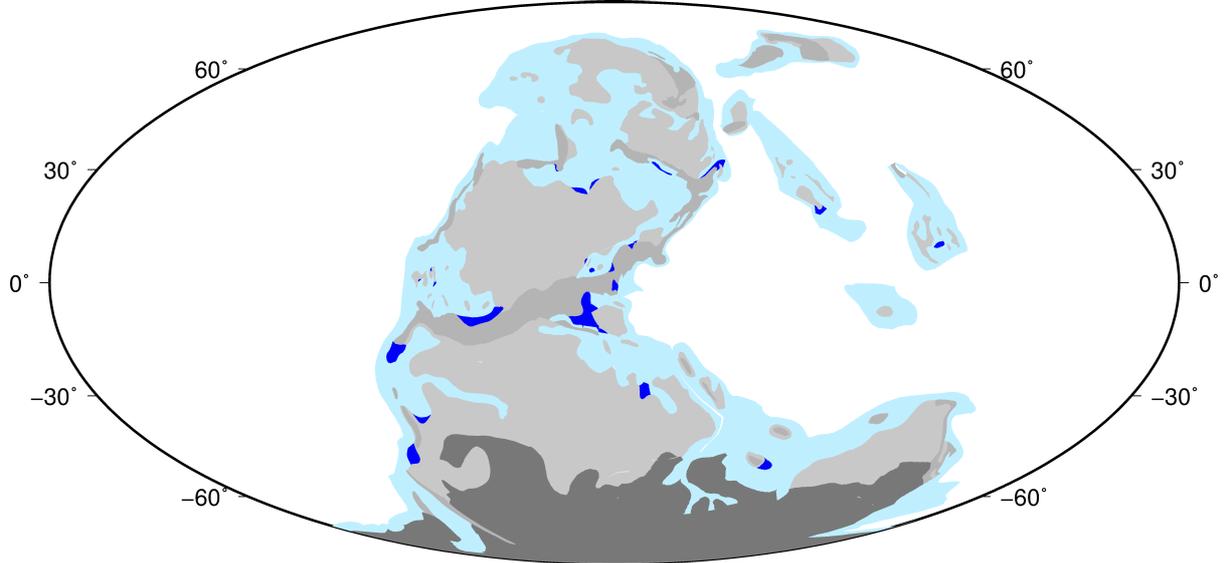
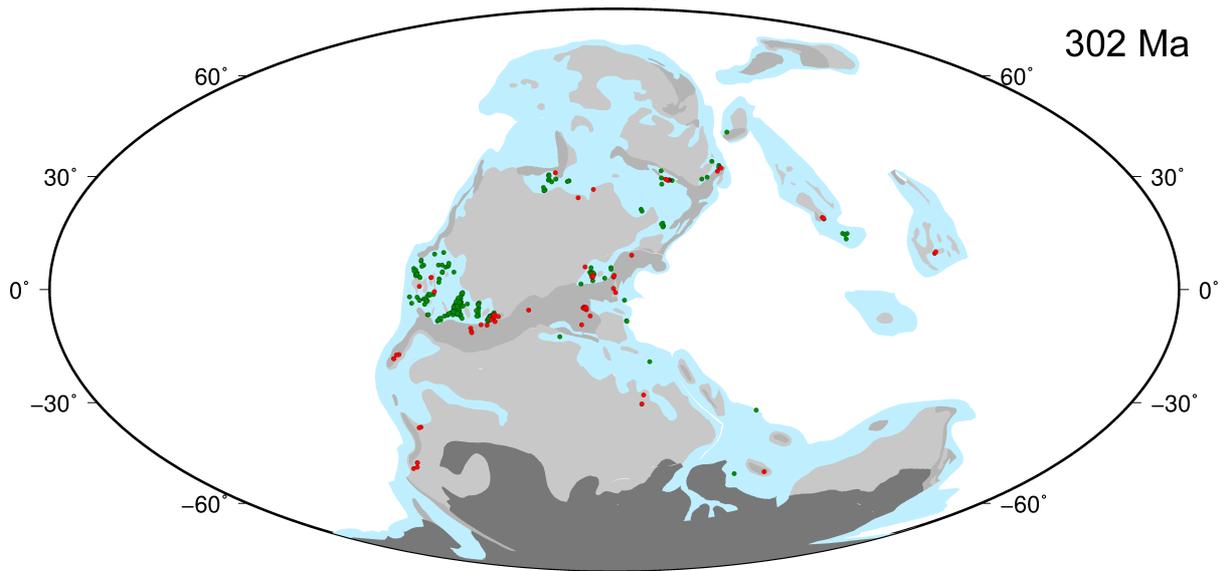


348 Ma

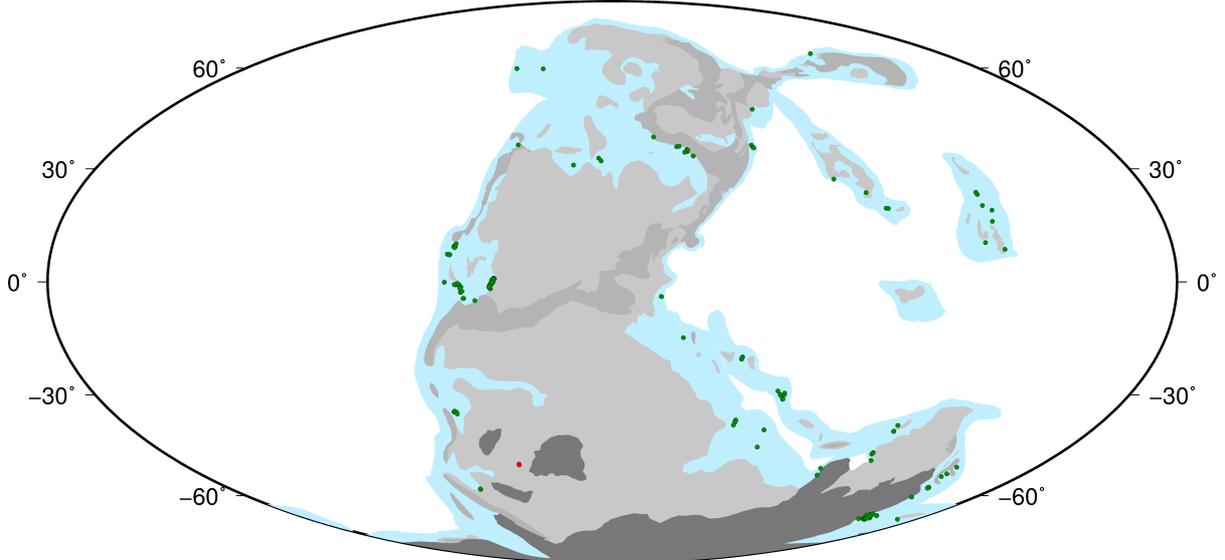
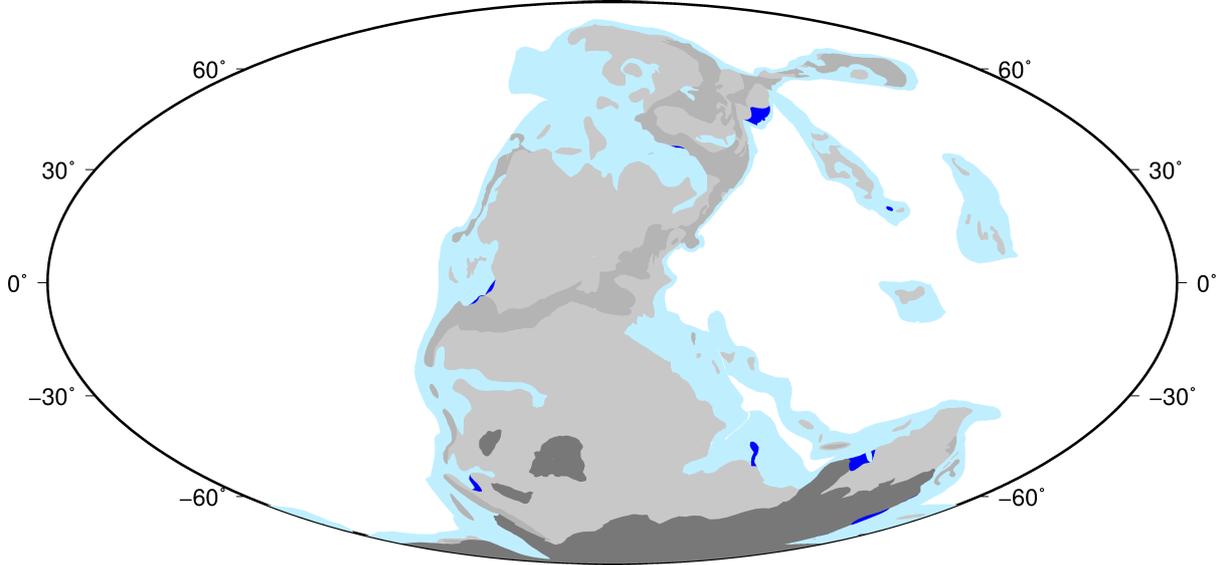
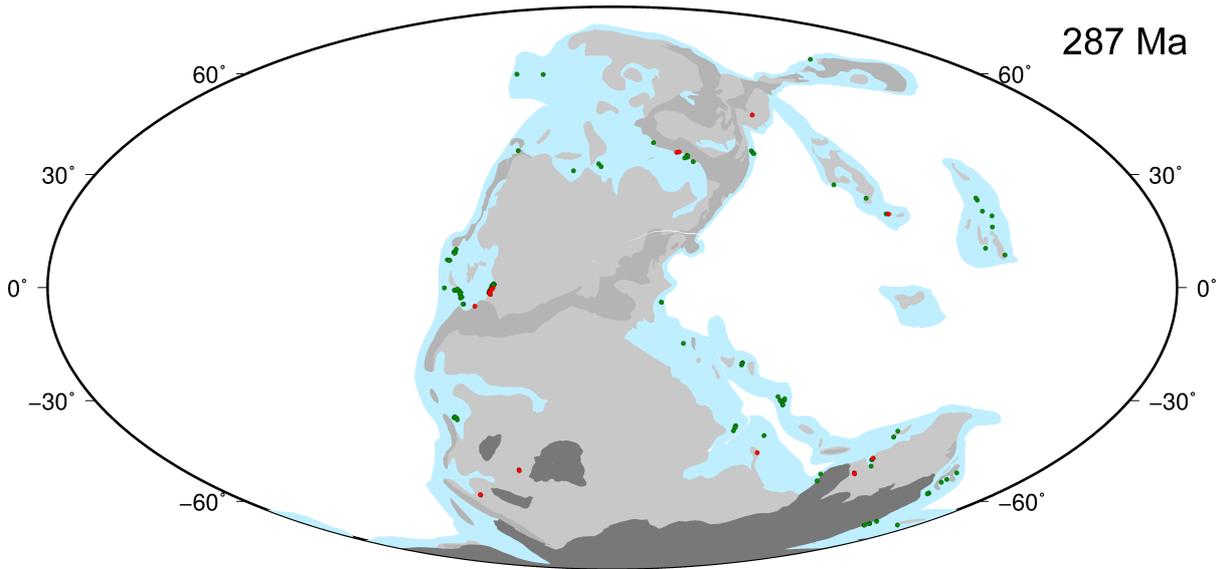


- |                                       |           |                |               |
|---------------------------------------|-----------|----------------|---------------|
| Inconsistent marine fossil collection | Ice sheet | Landmass       | Deep ocean    |
| Consistent marine fossil collection   | Mountain  | Shallow marine | Modified area |

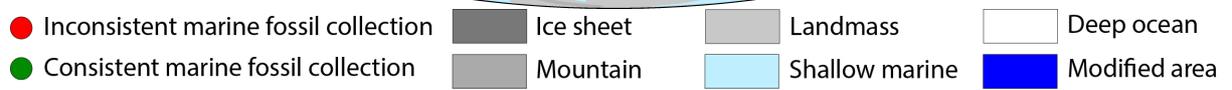
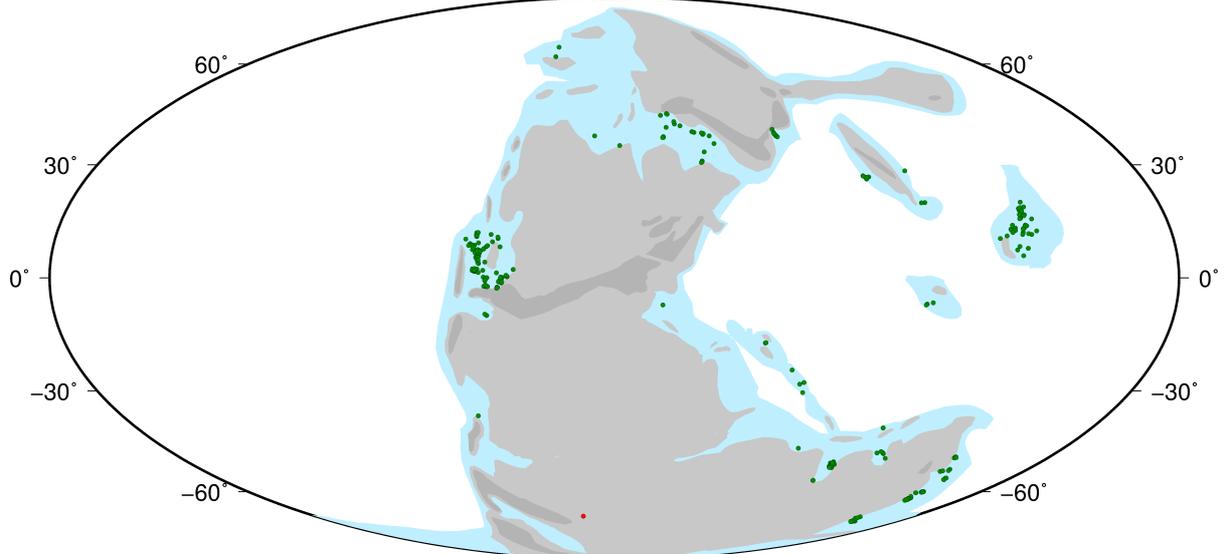
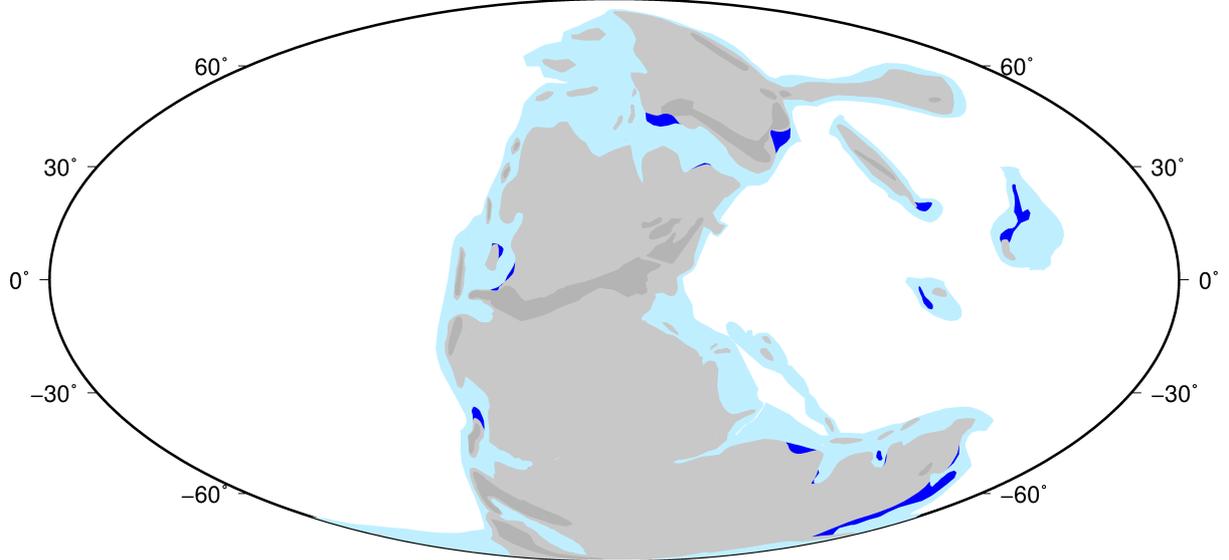
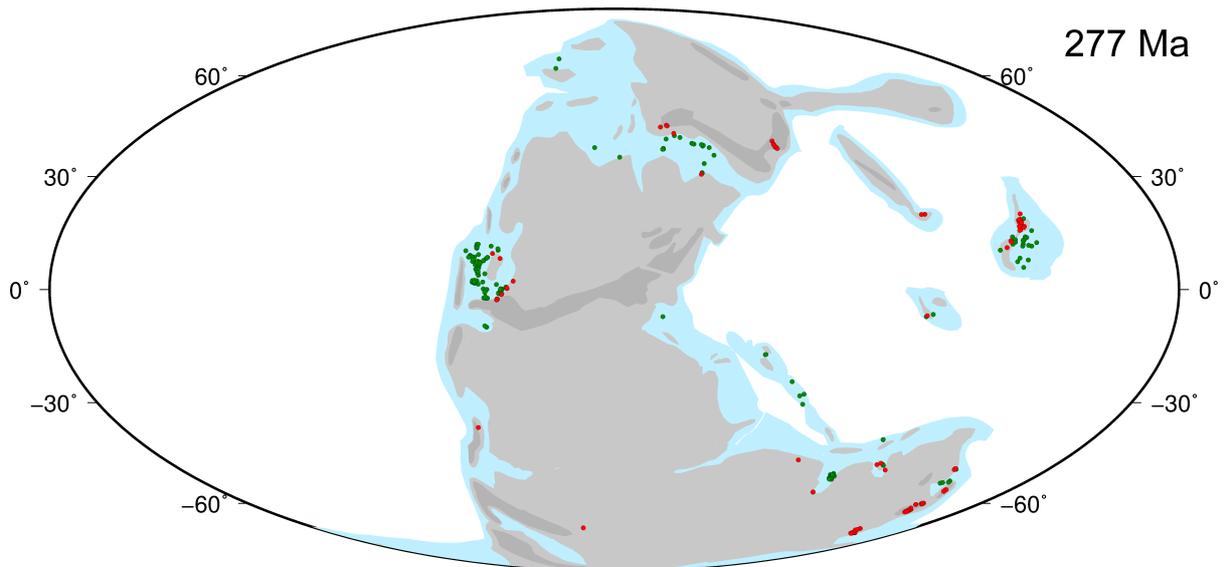


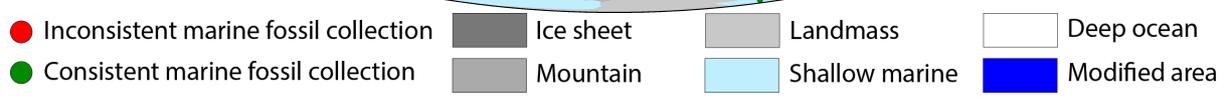
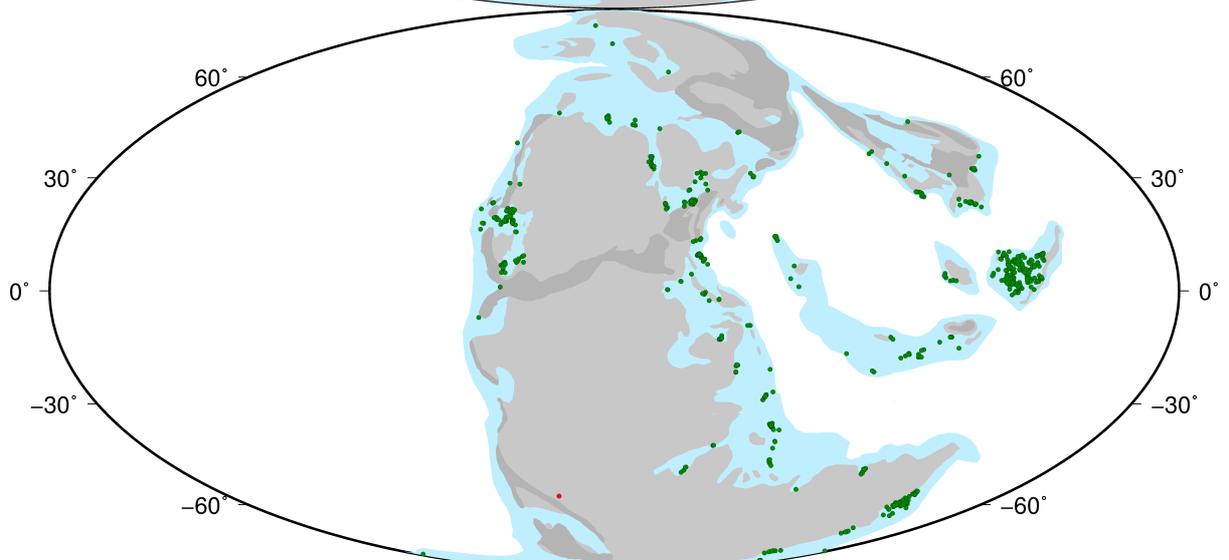
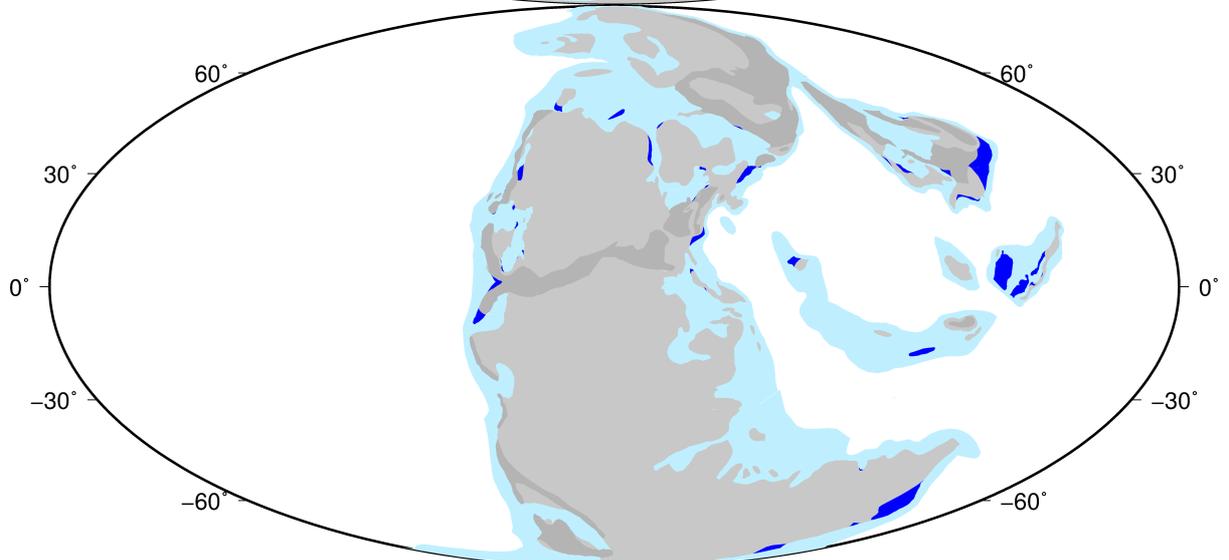
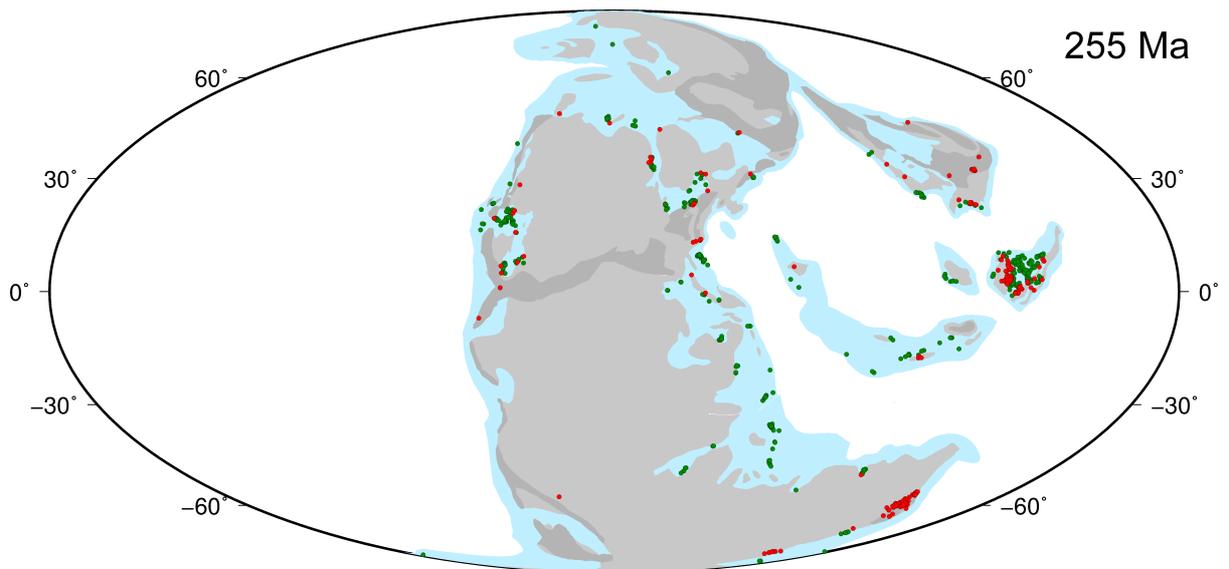


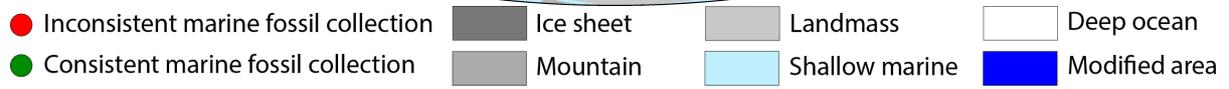
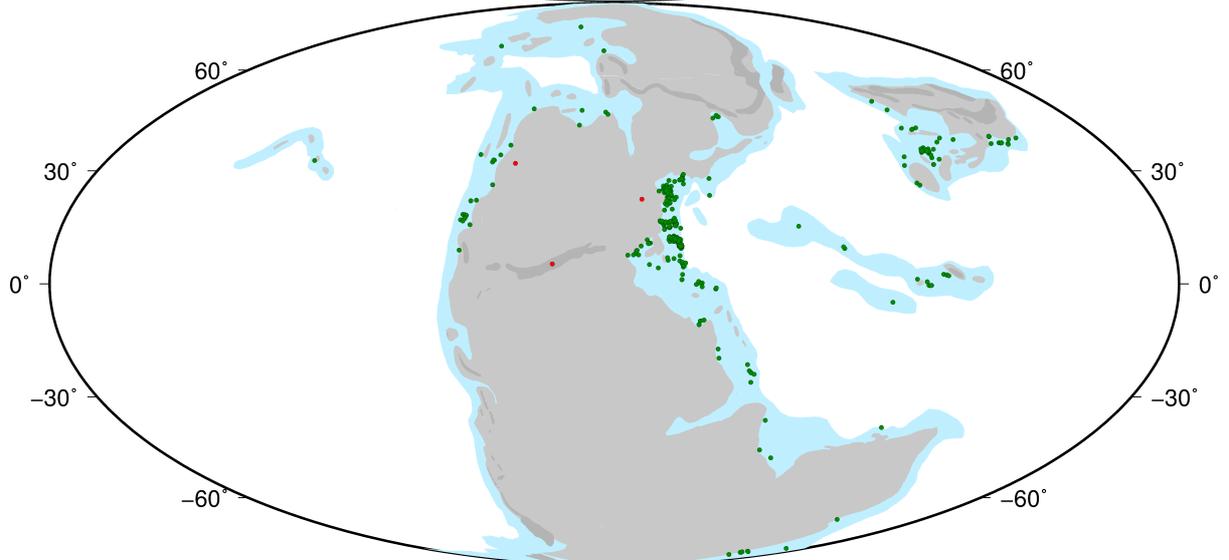
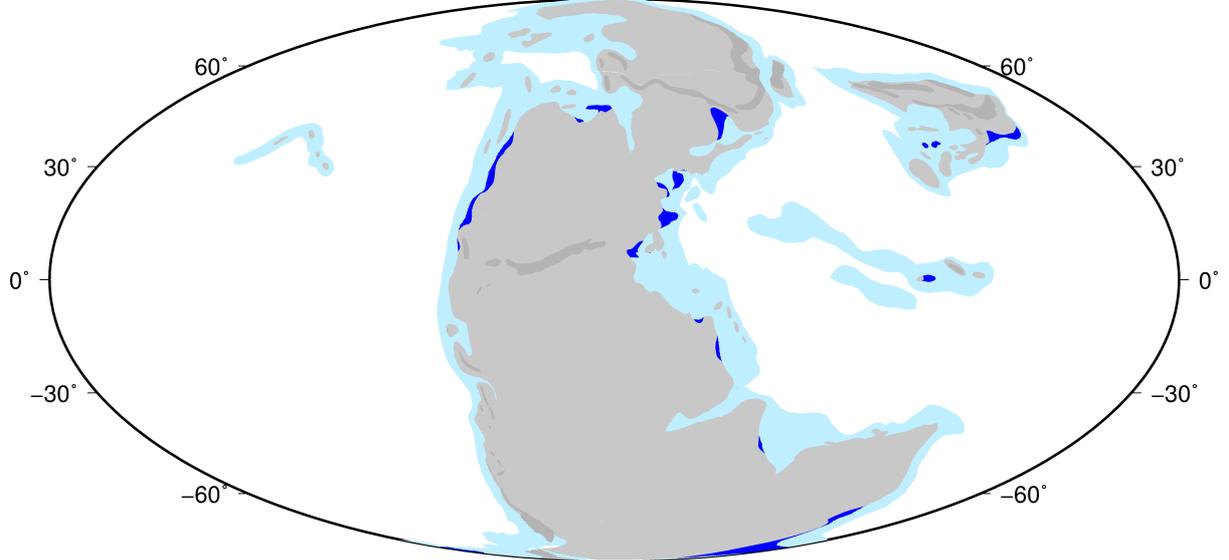
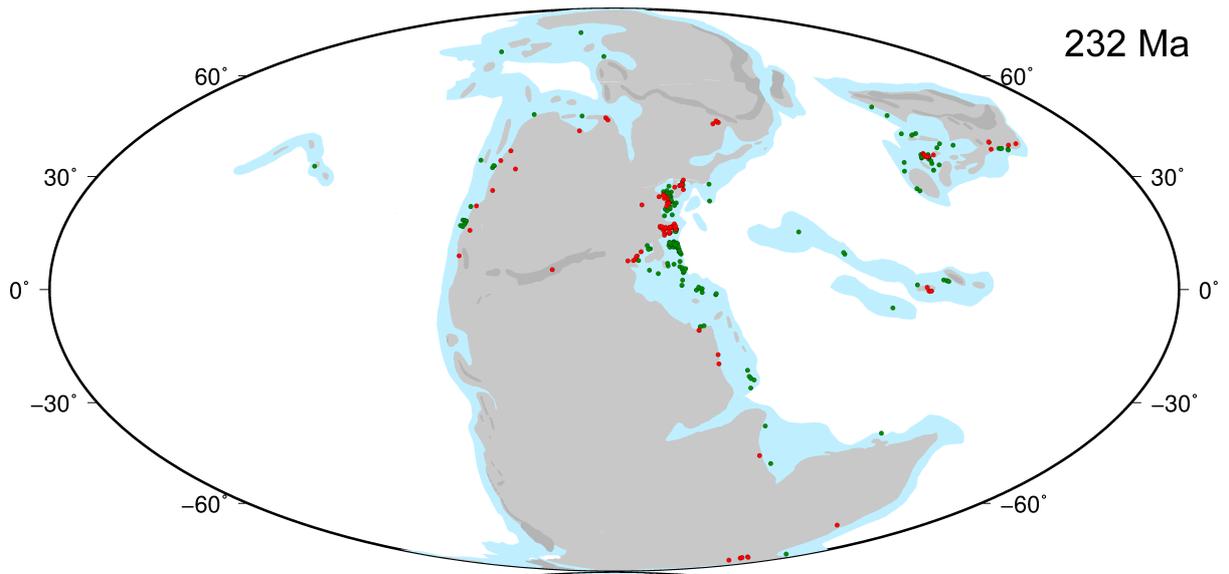
287 Ma



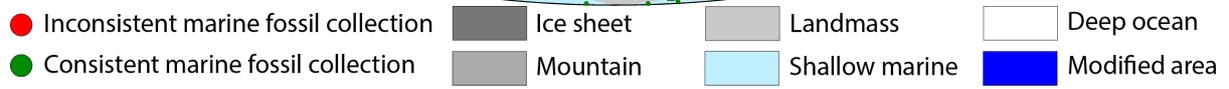
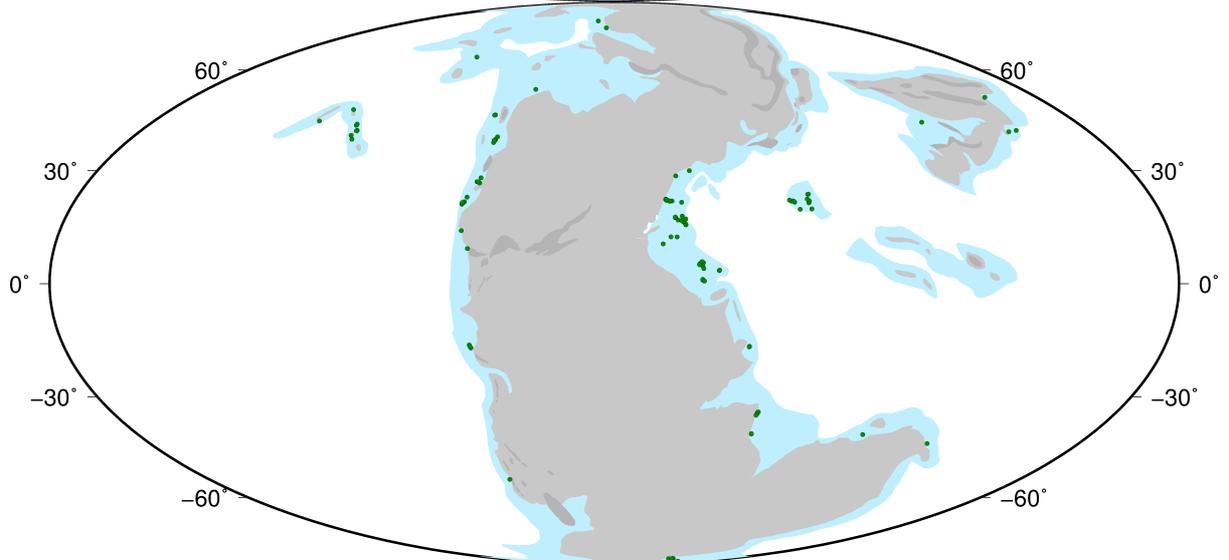
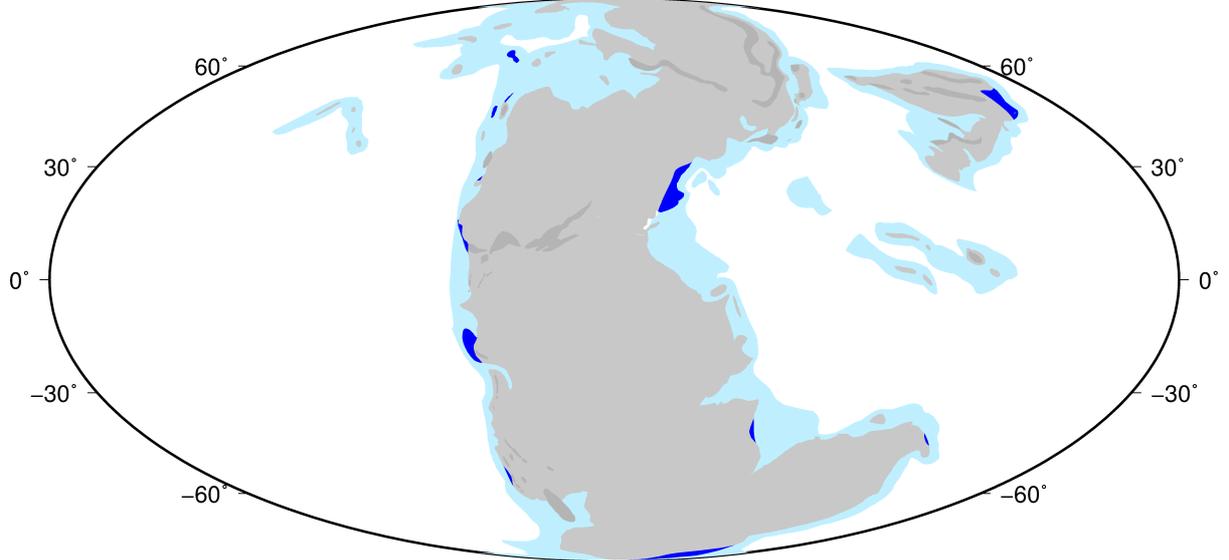
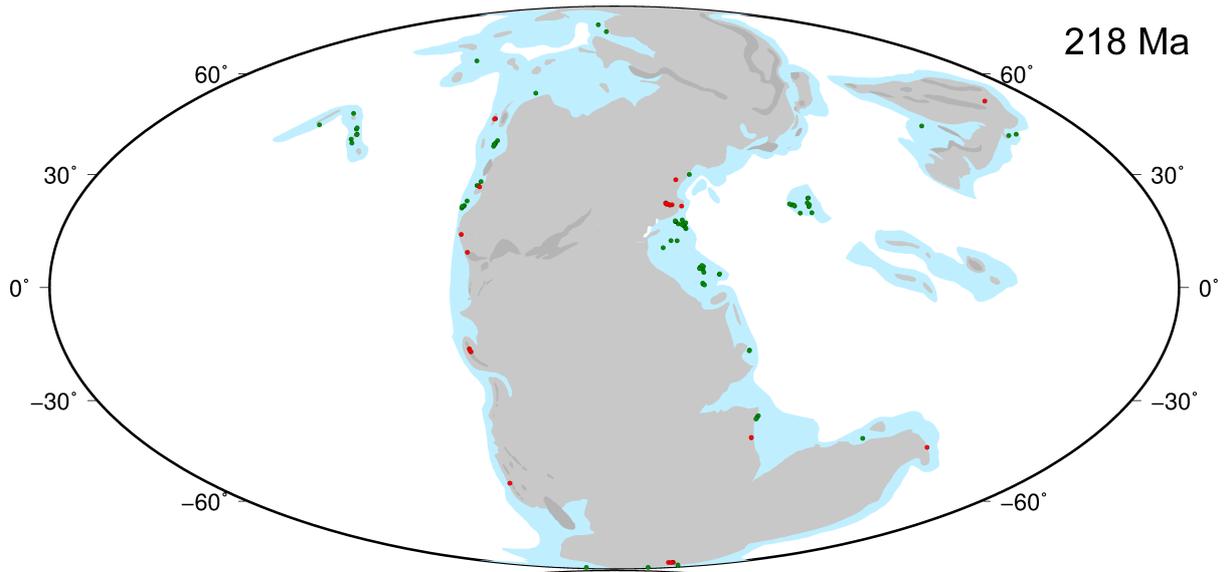
- |                                       |           |                |               |
|---------------------------------------|-----------|----------------|---------------|
| Inconsistent marine fossil collection | Ice sheet | Landmass       | Deep ocean    |
| Consistent marine fossil collection   | Mountain  | Shallow marine | Modified area |

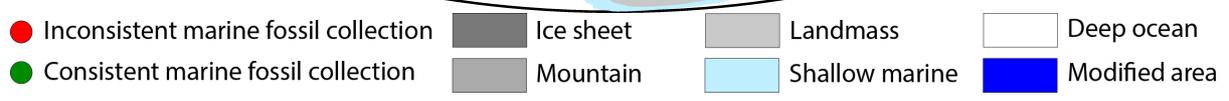
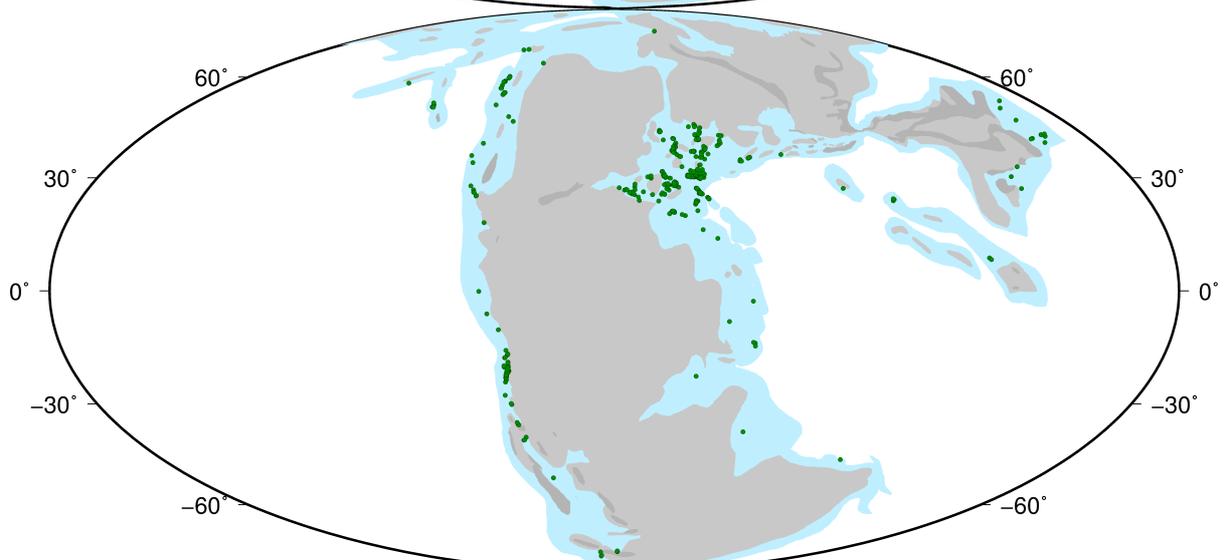
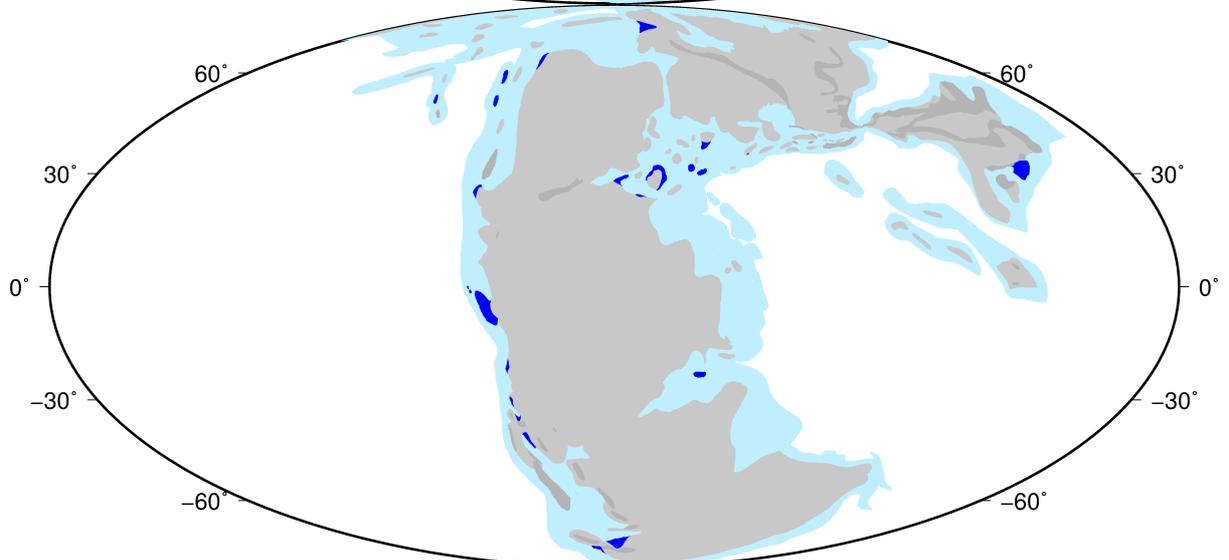
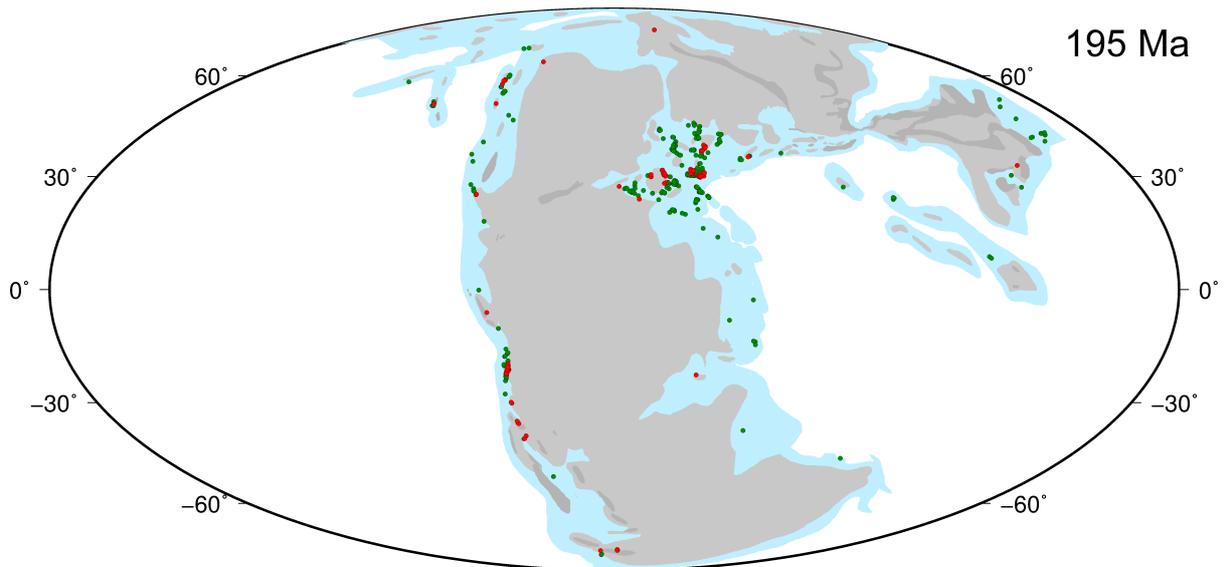


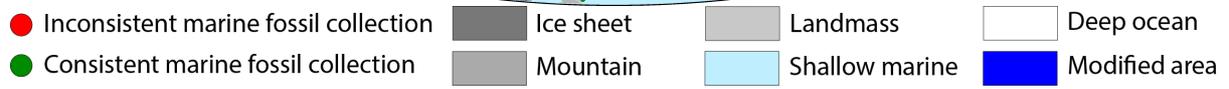
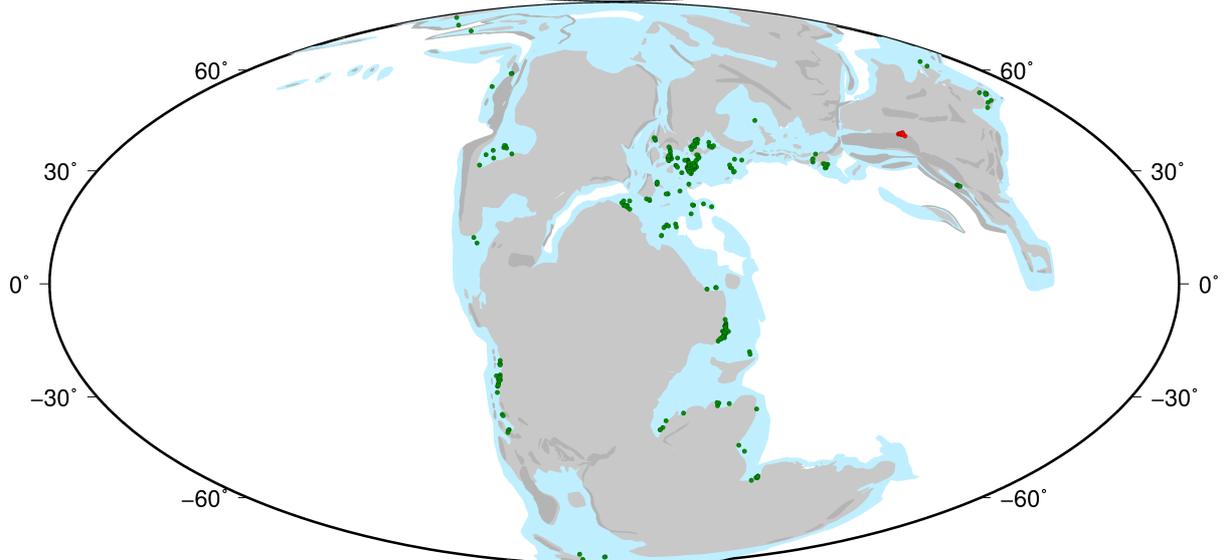
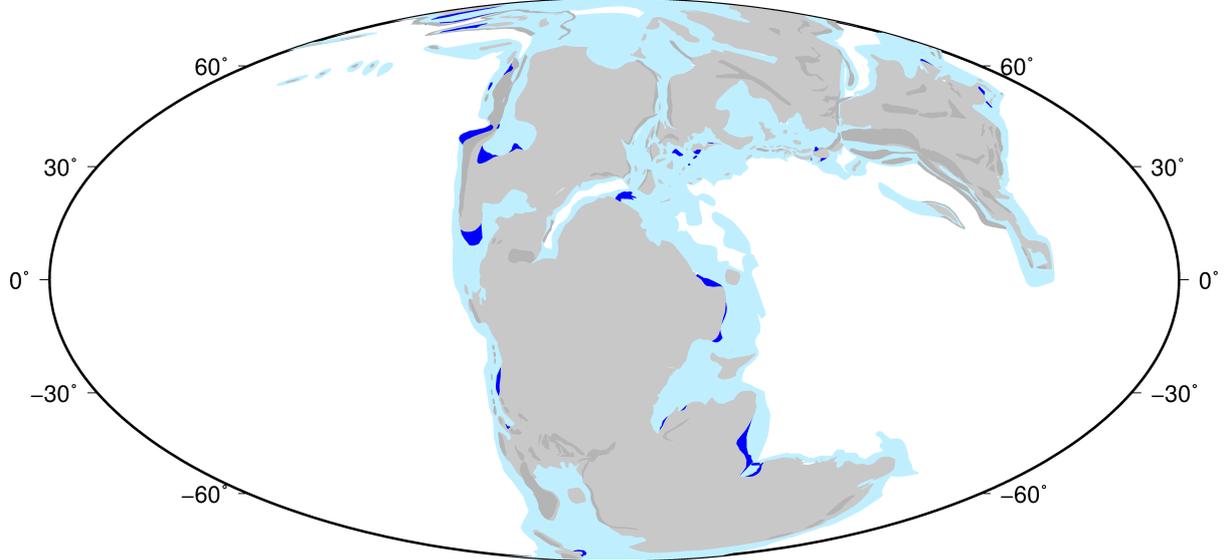
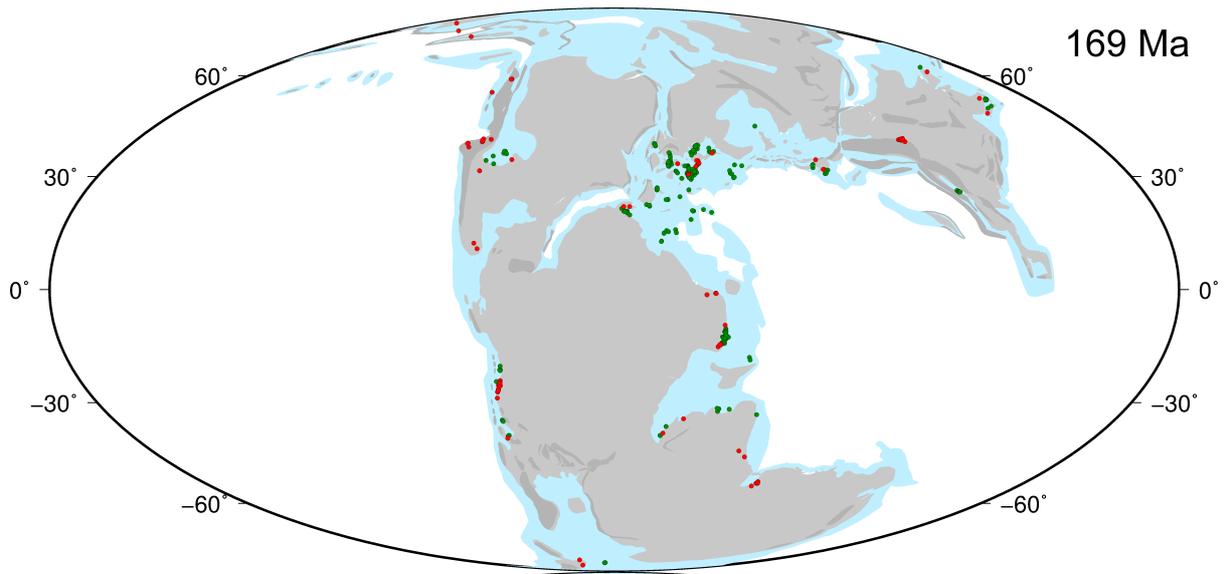


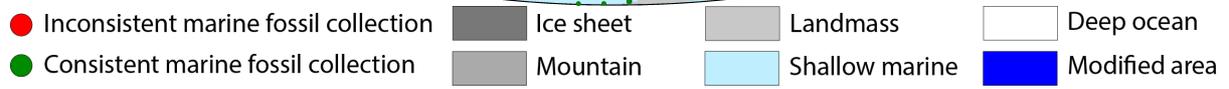
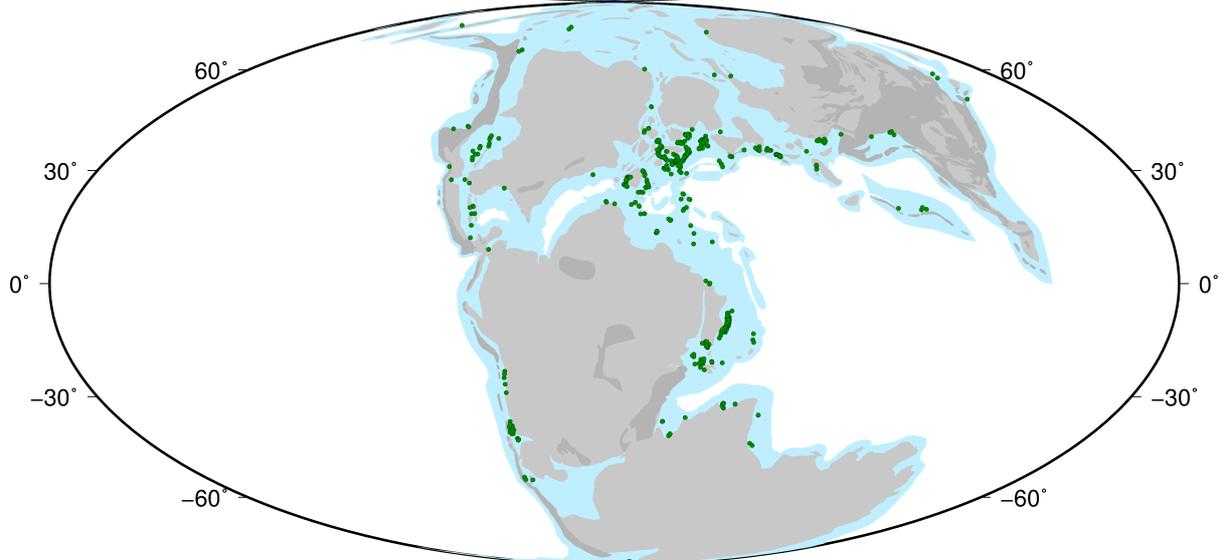
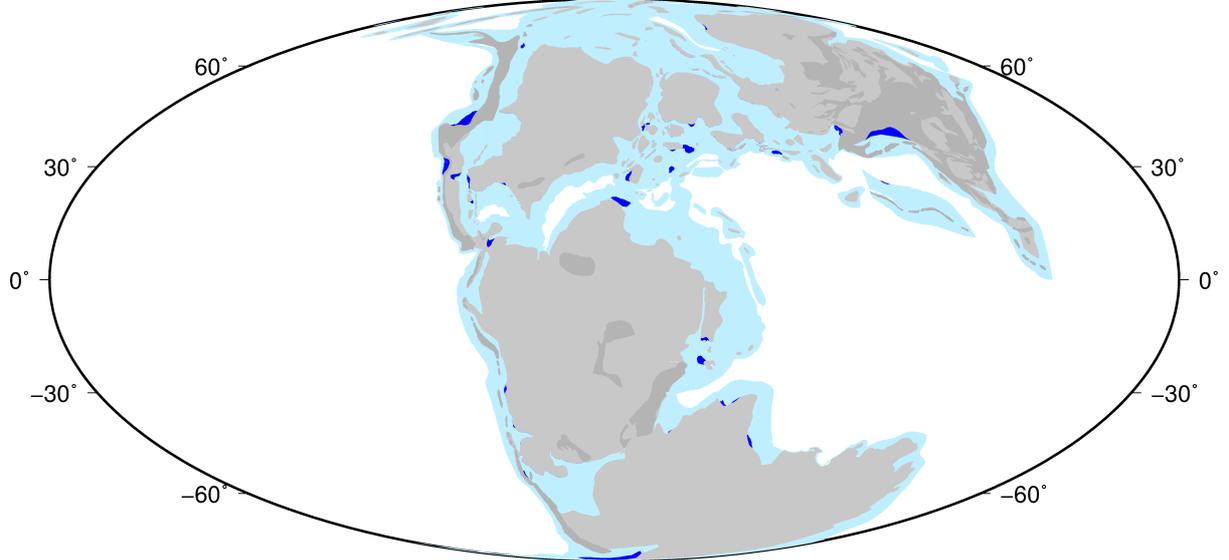
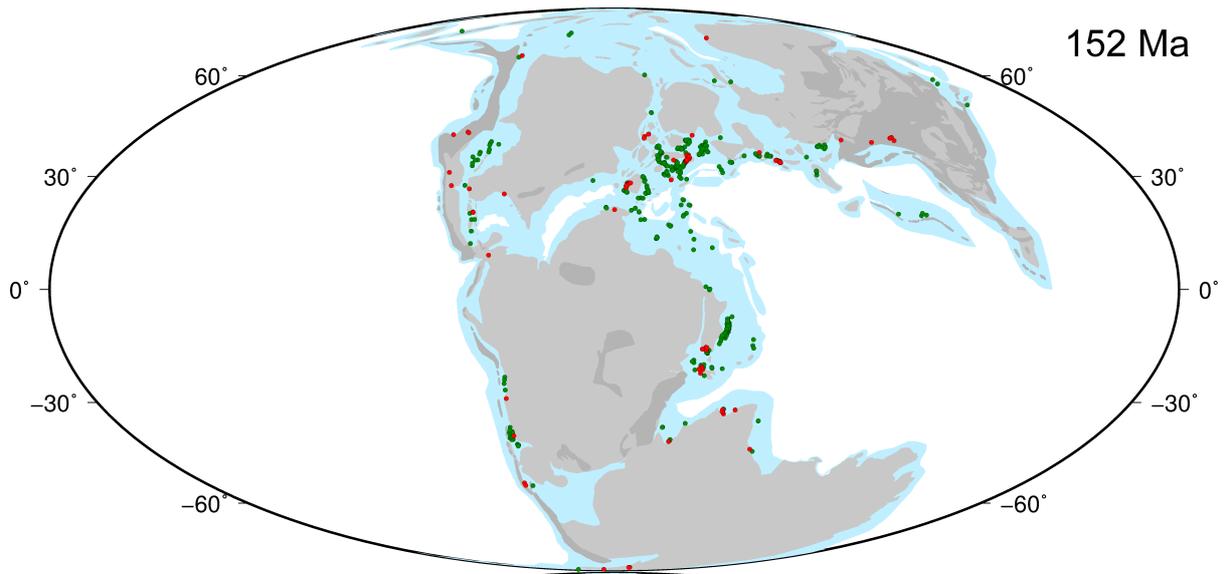


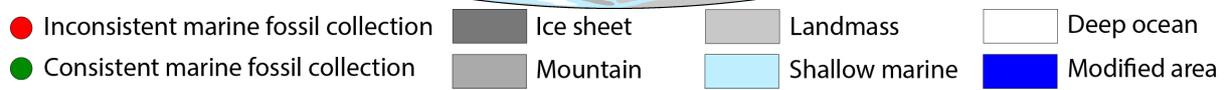
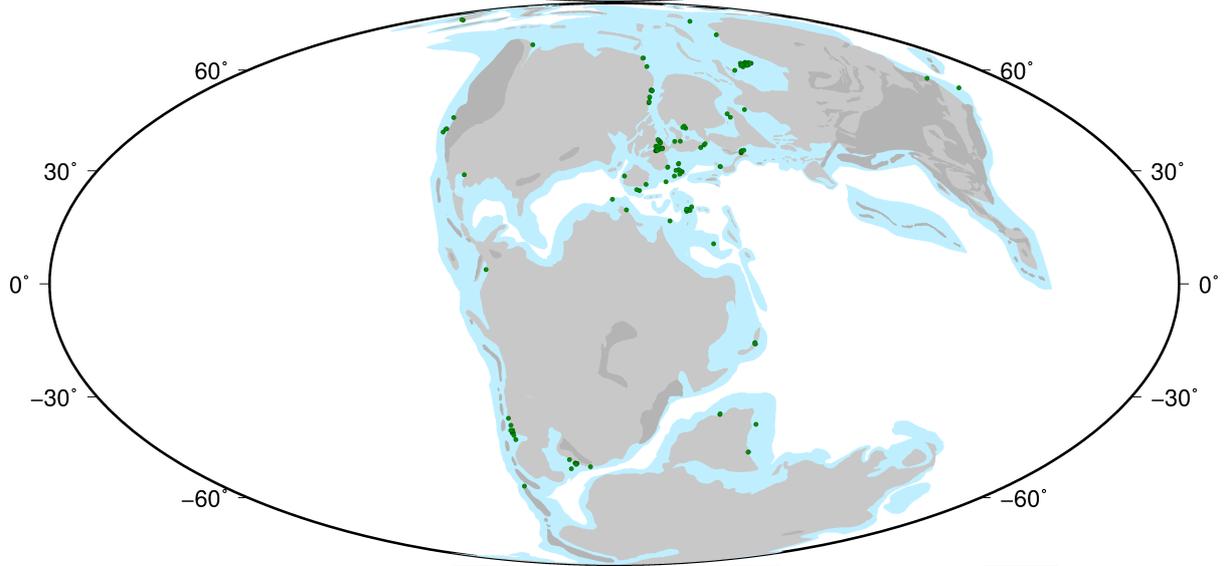
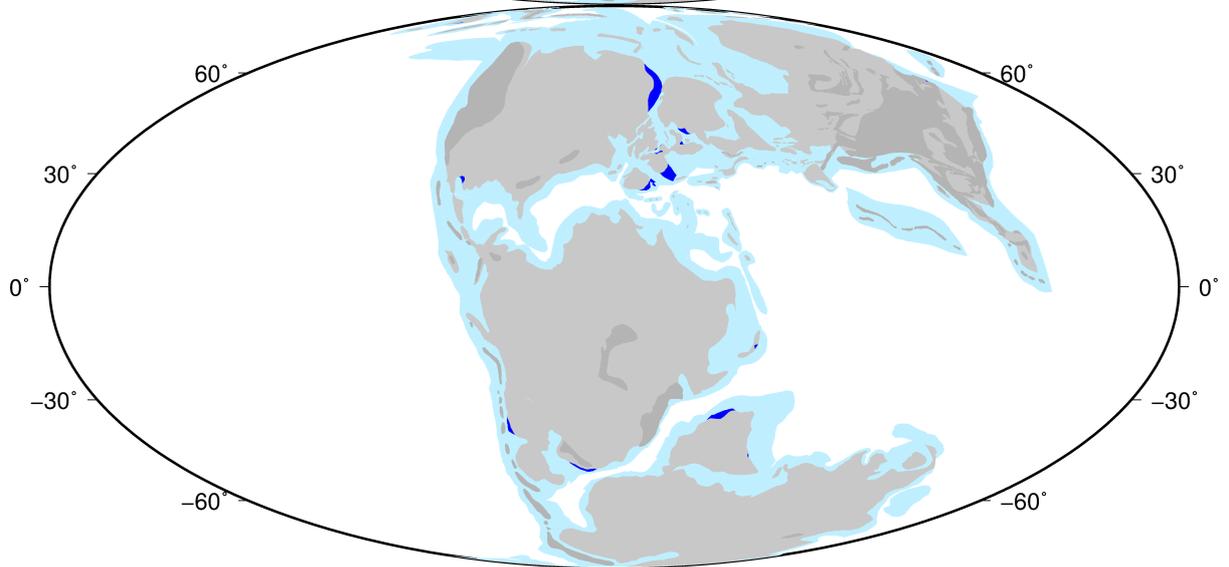
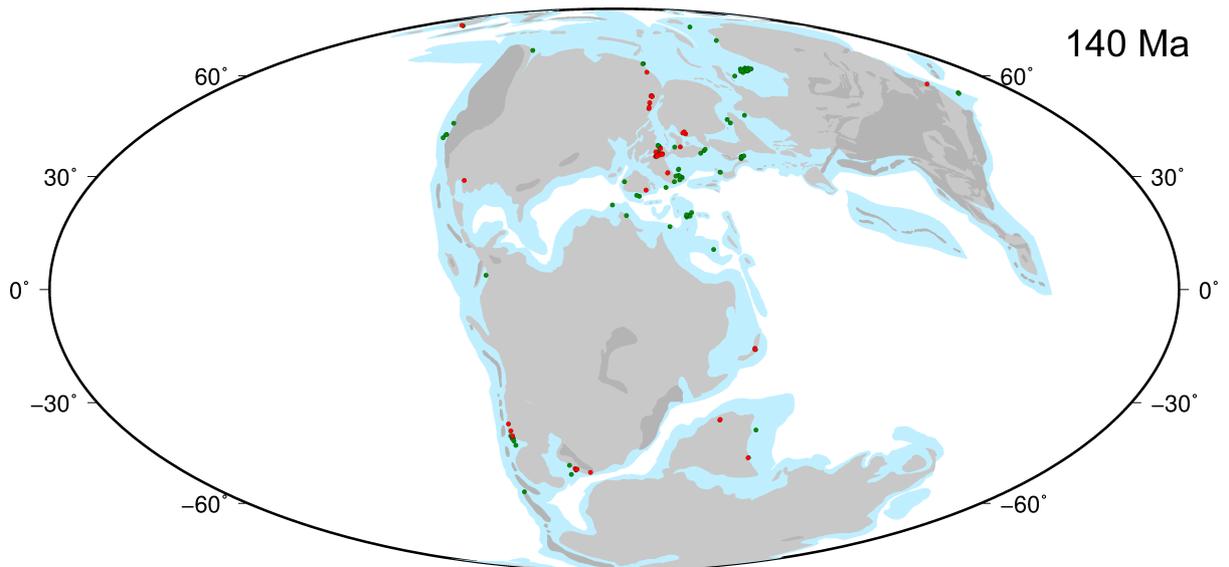
218 Ma

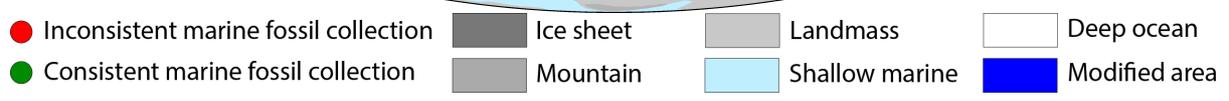
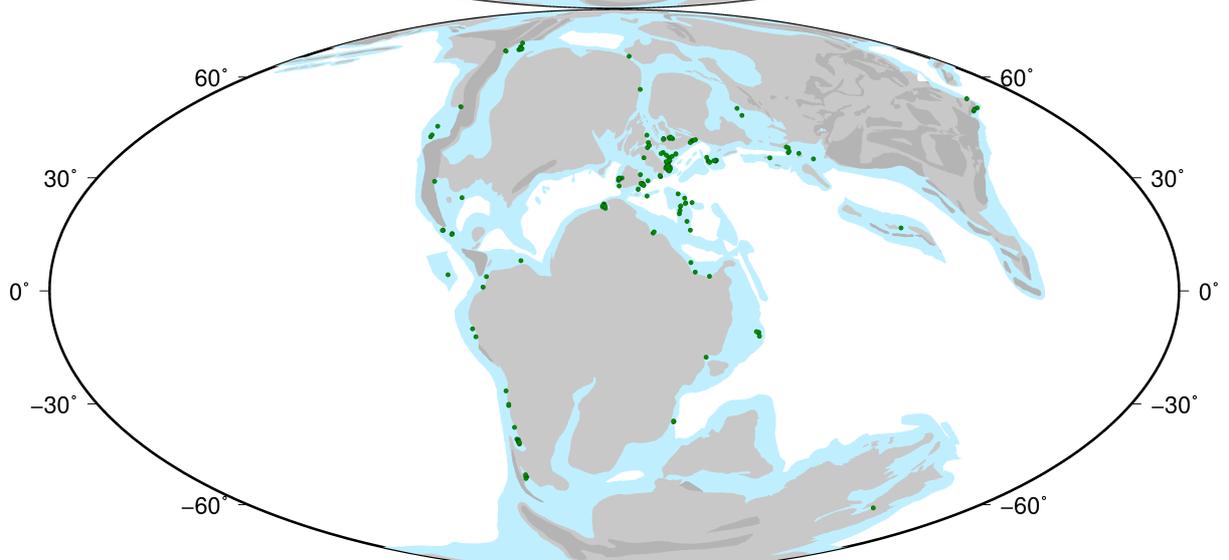
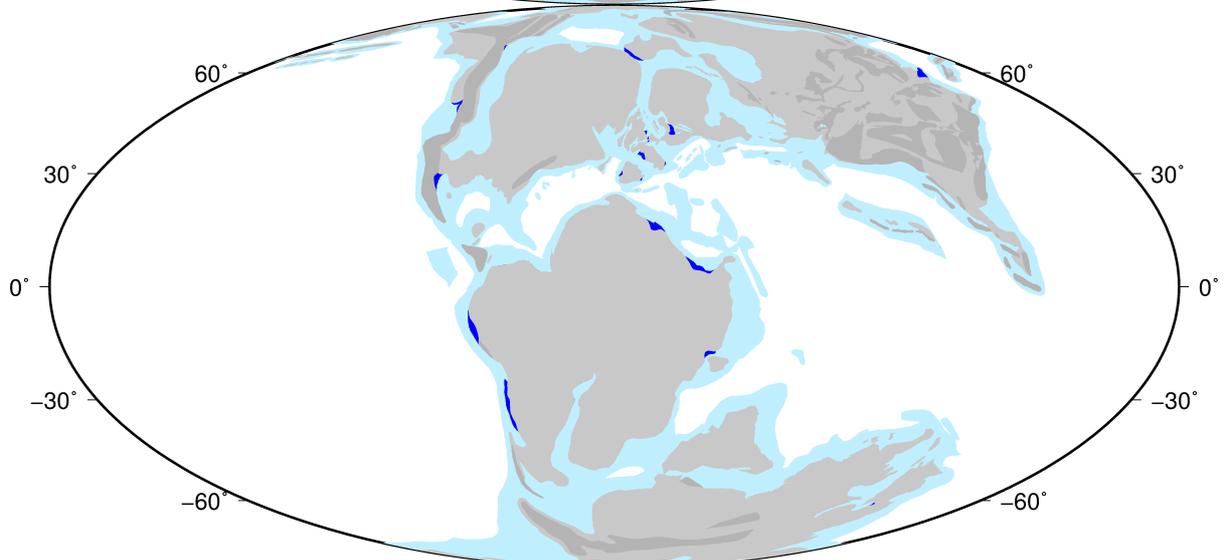
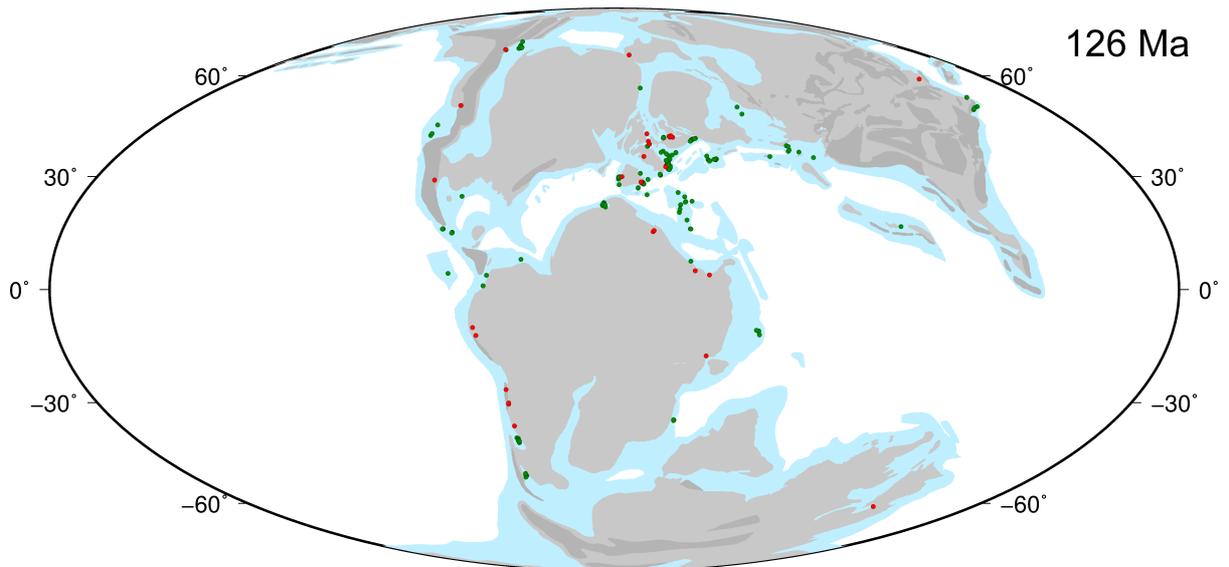


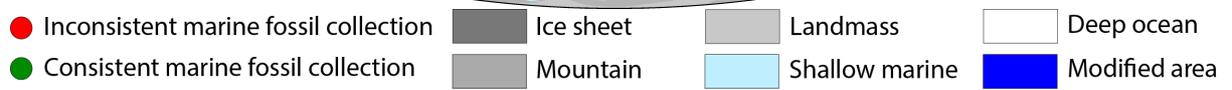
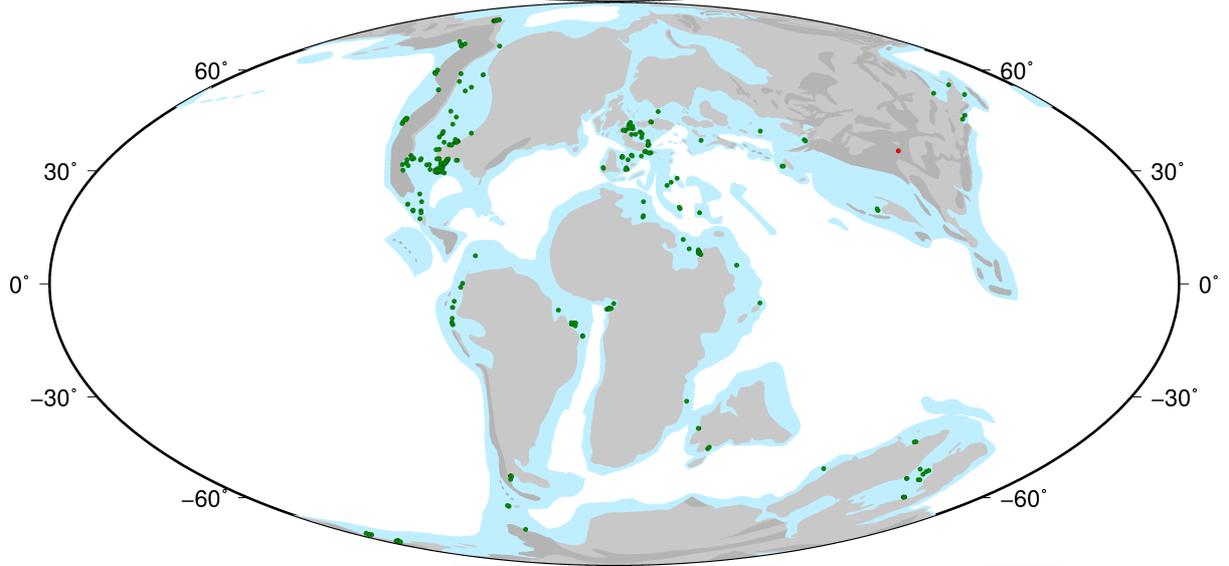
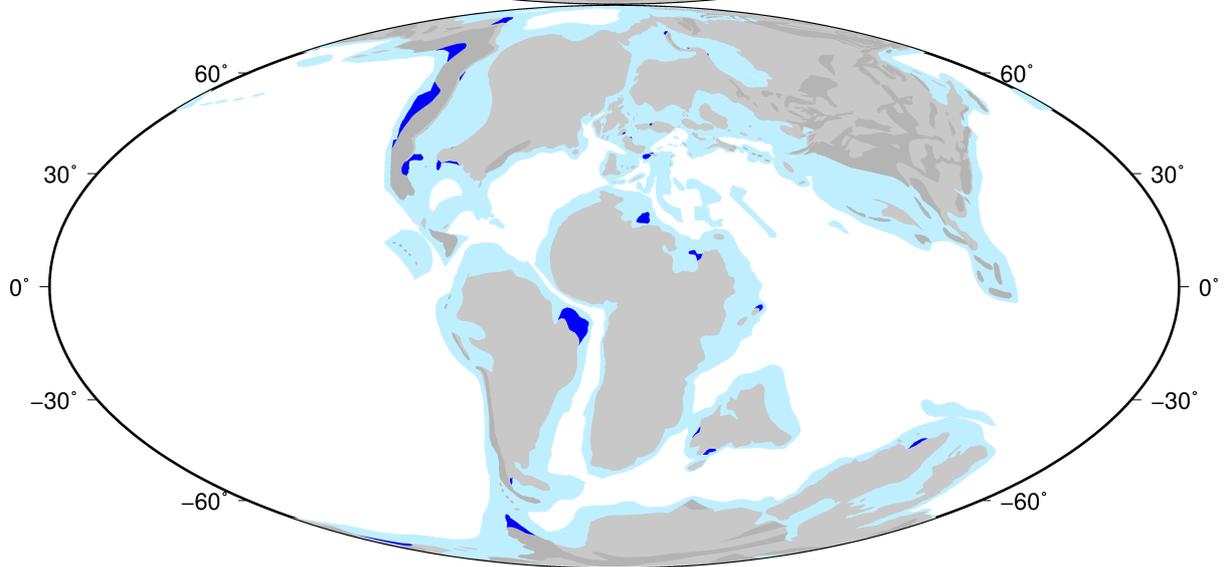
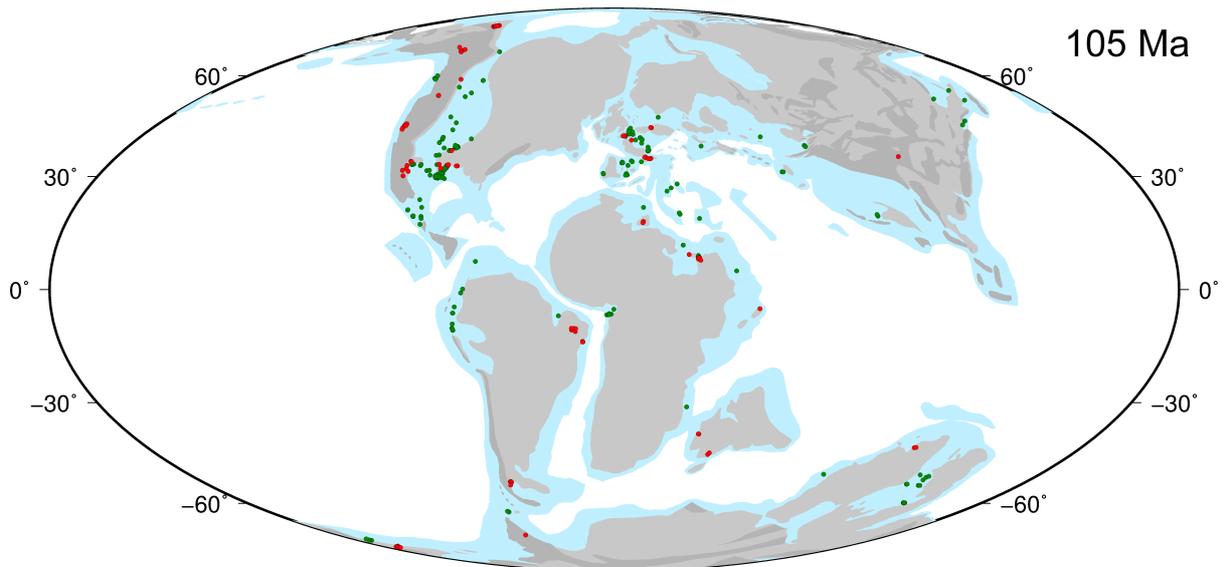


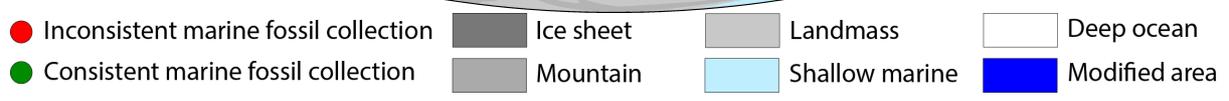
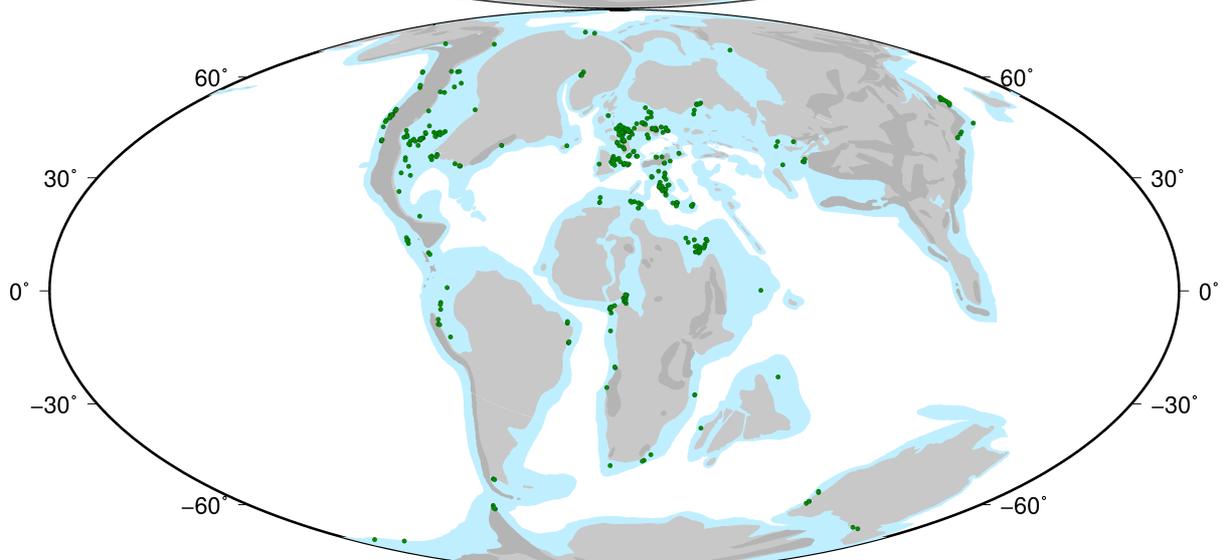
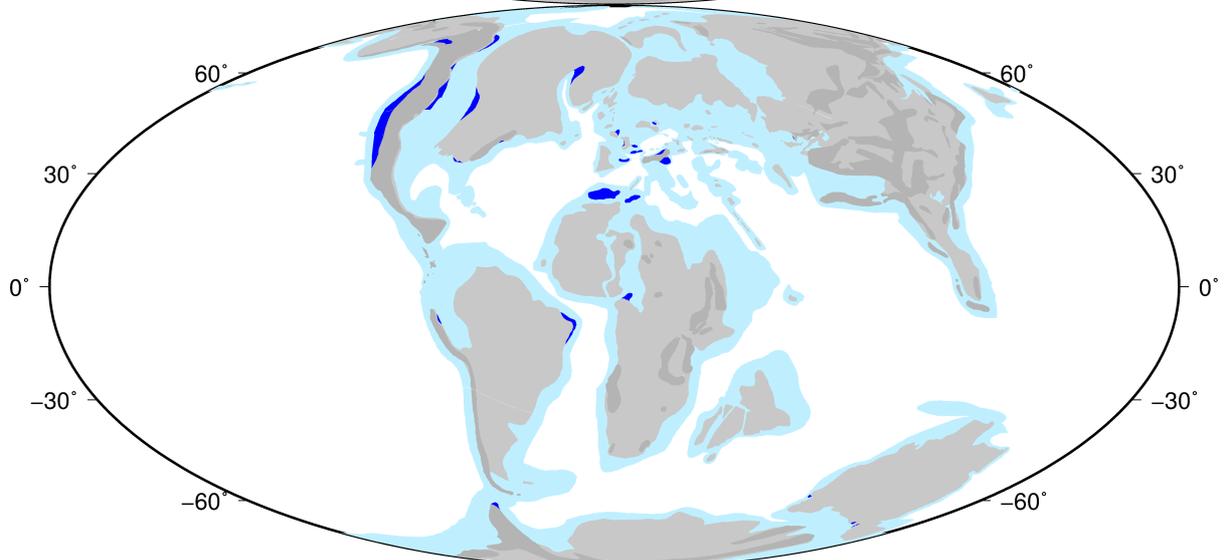
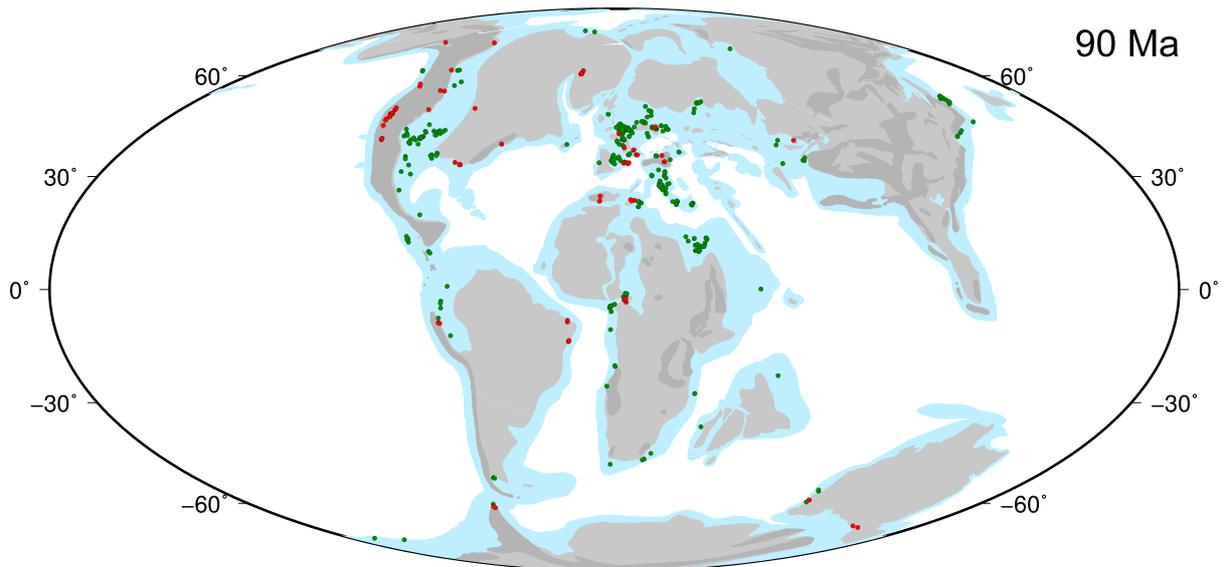


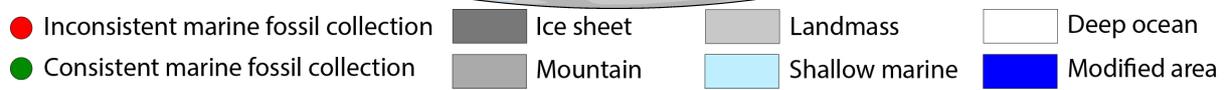
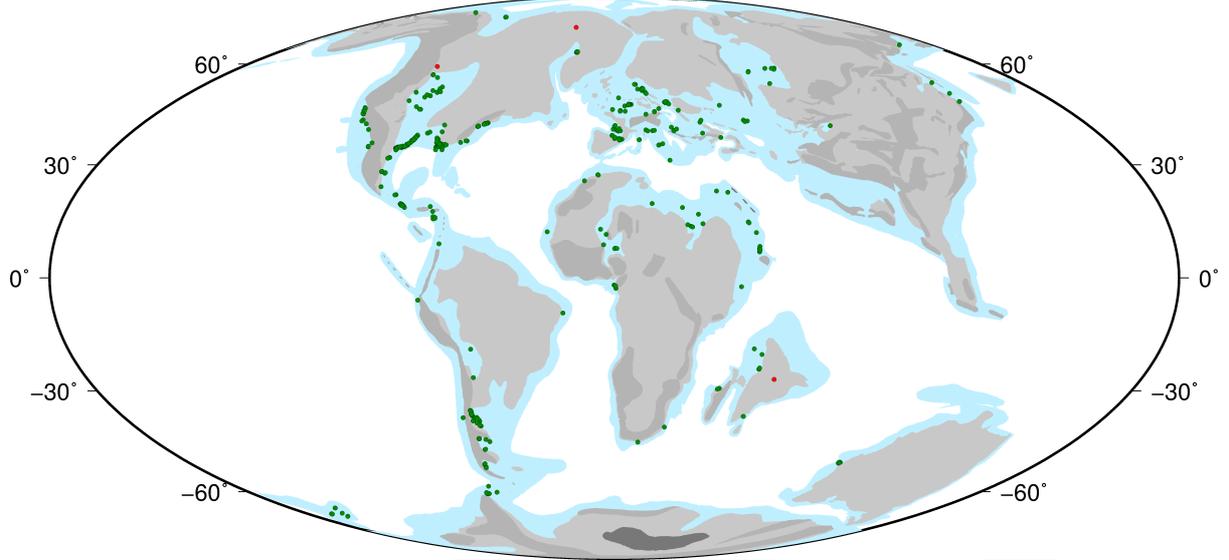
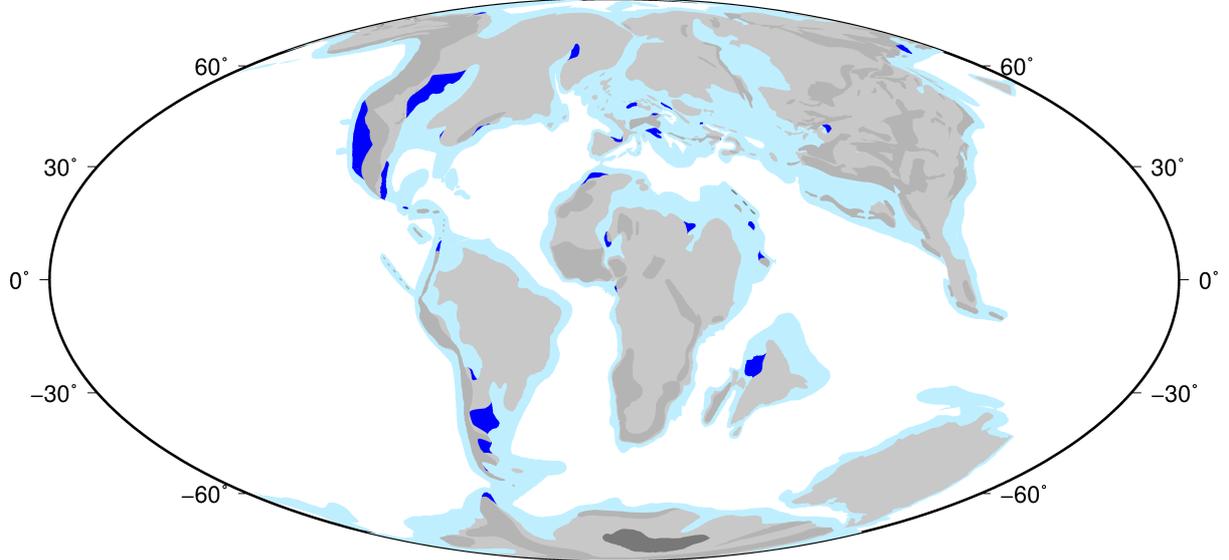
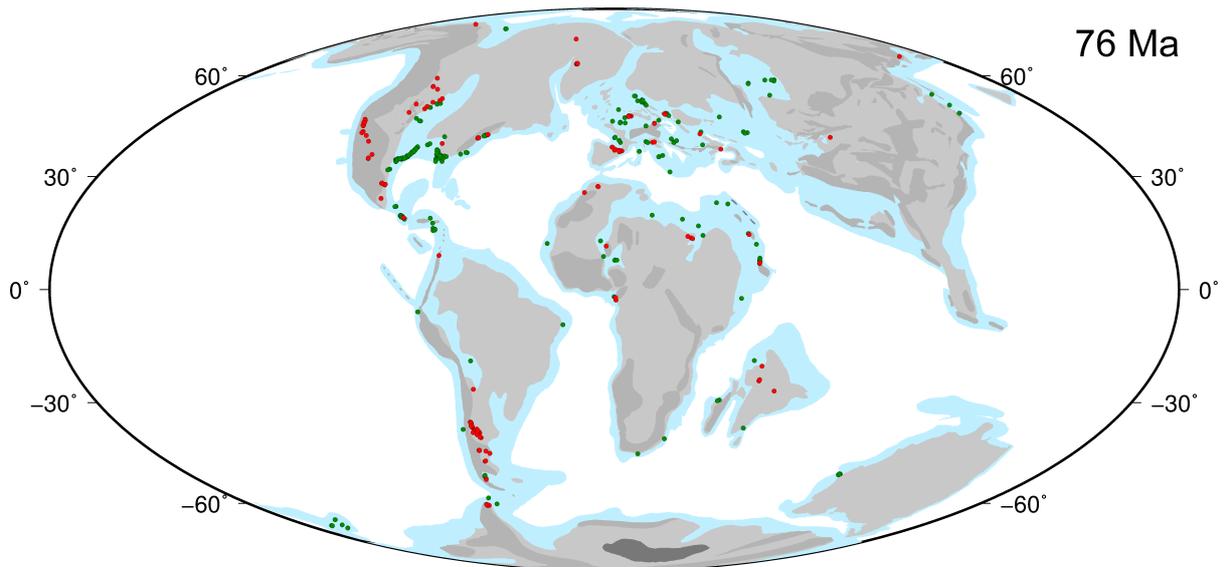




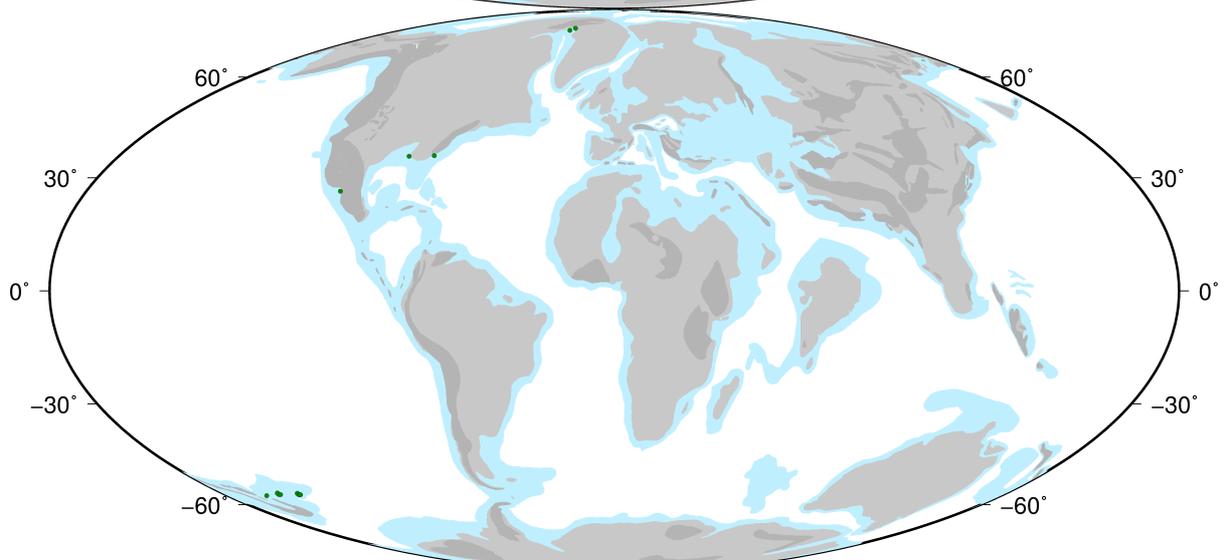
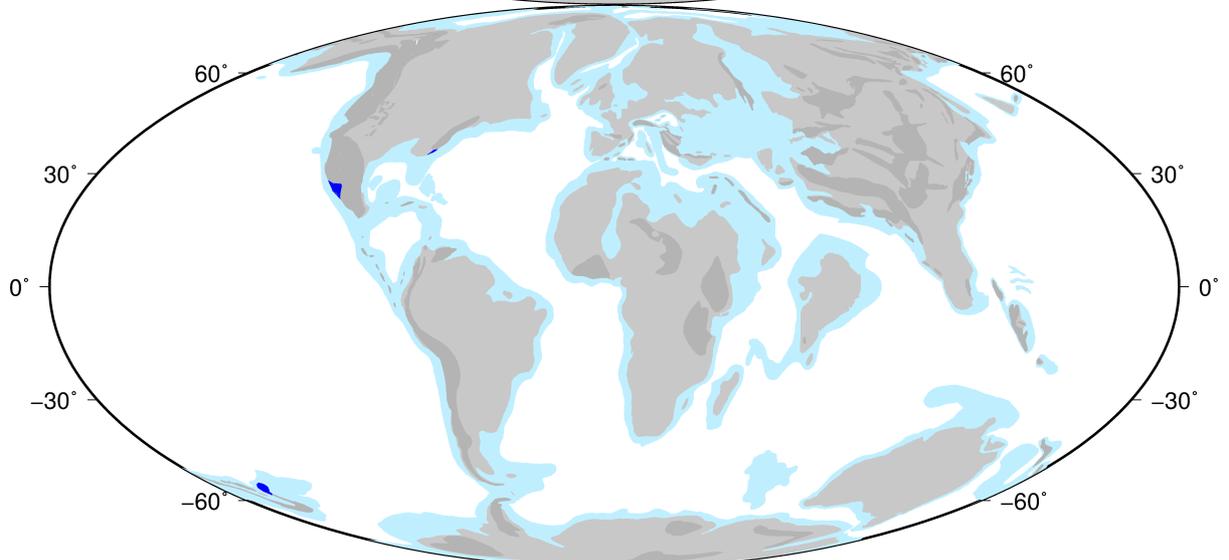
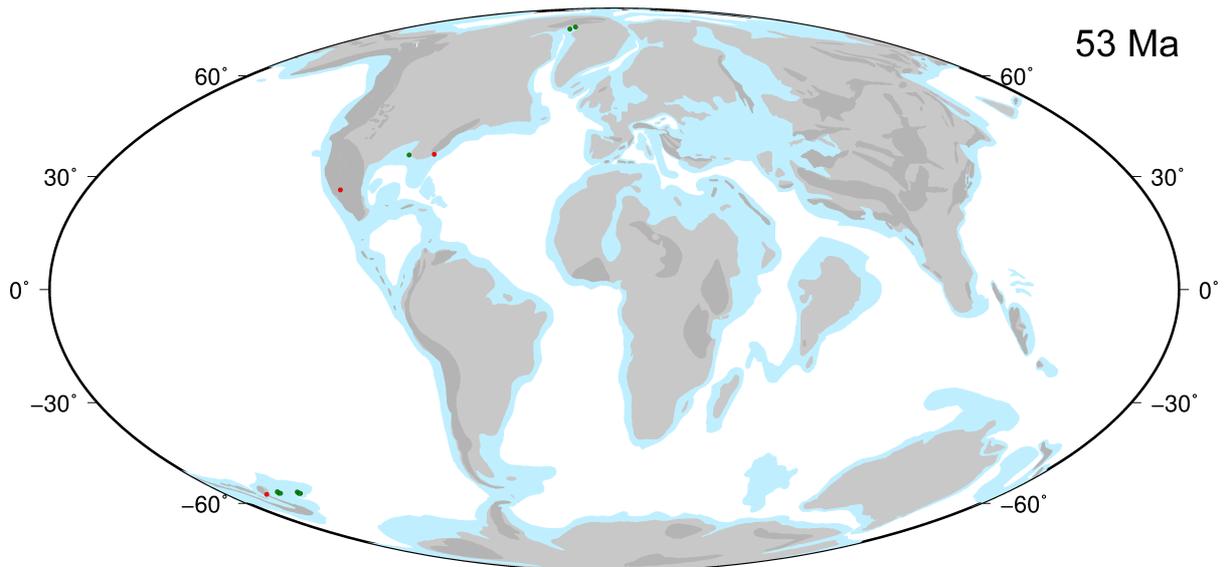






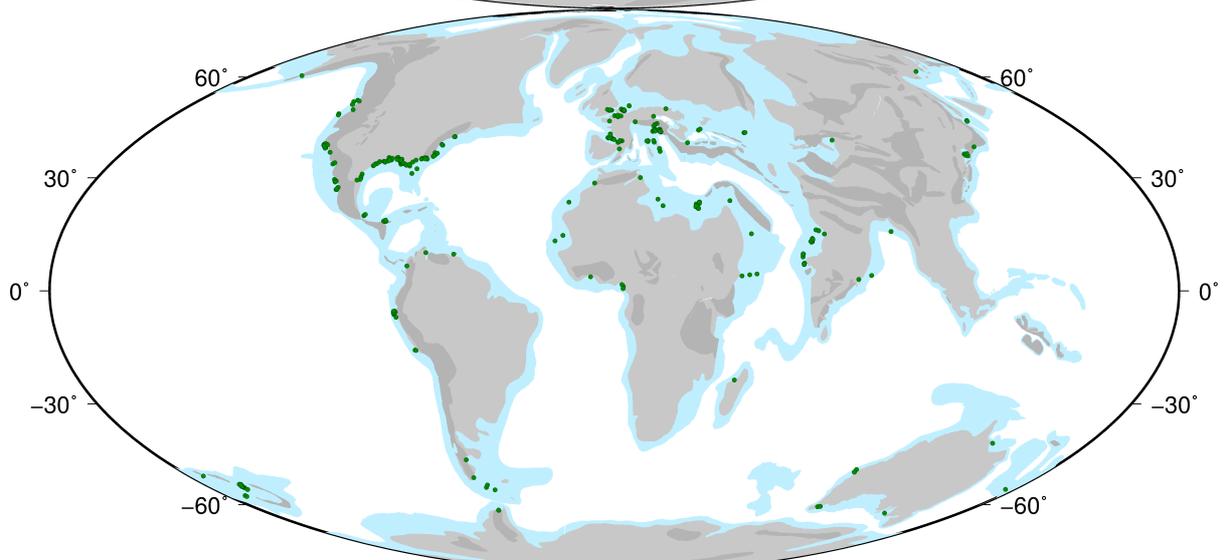
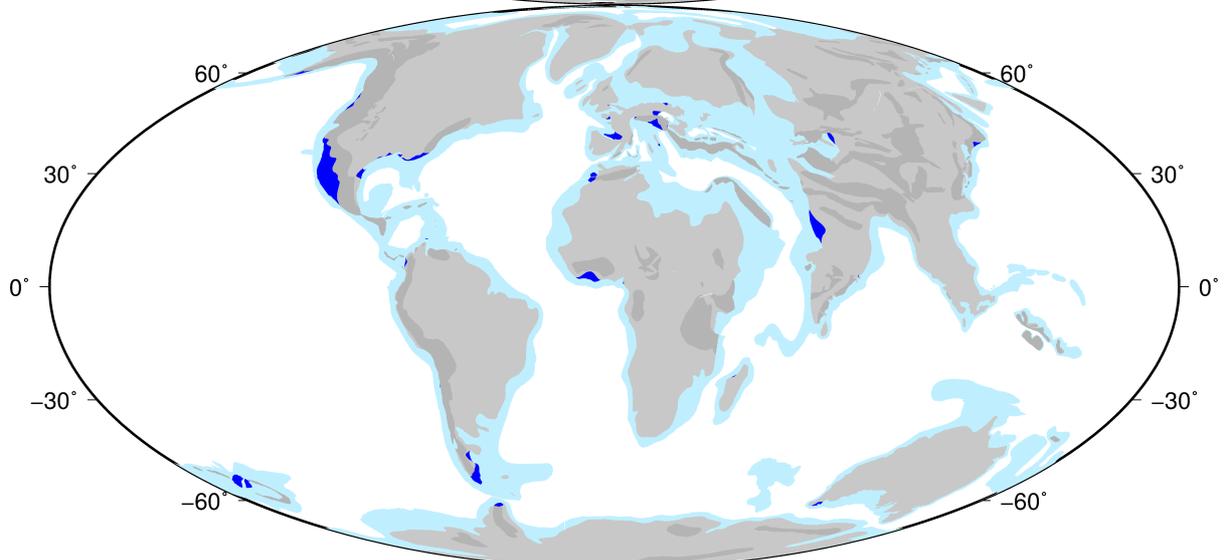
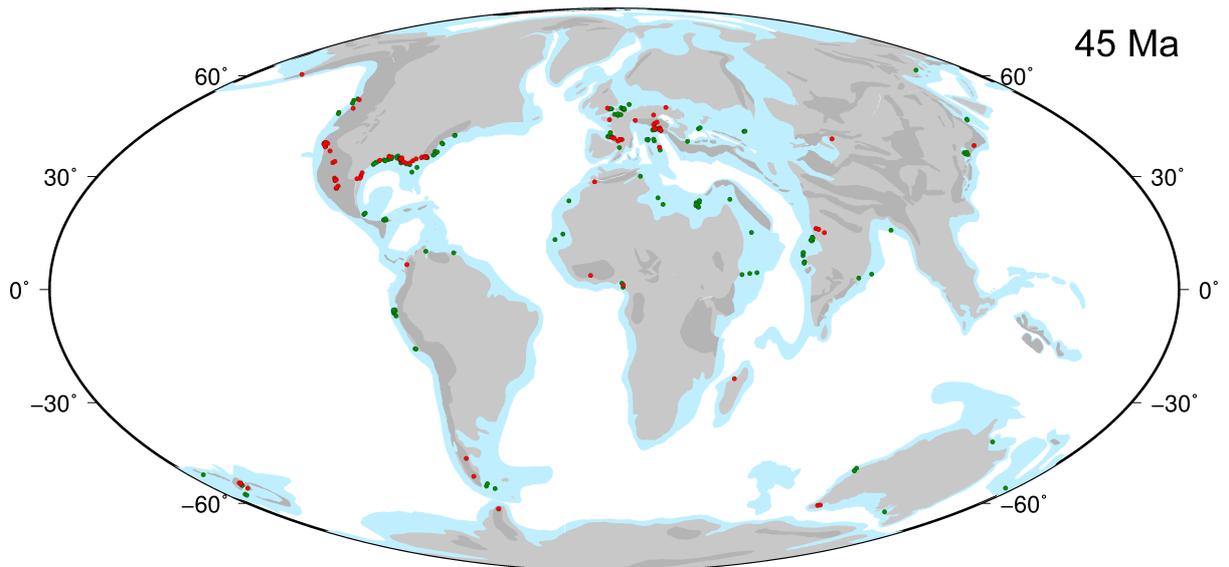


53 Ma



- |                                       |           |                |               |
|---------------------------------------|-----------|----------------|---------------|
| Inconsistent marine fossil collection | Ice sheet | Landmass       | Deep ocean    |
| Consistent marine fossil collection   | Mountain  | Shallow marine | Modified area |

45 Ma



- |                                       |           |                |               |
|---------------------------------------|-----------|----------------|---------------|
| Inconsistent marine fossil collection | Ice sheet | Landmass       | Deep ocean    |
| Consistent marine fossil collection   | Mountain  | Shallow marine | Modified area |

