

Atlas of Paleogene Paleogeographic Maps

CR Scotese, PALEOMAP Project

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This Atlas of Paleogene Paleogeographic Maps shows the changing paleogeography from the Paleocene (60.6 Ma) to the Late Oligocene (25.7 Ma). The maps are from volume 1 of the PALEOMAP PaleoAtlas for ArcGIS (Scotese, 2014). Absolute age assignments are from Ogg, Ogg & Gradstein (2008).

For Maps 8, 10, 12, and 15, there are two versions of the paleogeography. One map shows the maximum highstand sea level (maximum flooding surface). The other map shows the minimum lowstand sea level (supersequence boundary). For each paleogeography there is an estimate of sea level change (m) relative to present-day sea level.

The following maps are included in the Atlas of Paleogene Paleogeographic Maps:

Map 08 Late Oligocene (Chattian, 25.7 Ma) Aquitanian Supersequence Boundary & Late Oligocene Transgressive Systems Tract

Map 09 Early Oligocene (Rupelian, 31.1 Ma) Maximum Flooding Surface

Map 10 Late Eocene, (Priabonian, 35.6 Ma) Rupelian Supersequence Boundary & Priabonian Transgressive Systems Tract

Map 11 late Middle Eocene (Bartonian, 38.8 Ma) Bartonian Transgressive Systems Tract

Map 12 early Middle Eocene, (middle Lutetian, 44.6 Ma) Lutetian Maximum Flooding Surface & Lutetian Supersequence Boundary

Map 13 Early Eocene (Ypresian, 52.2 Ma) Ypresian Maximum Flooding Surface

Map 14 Paleocene/Eocene Boundary (PETM, Thanetian/Ypresian Boundary, 55.8 Ma) PETM Transgressive Systems Tract

Map 15 Paleocene (Danian & Thanetian, 60.6 Ma) Paleocene Maximum Flooding Surface & Danian Supersequence Boundary

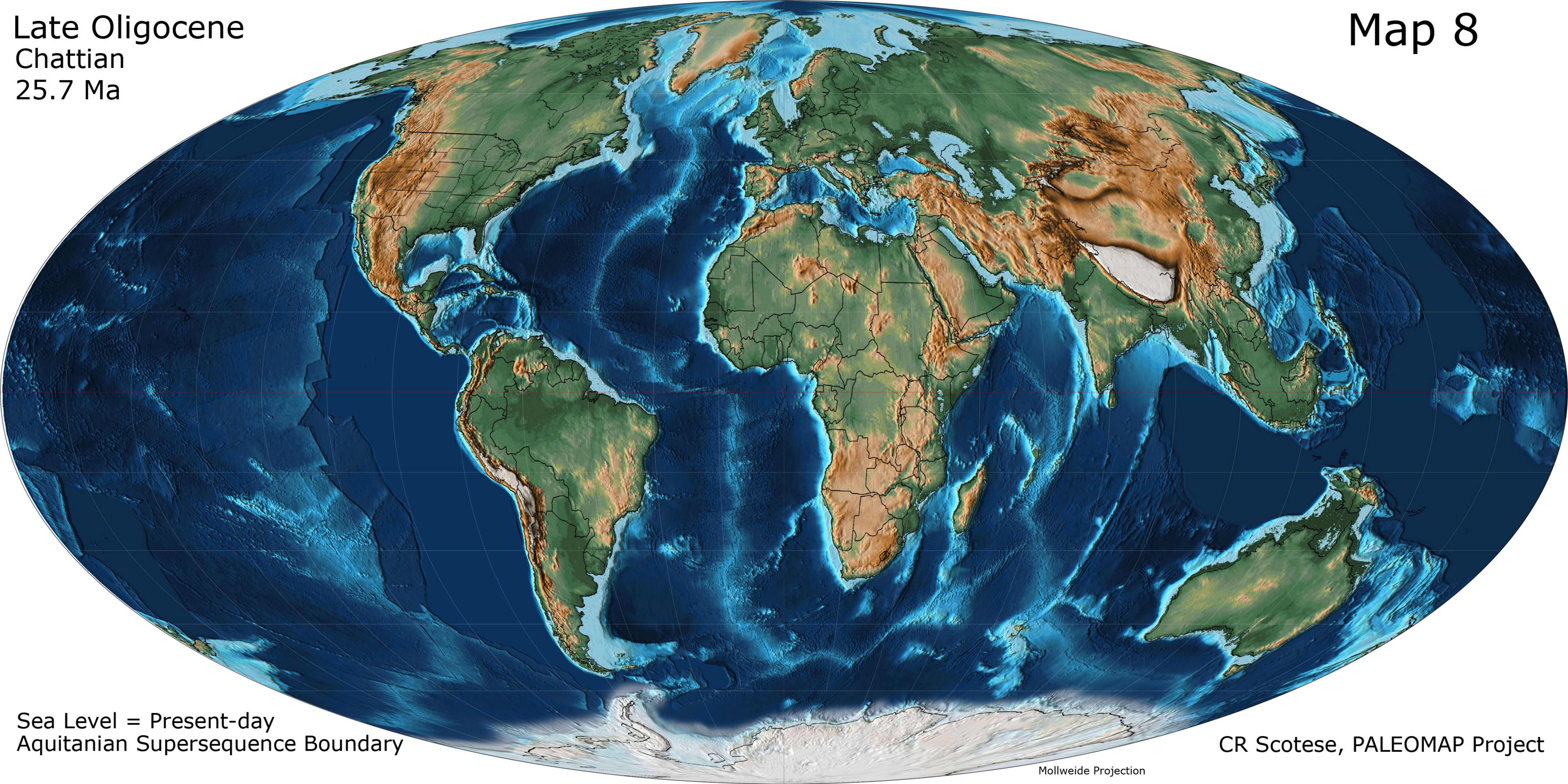
This Atlas should be cited as:

Scotese, C.R., 2014. Atlas of Paleogene Paleogeographic Maps (Mollweide Projection), Maps 8-15, Volume 1, The Cenozoic, PALEOMAP Atlas for ArcGIS, PALEOMAP Project, Evanston, IL.

References Cited

Ogg, J.G., Ogg, G., Gradstein, F.M., 2008. The Concise Geologic Time Scale, Cambridge University Press, Cambridge, UK, 177 pp.

Scotese, C.R., 2014, *The PALEOMAP Project PaleoAtlas for ArcGIS*, version 2, Volume 1, Cenozoic Plate Tectonic, Paleogeographic, and Paleoclimatic Reconstructions, Maps 1-15, PALEOMAP Project, Evanston, IL.



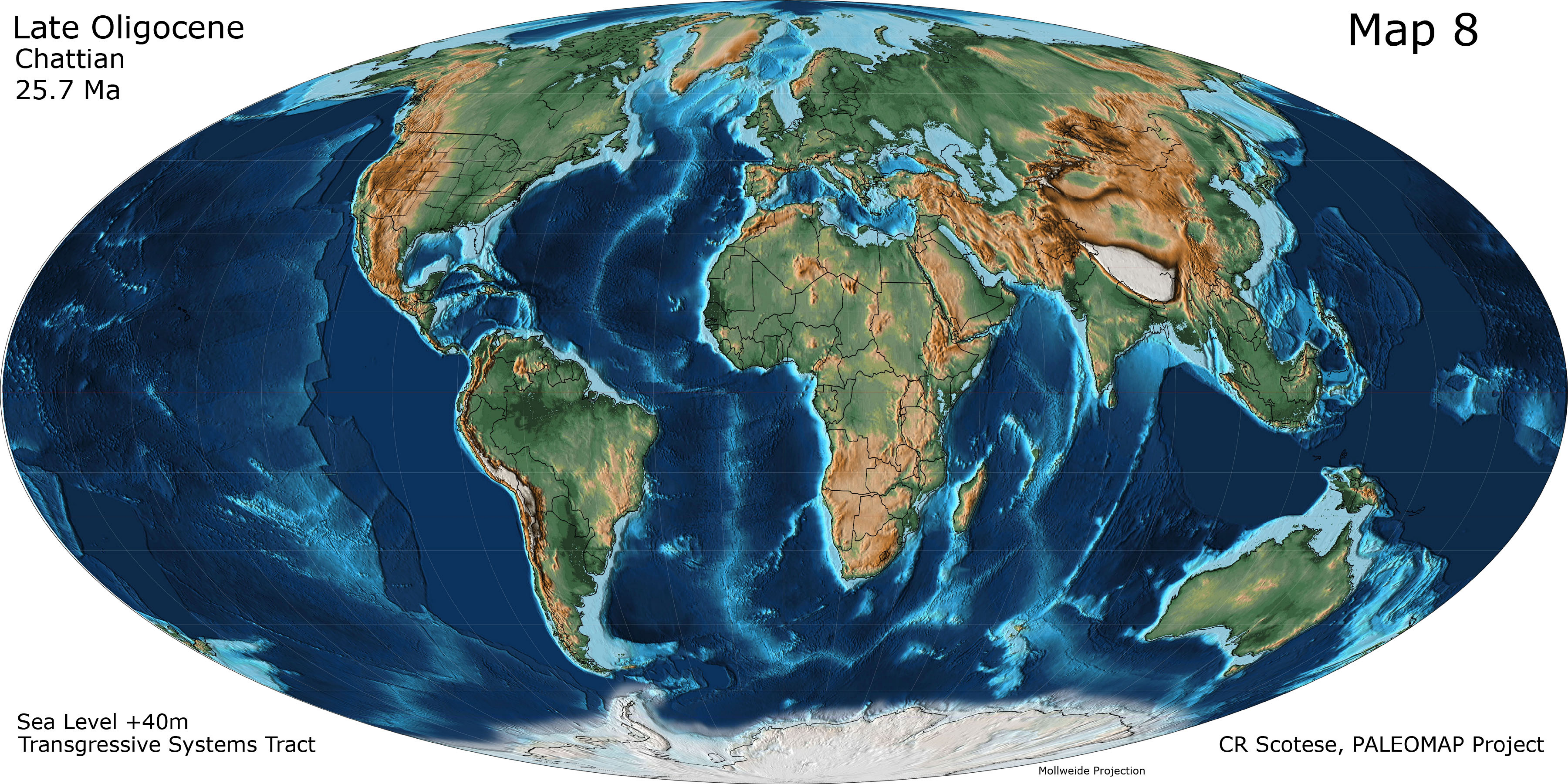
Late Oligocene
Chattian
25.7 Ma

Map 8

Sea Level = Present-day
Aquitanian Supersequence Boundary

Mollweide Projection

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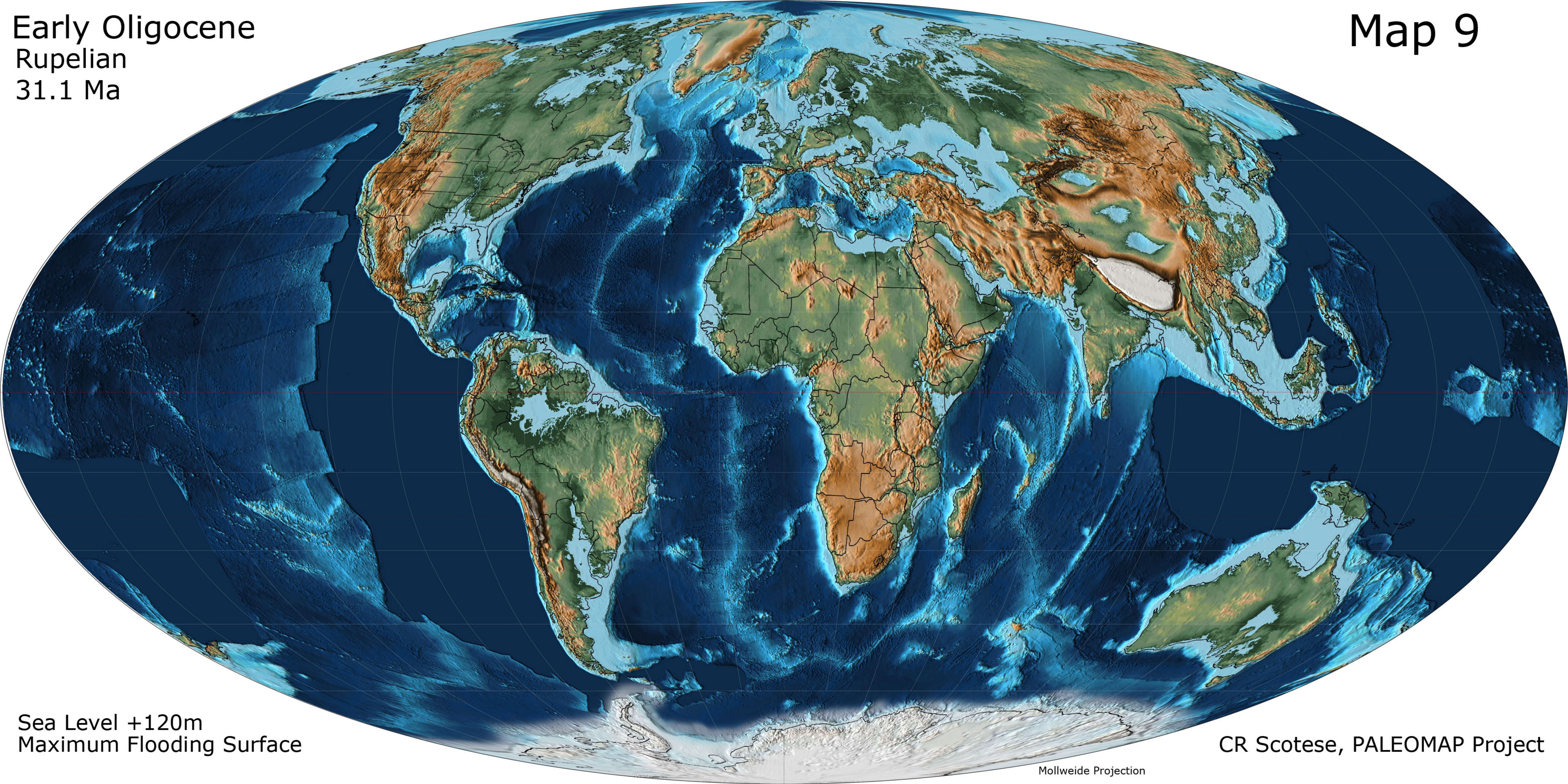
Late Oligocene
Chattian
25.7 Ma

Map 8

Sea Level +40m
Transgressive Systems Tract

CR Scotese, PALEOMAP Project

Mollweide Projection



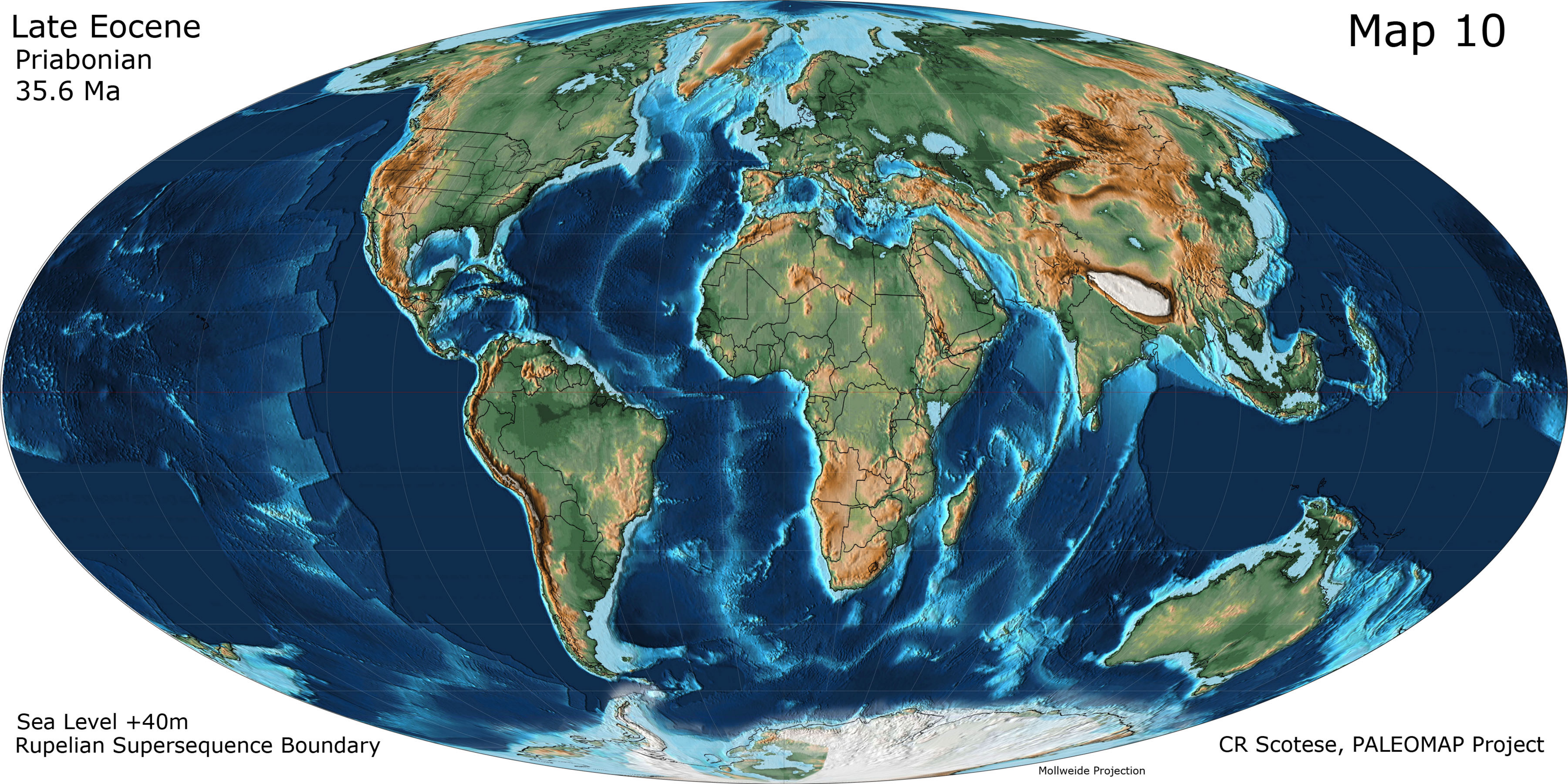
Early Oligocene
Rupelian
31.1 Ma

Map 9

Sea Level +120m
Maximum Flooding Surface

CR Scotese, PALEOMAP Project

Mollweide Projection



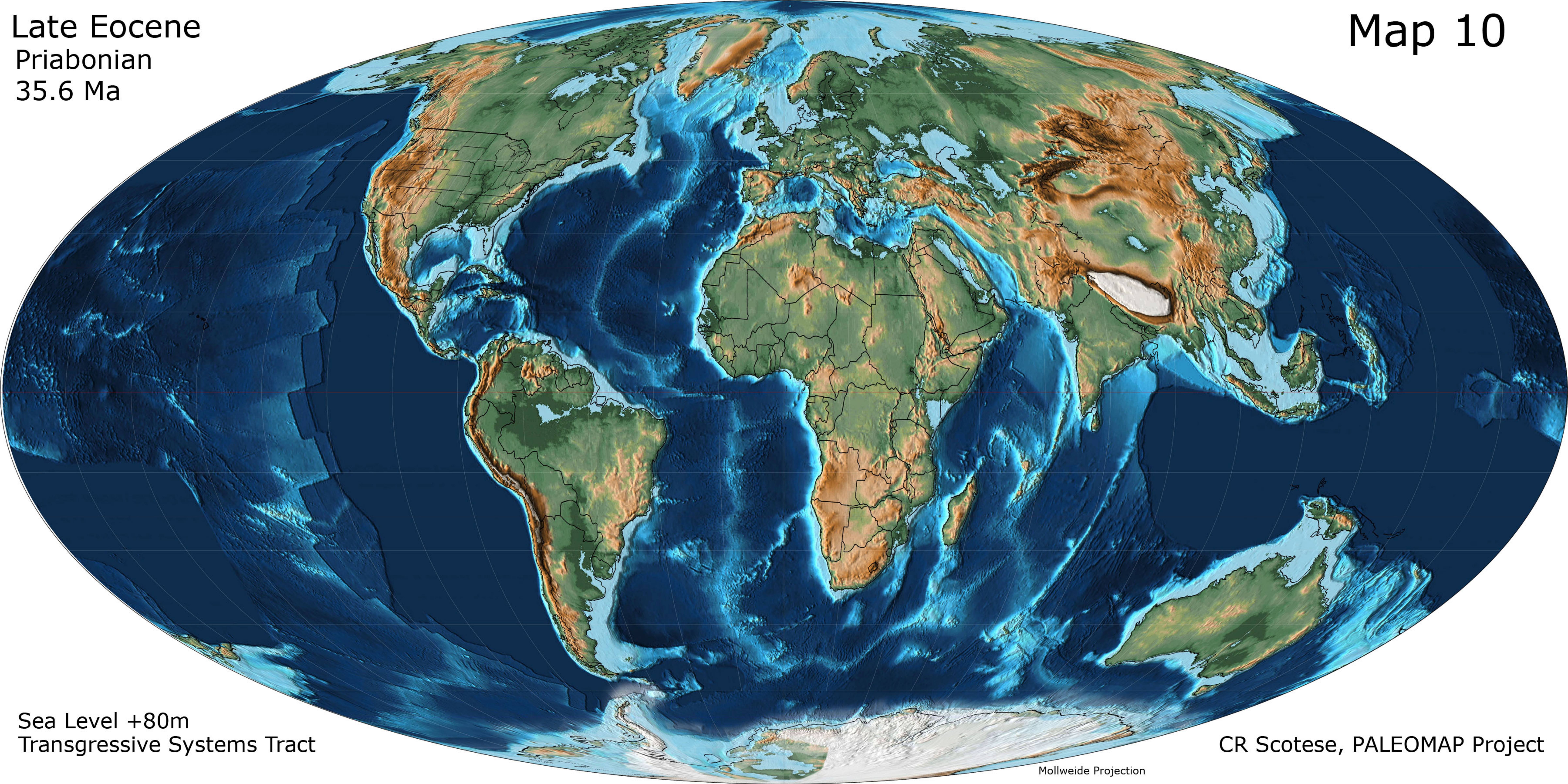
Late Eocene
Priabonian
35.6 Ma

Map 10

Sea Level +40m
Rupelian Supersequence Boundary

CR Scotese, PALEOMAP Project

Mollweide Projection



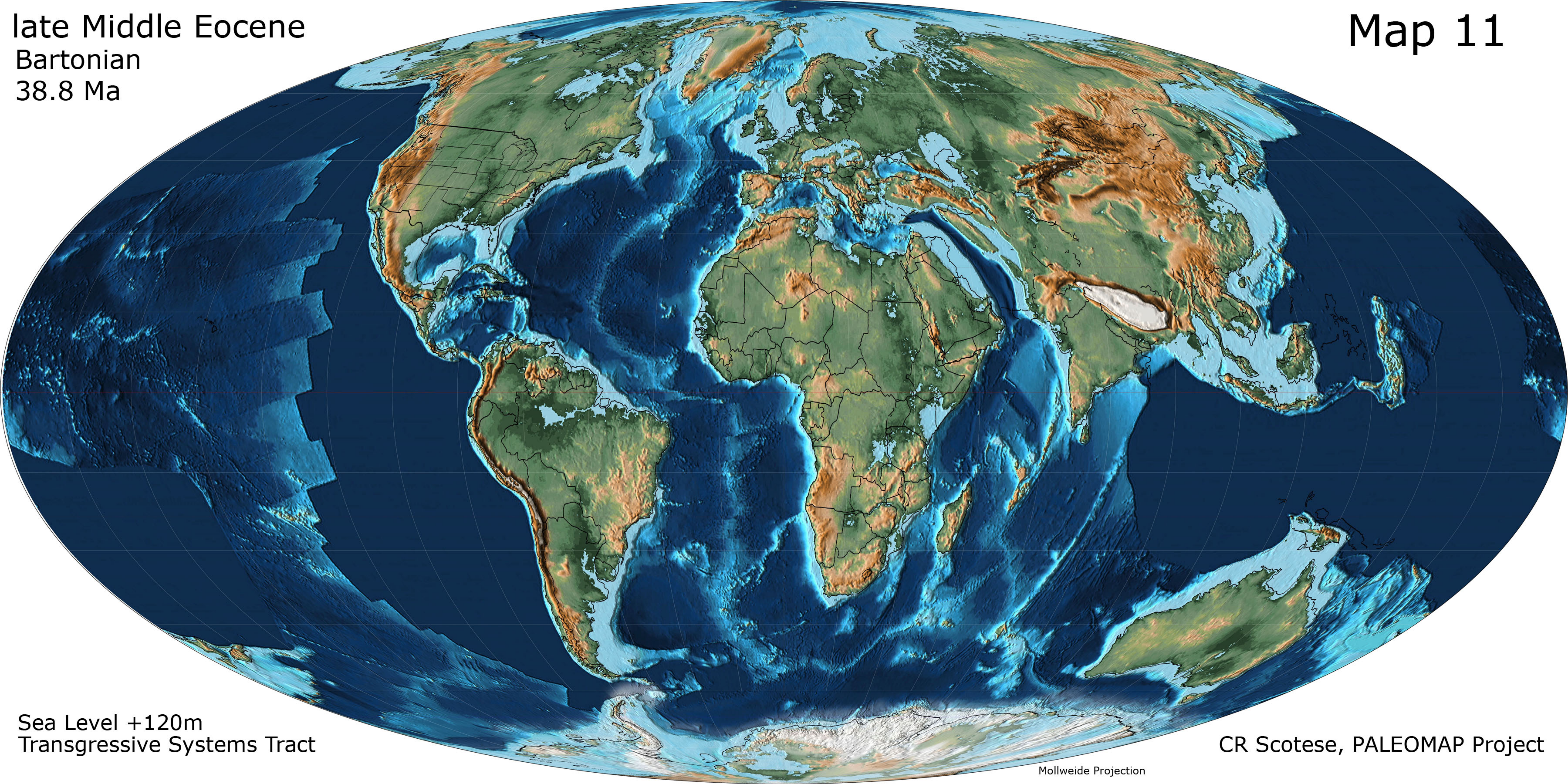
Late Eocene
Priabonian
35.6 Ma

Map 10

Sea Level +80m
Transgressive Systems Tract

CR Scotese, PALEOMAP Project

Mollweide Projection



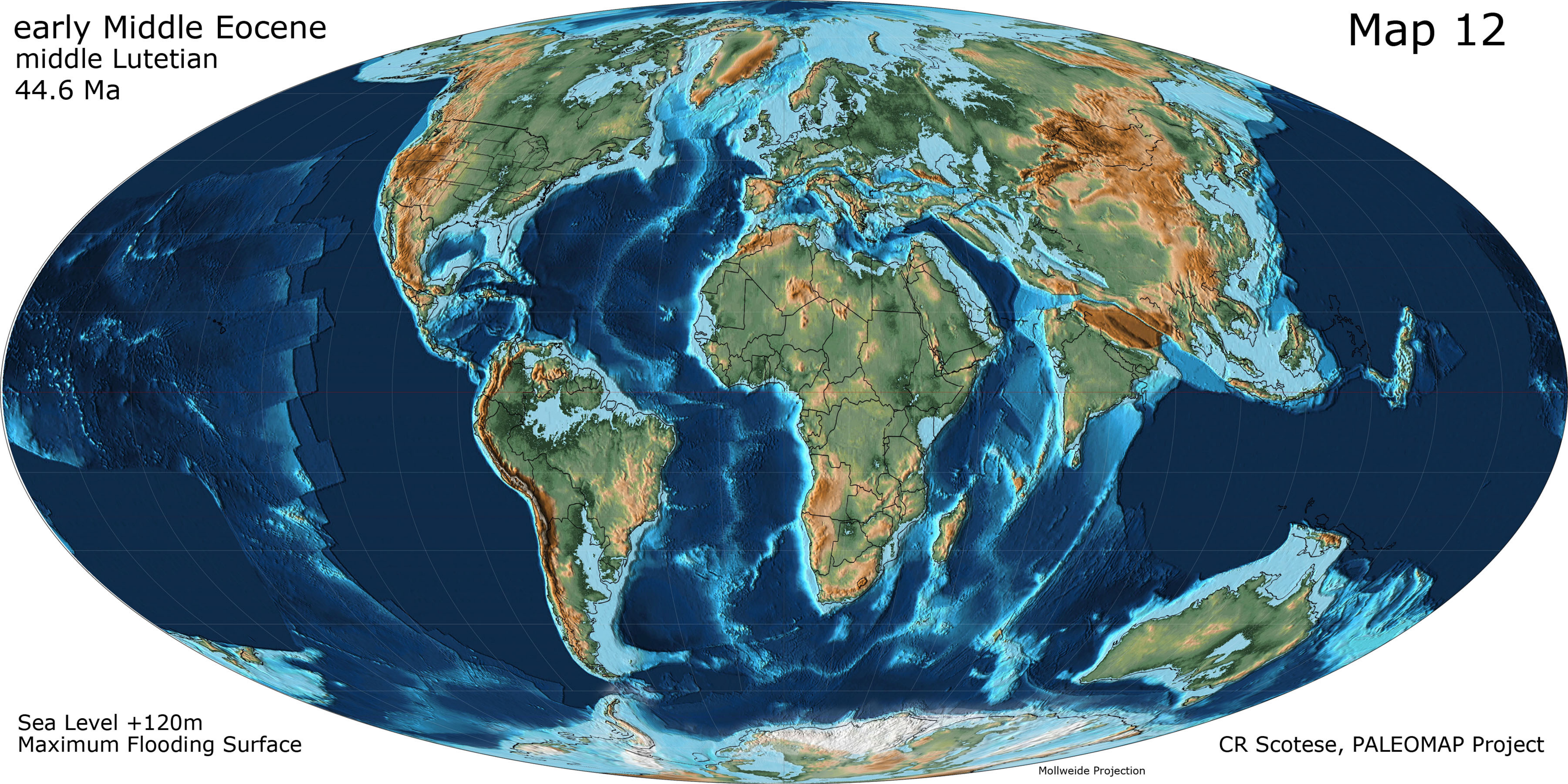
late Middle Eocene
Bartonian
38.8 Ma

Map 11

Sea Level +120m
Transgressive Systems Tract

CR Scotese, PALEOMAP Project

Mollweide Projection



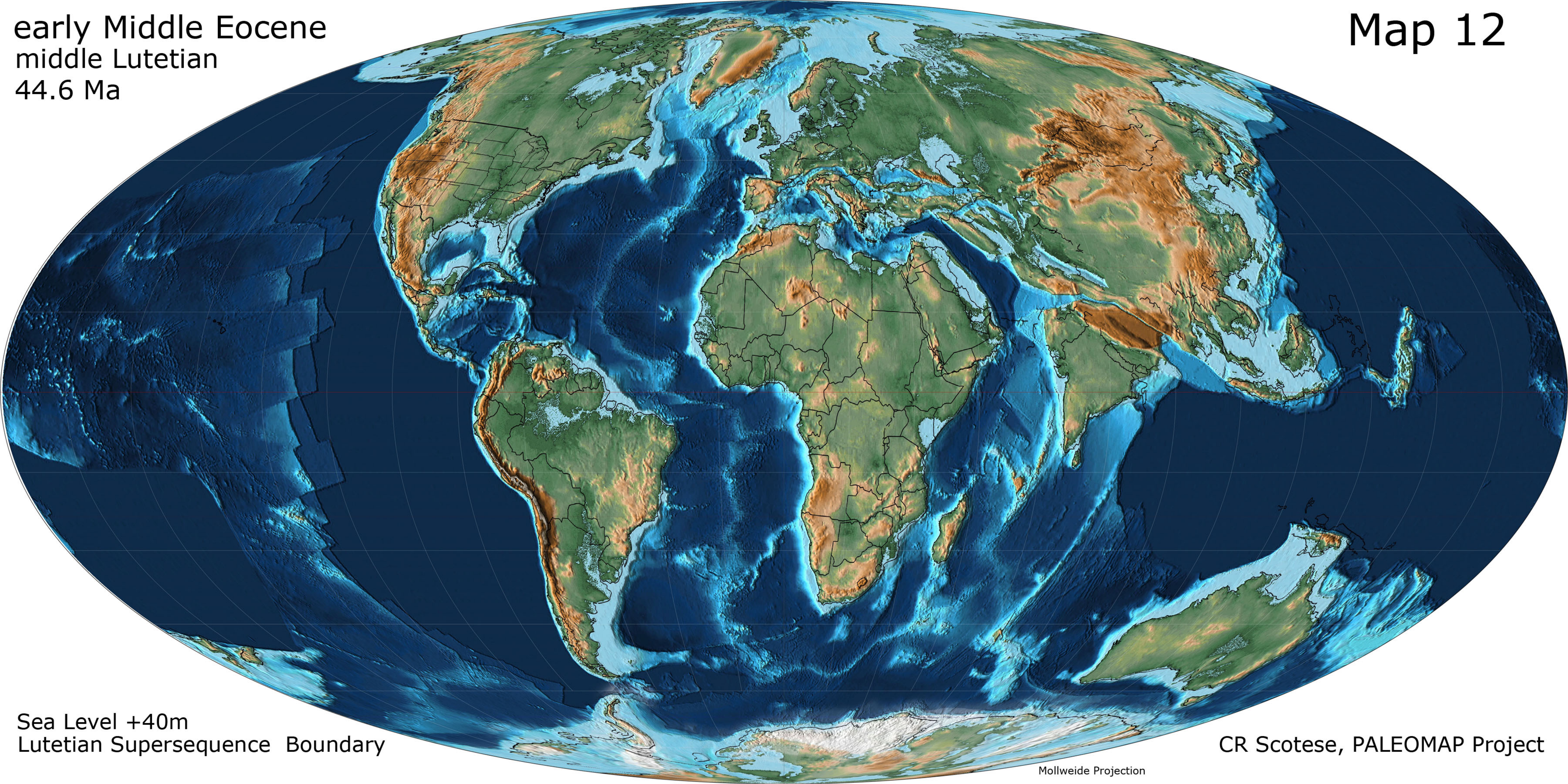
early Middle Eocene
middle Lutetian
44.6 Ma

Map 12

Sea Level +120m
Maximum Flooding Surface

CR Scotese, PALEOMAP Project

Mollweide Projection



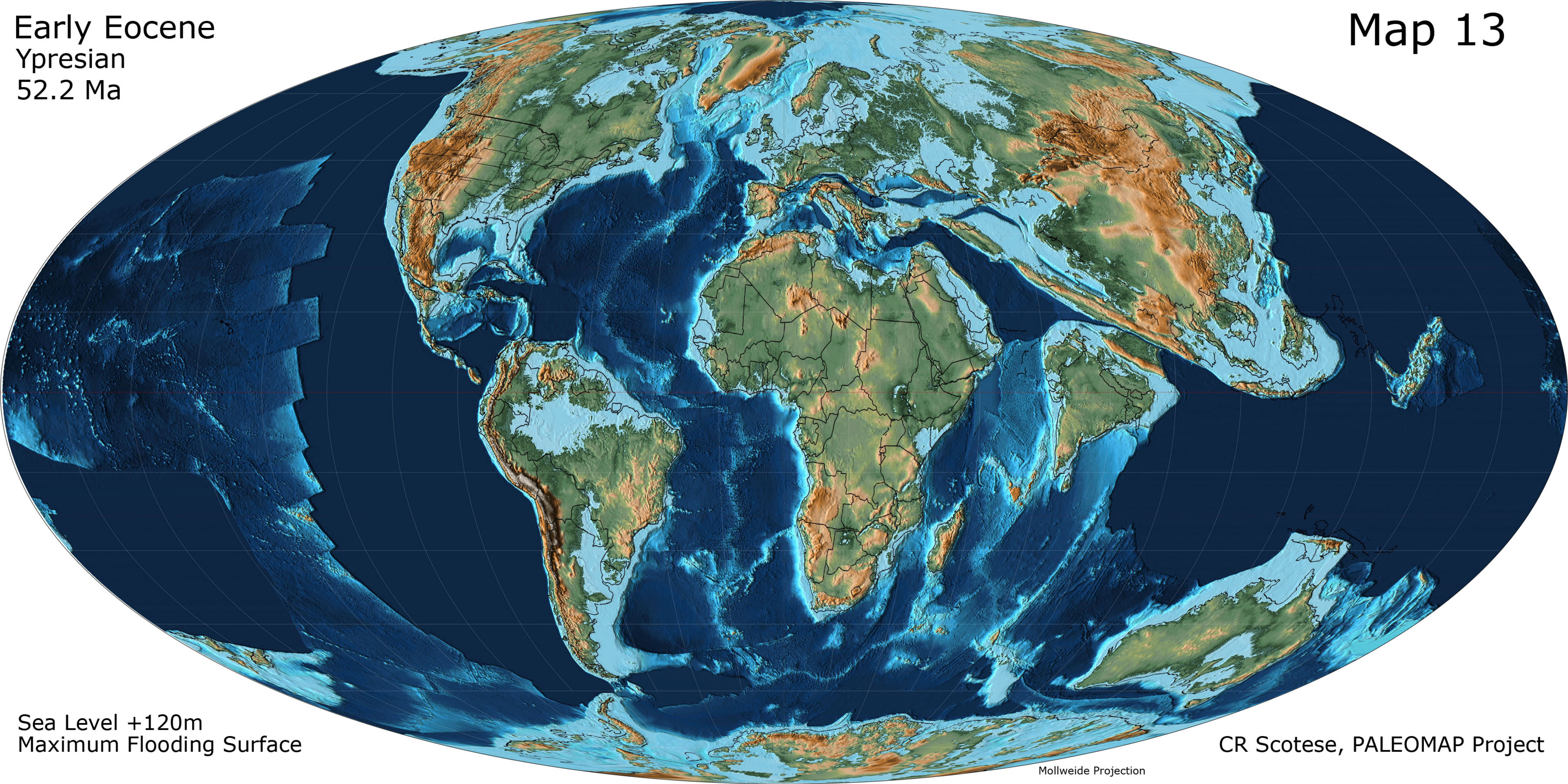
early Middle Eocene
middle Lutetian
44.6 Ma

Map 12

Sea Level +40m
Lutetian Supersequence Boundary

CR Scotese, PALEOMAP Project

Mollweide Projection



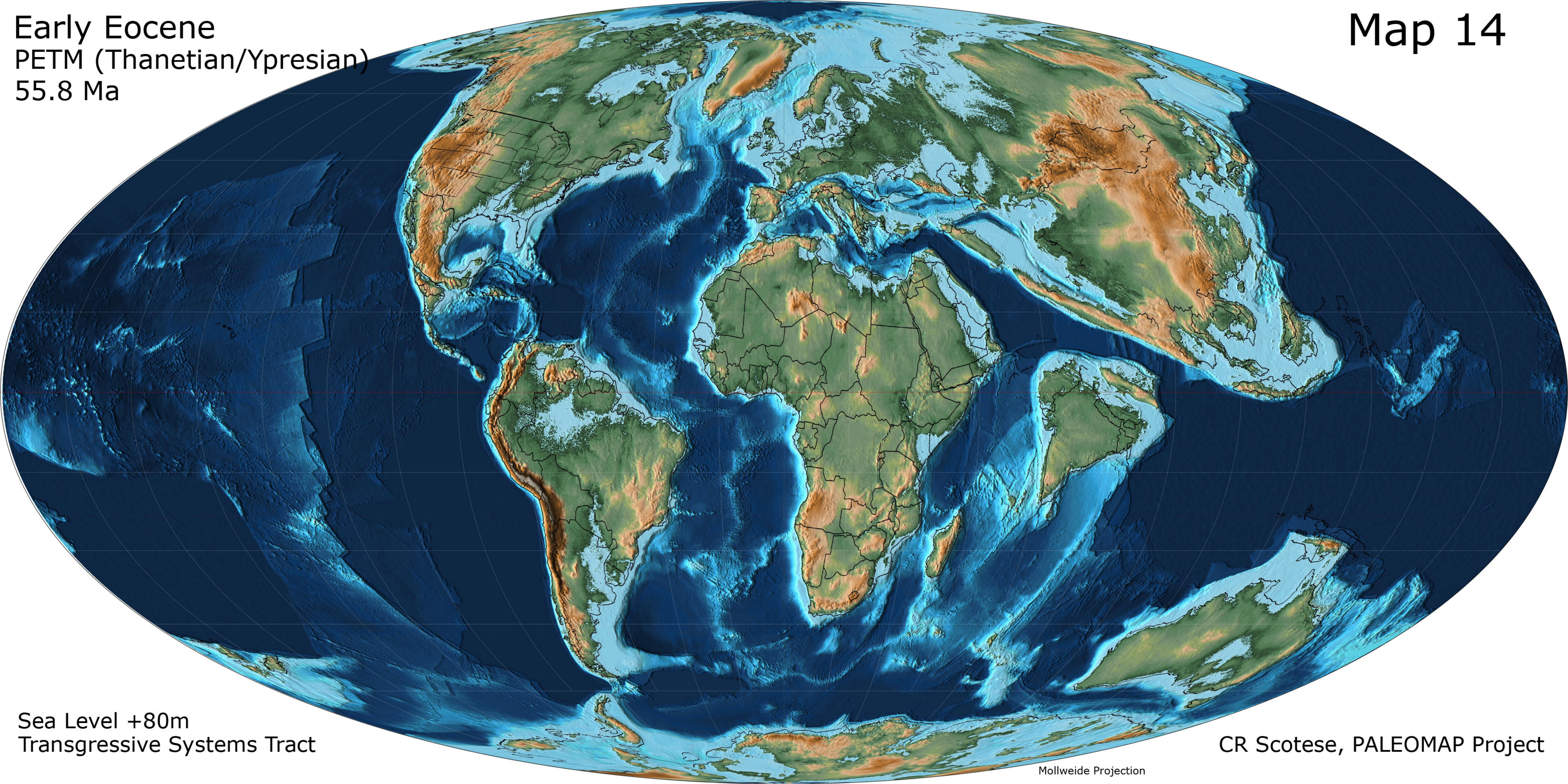
Early Eocene
Ypresian
52.2 Ma

Map 13

Sea Level +120m
Maximum Flooding Surface

CR Scotese, PALEOMAP Project

Mollweide Projection



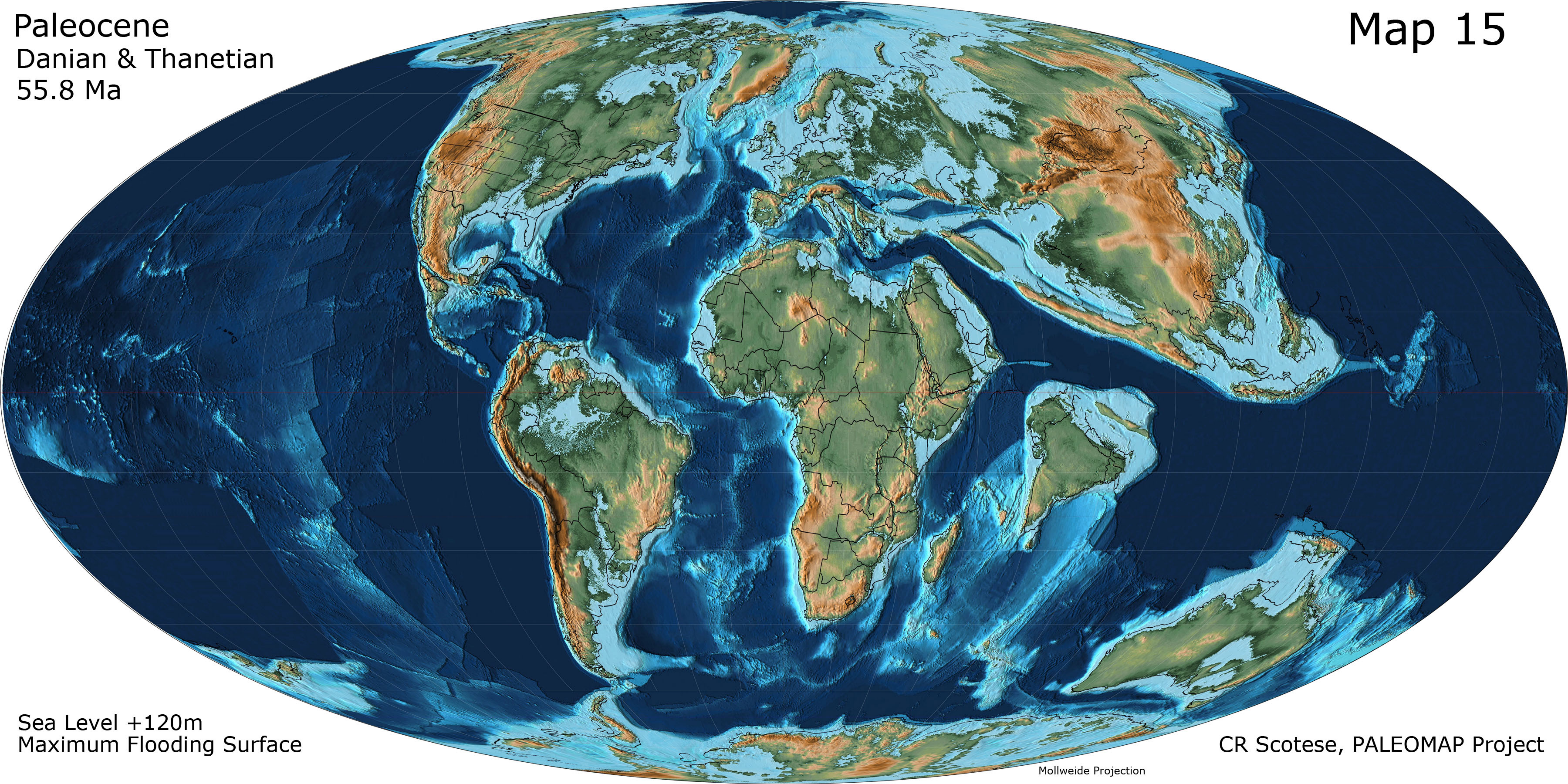
Early Eocene
PETM (Thanetian/Ypresian)
55.8 Ma

Map 14

Sea Level +80m
Transgressive Systems Tract

CR Scotese, PALEOMAP Project

Mollweide Projection



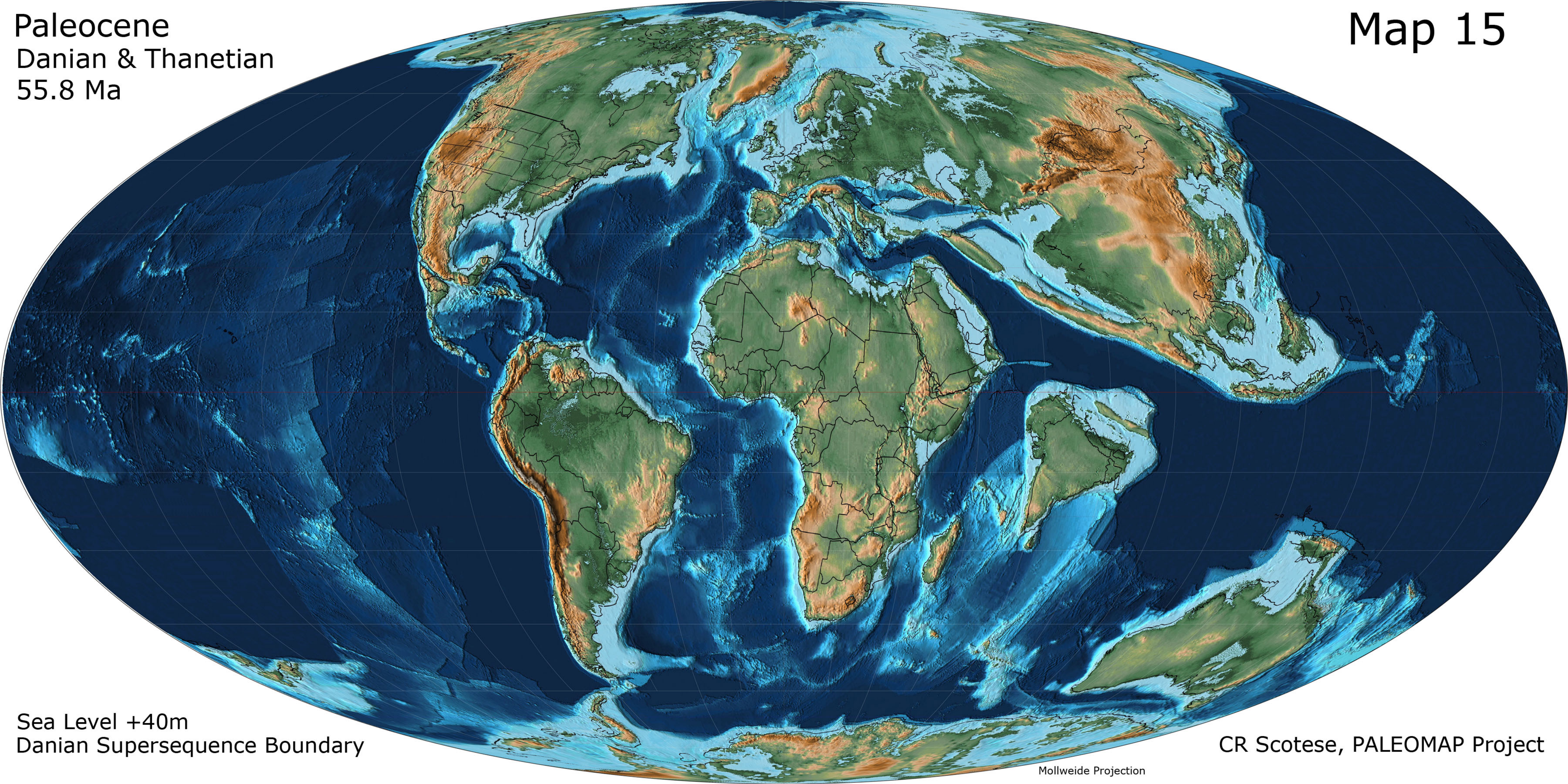
Paleocene
Danian & Thanetian
55.8 Ma

Map 15

Sea Level +120m
Maximum Flooding Surface

CR Scotese, PALEOMAP Project

Mollweide Projection



Map 15

Paleocene
Danian & Thanetian
55.8 Ma

Sea Level +40m
Danian Supersequence Boundary

CR Scotese, PALEOMAP Project

Mollweide Projection