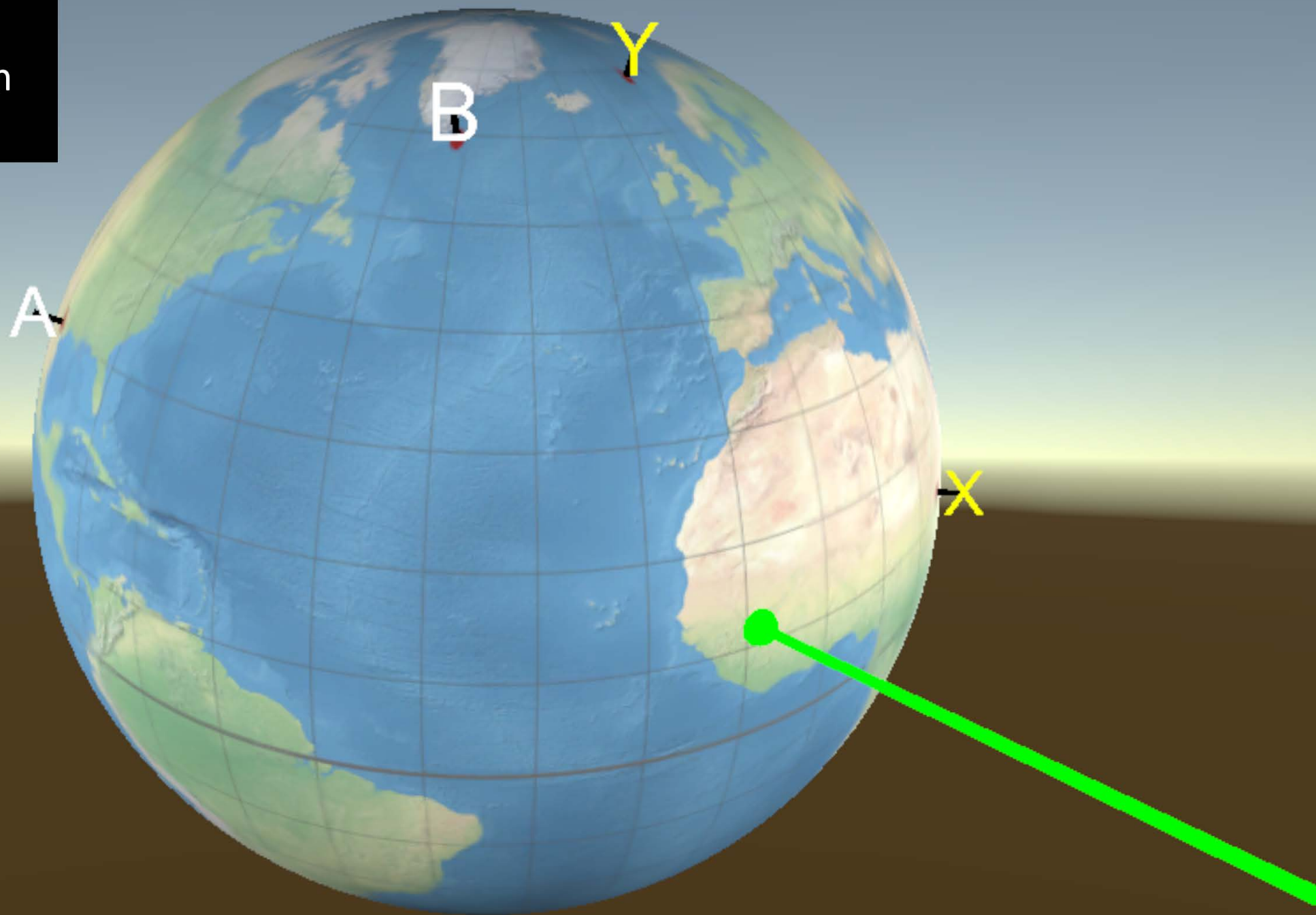
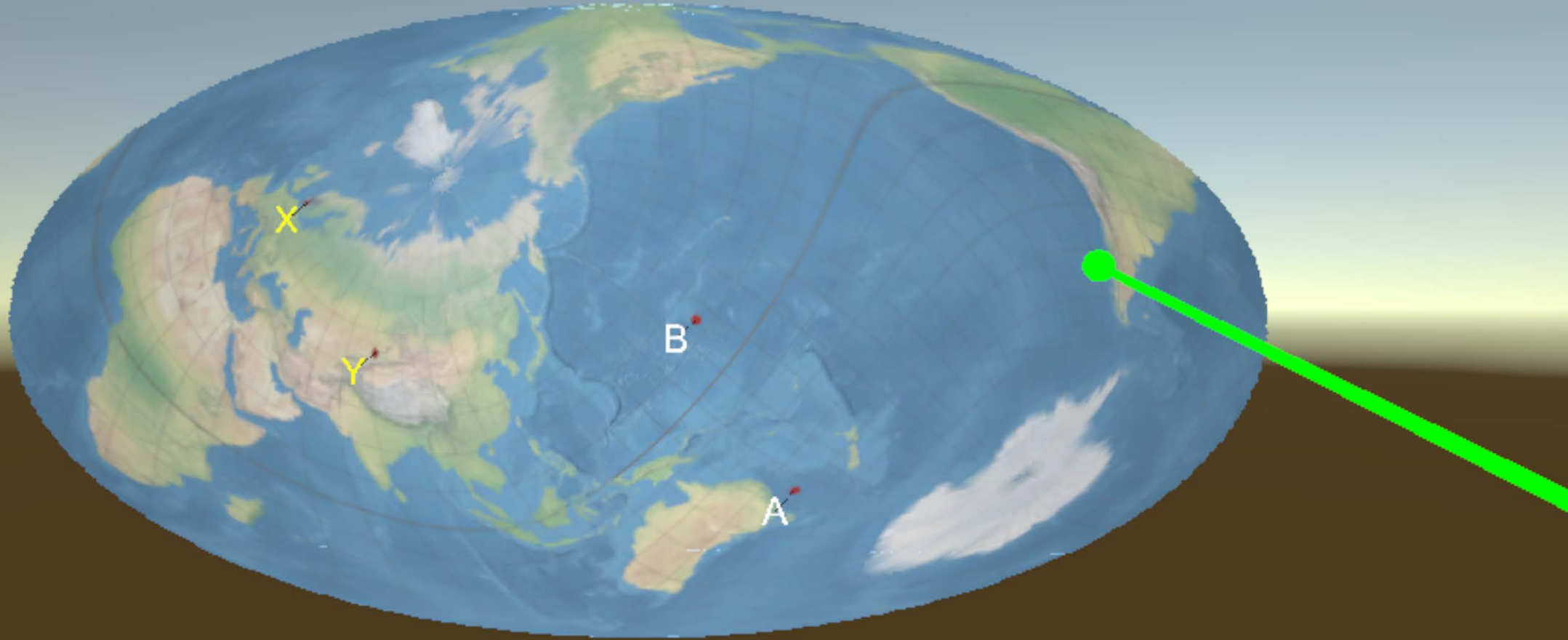


Sample tasks in different visualisations

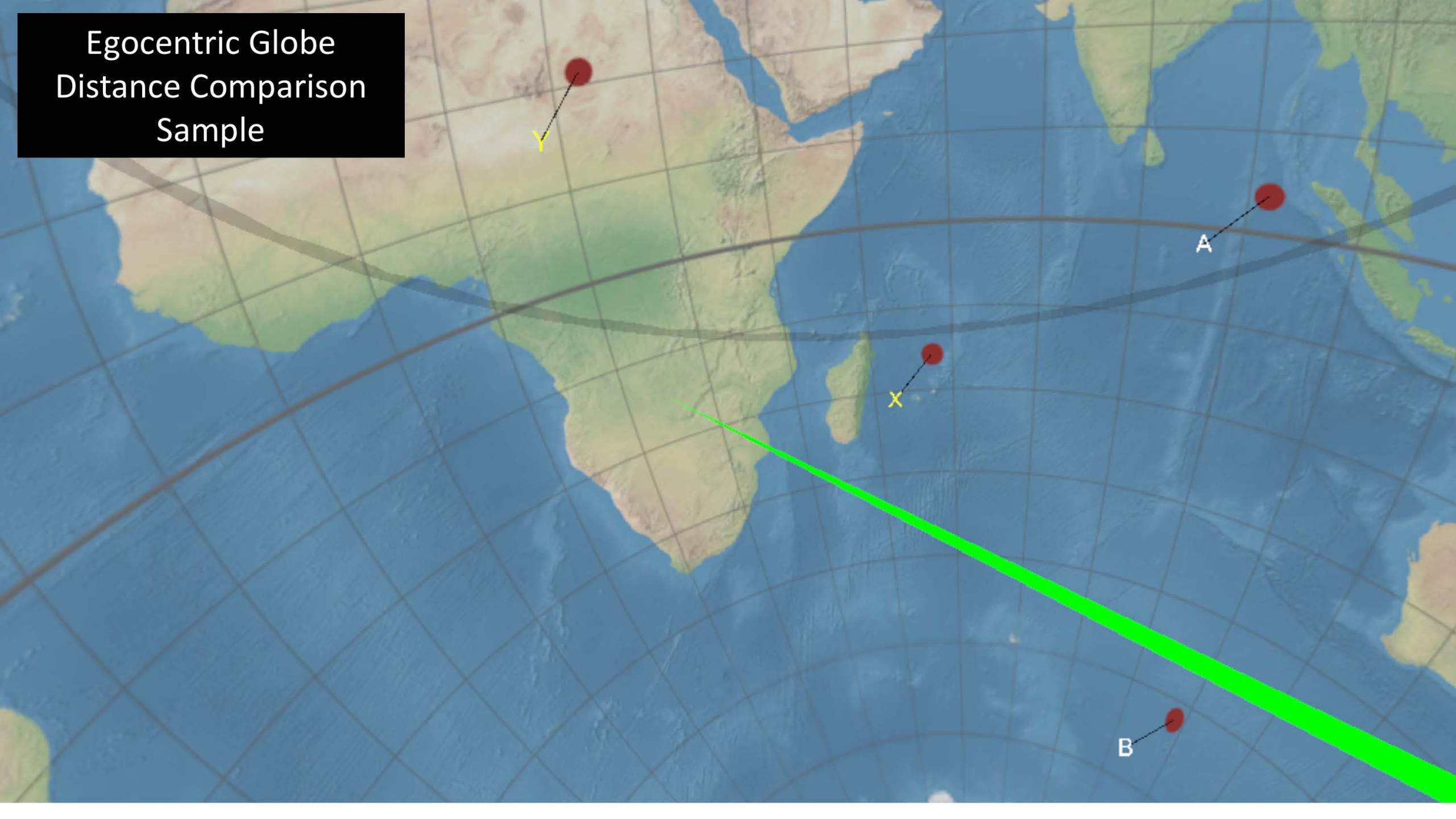
Exocentric Globe
Distance Comparison
Sample



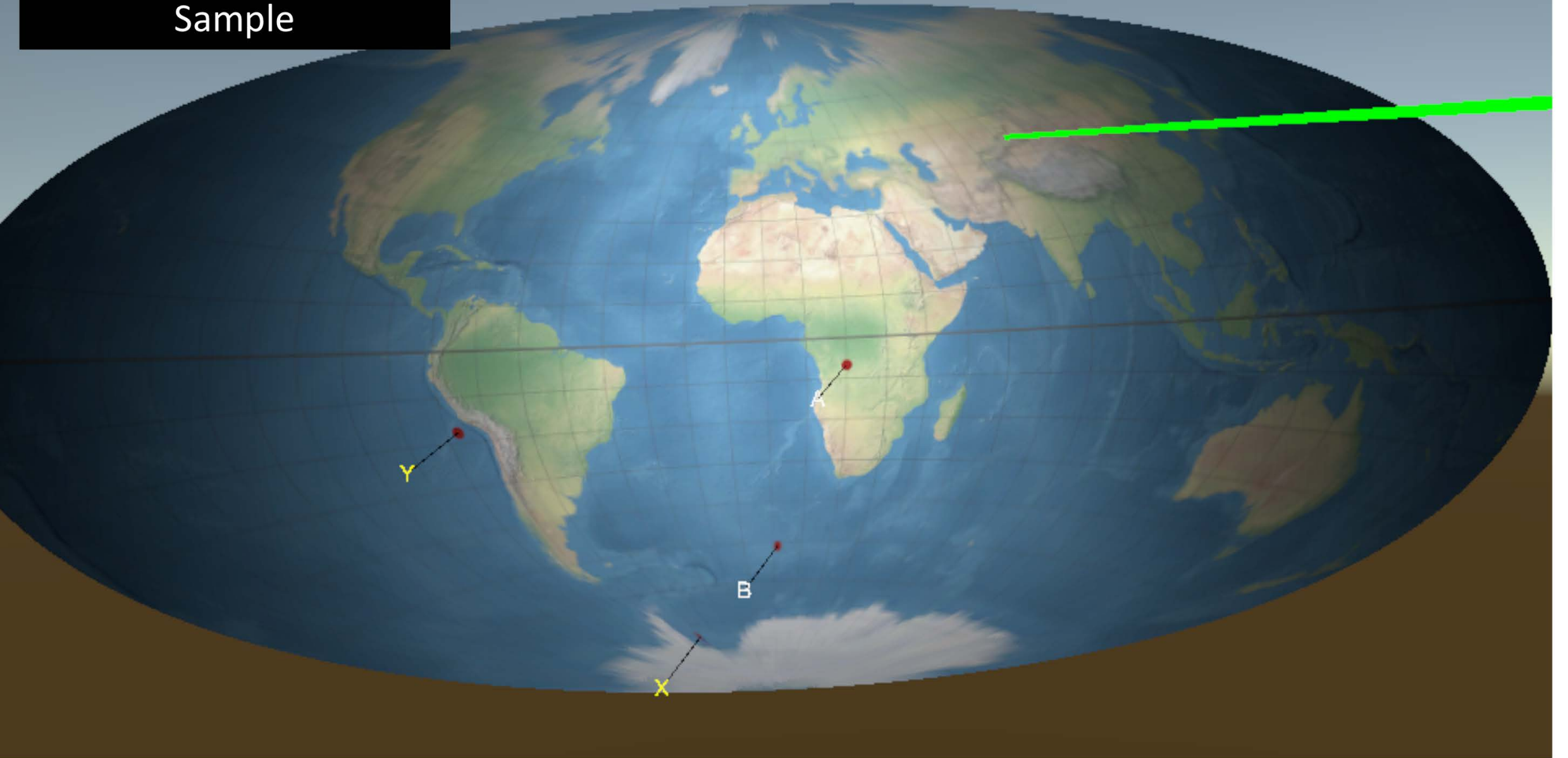
Flat Map
Distance Comparison
Sample



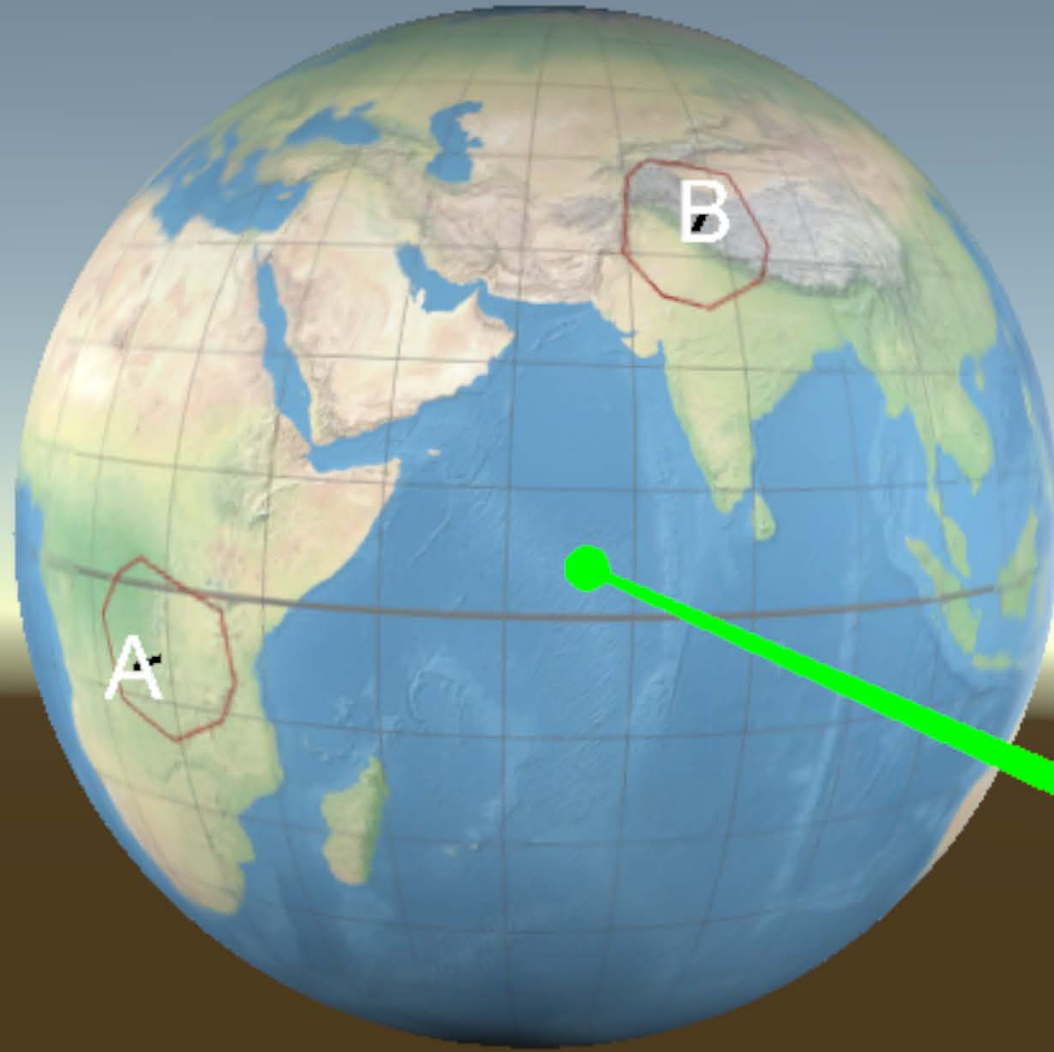
Egocentric Globe
Distance Comparison
Sample



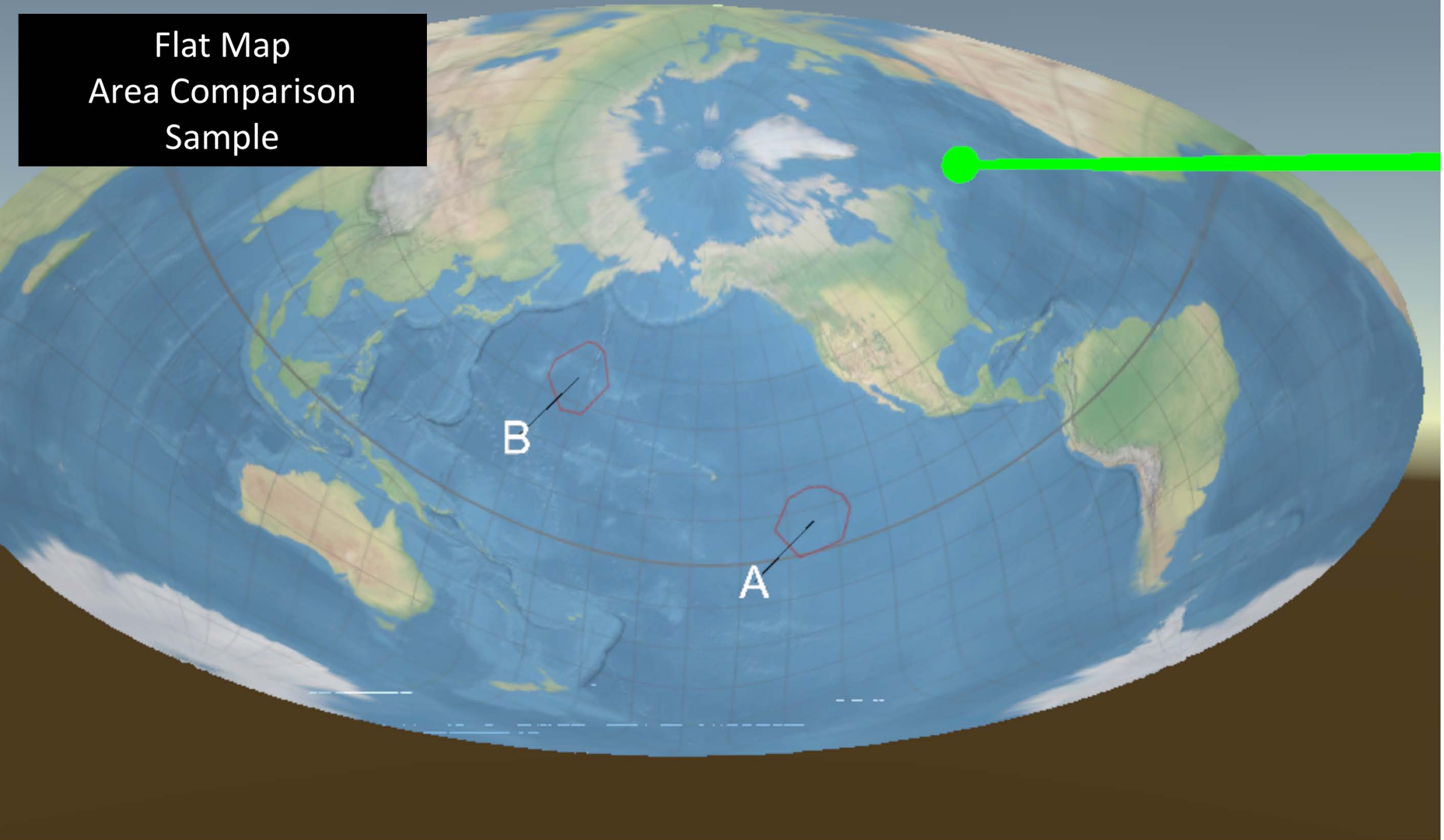
Curved Map
Distance Comparison
Sample



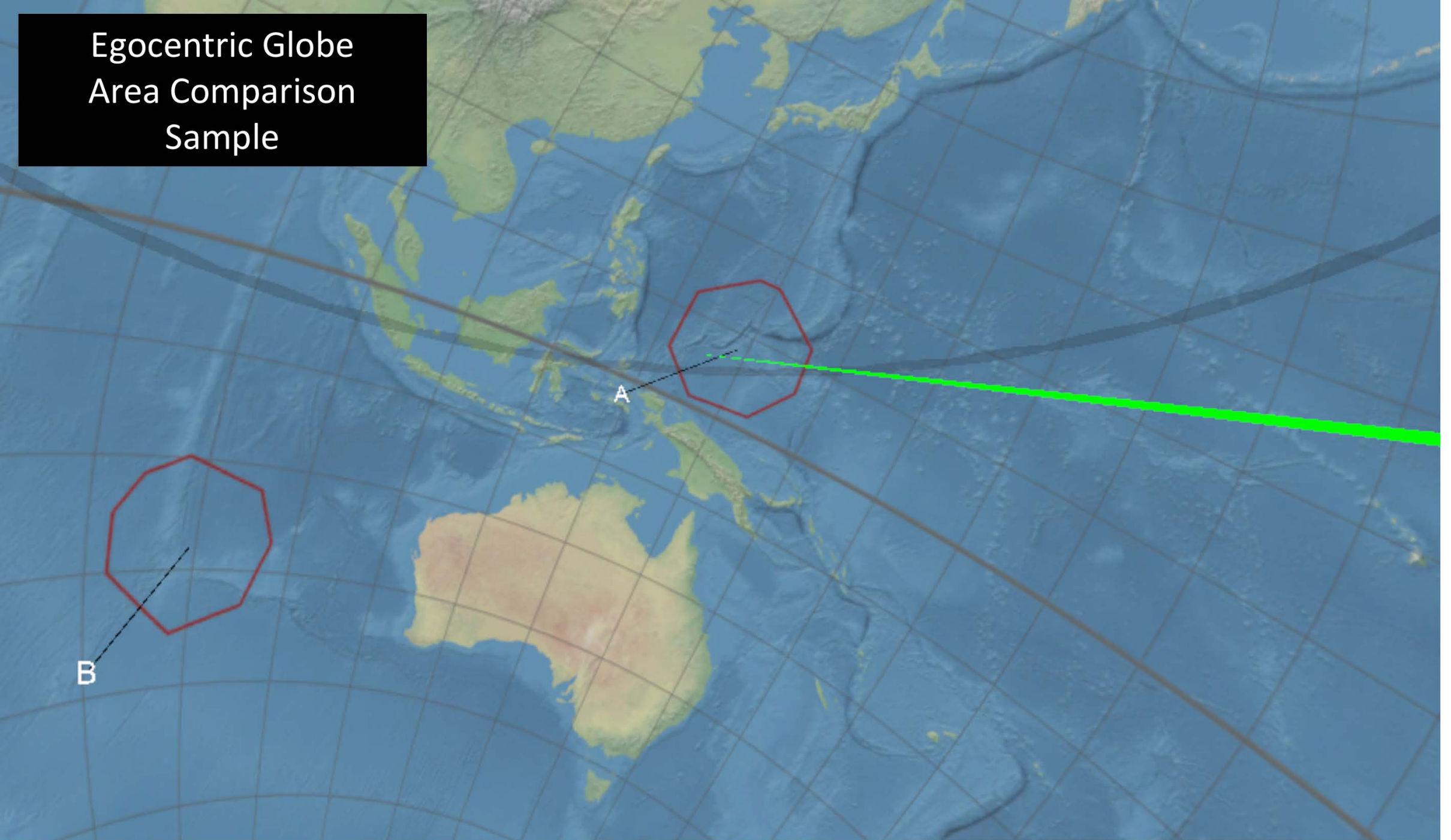
Exocentric Globe
Area Comparison
Sample



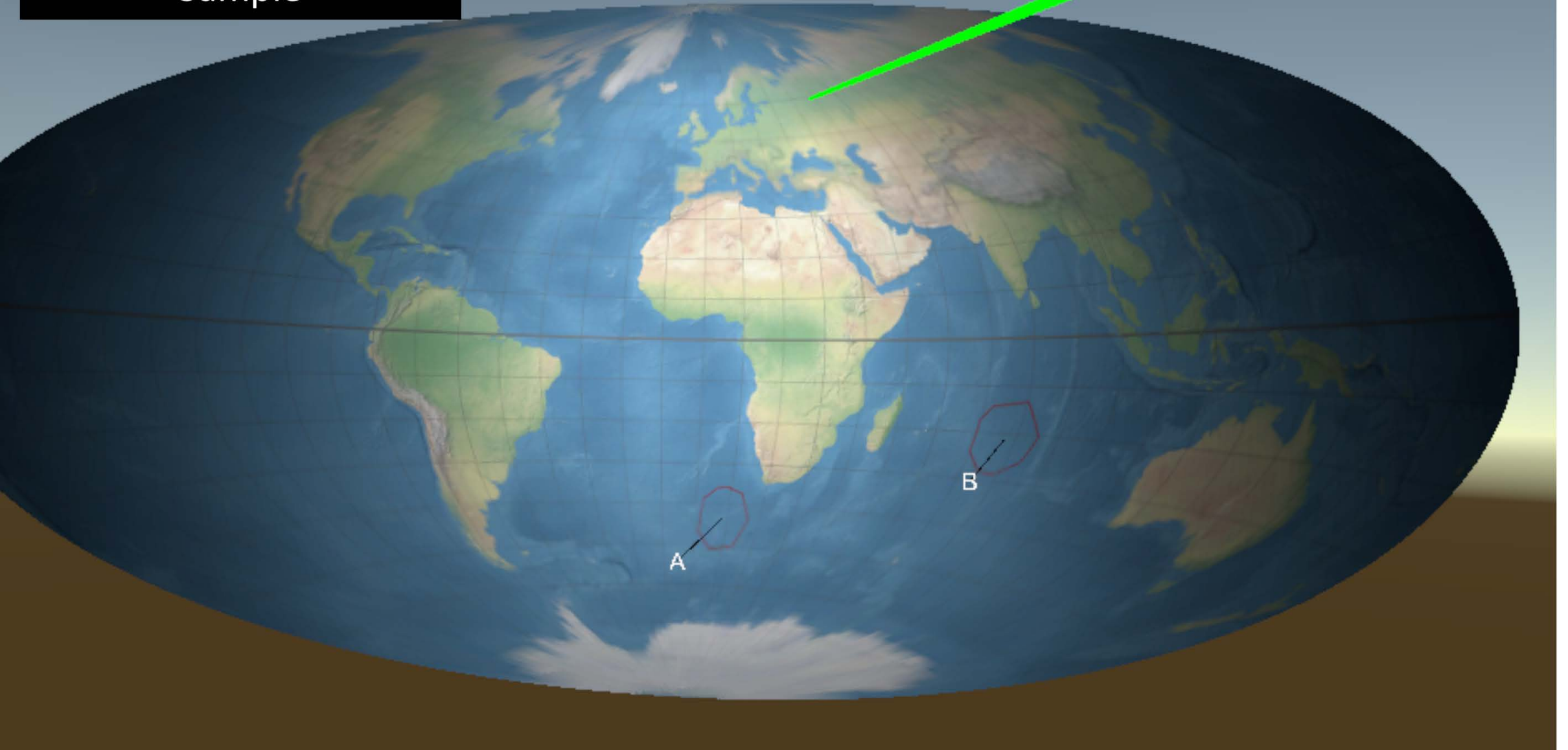
Flat Map
Area Comparison
Sample



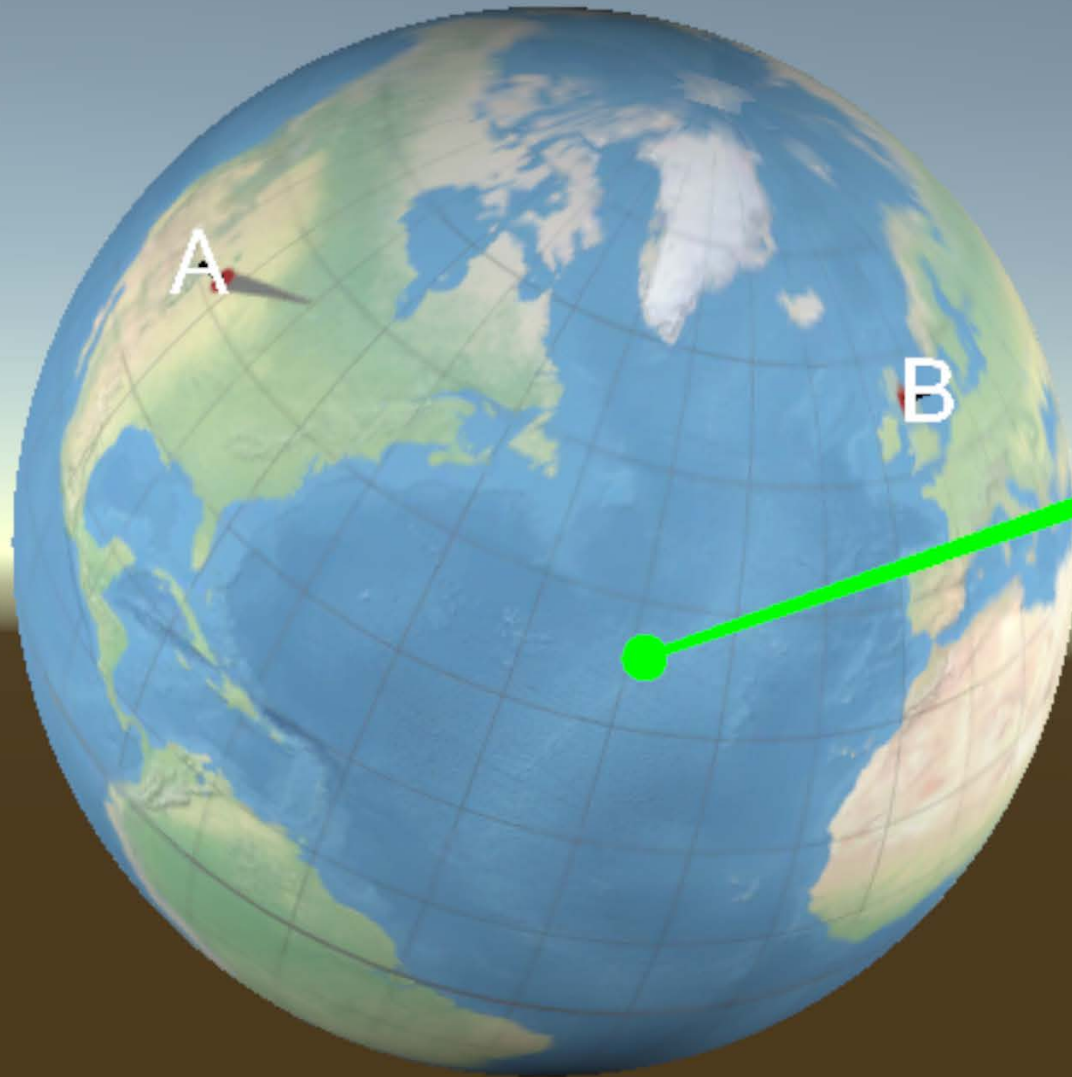
Egocentric Globe
Area Comparison
Sample



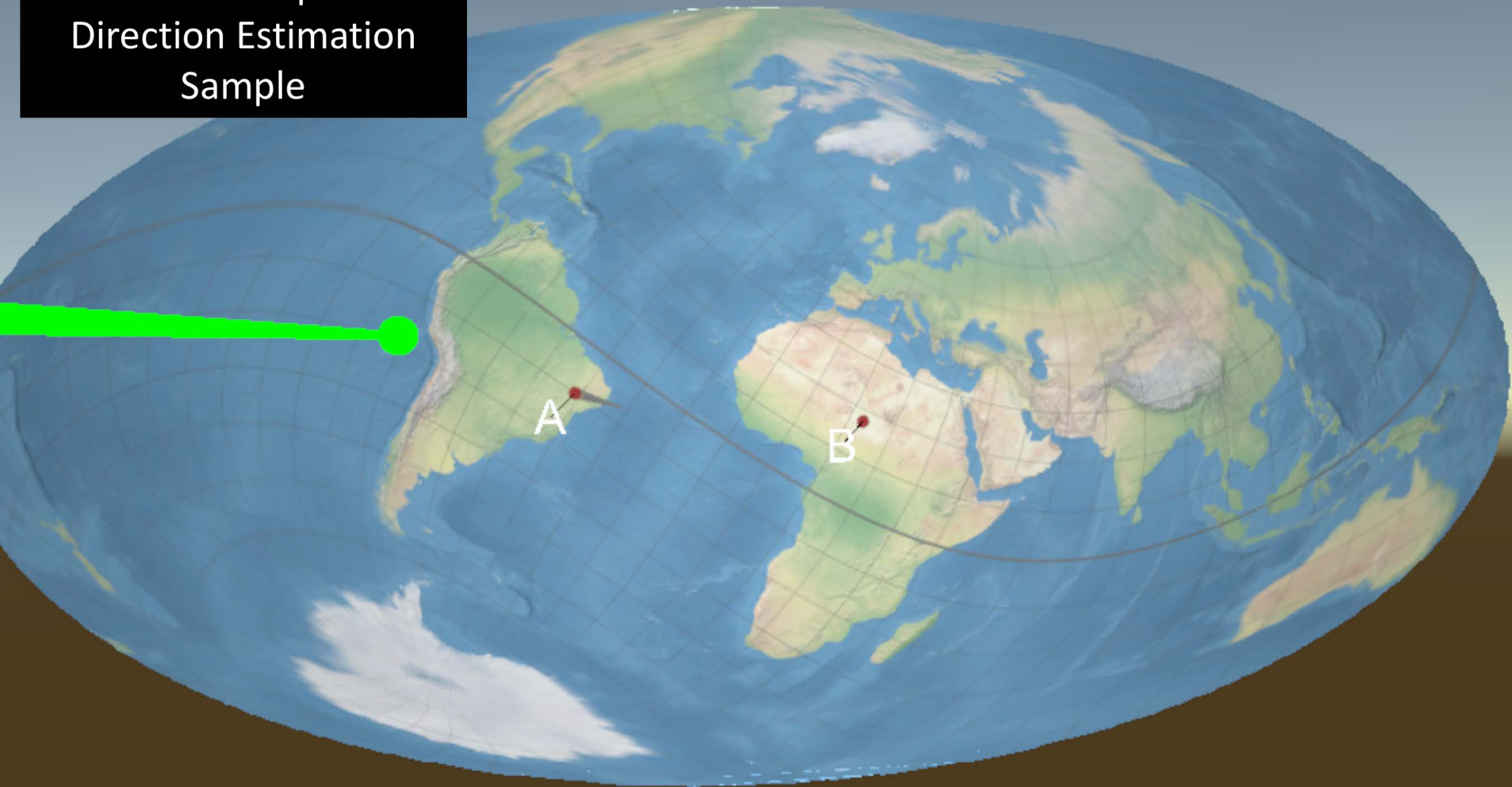
Curved Map
Area Comparison
Sample



Exocentric Globe
Direction Estimation
Sample



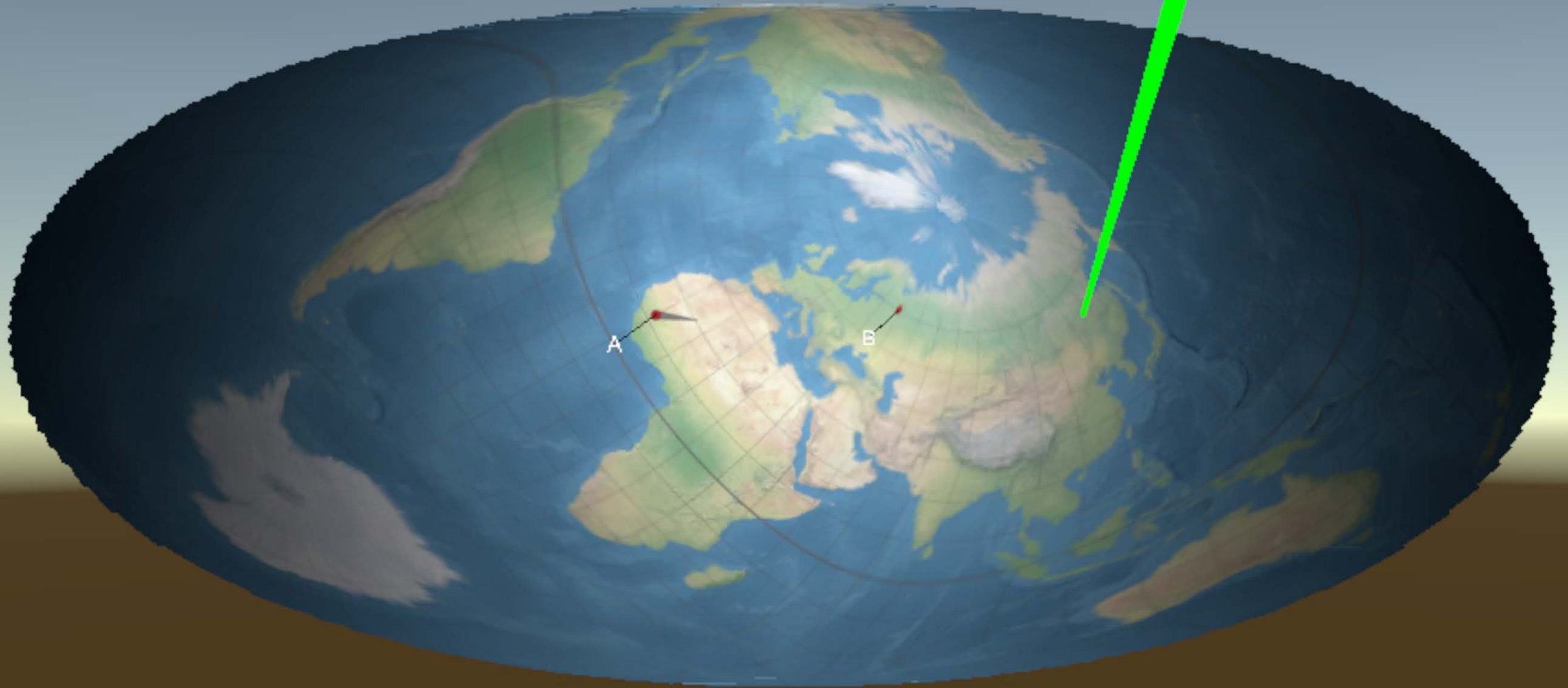
Flat Map
Direction Estimation
Sample



Egocentric Globe
Direction Estimation
Sample



Curved Map
Direction Estimation
Sample

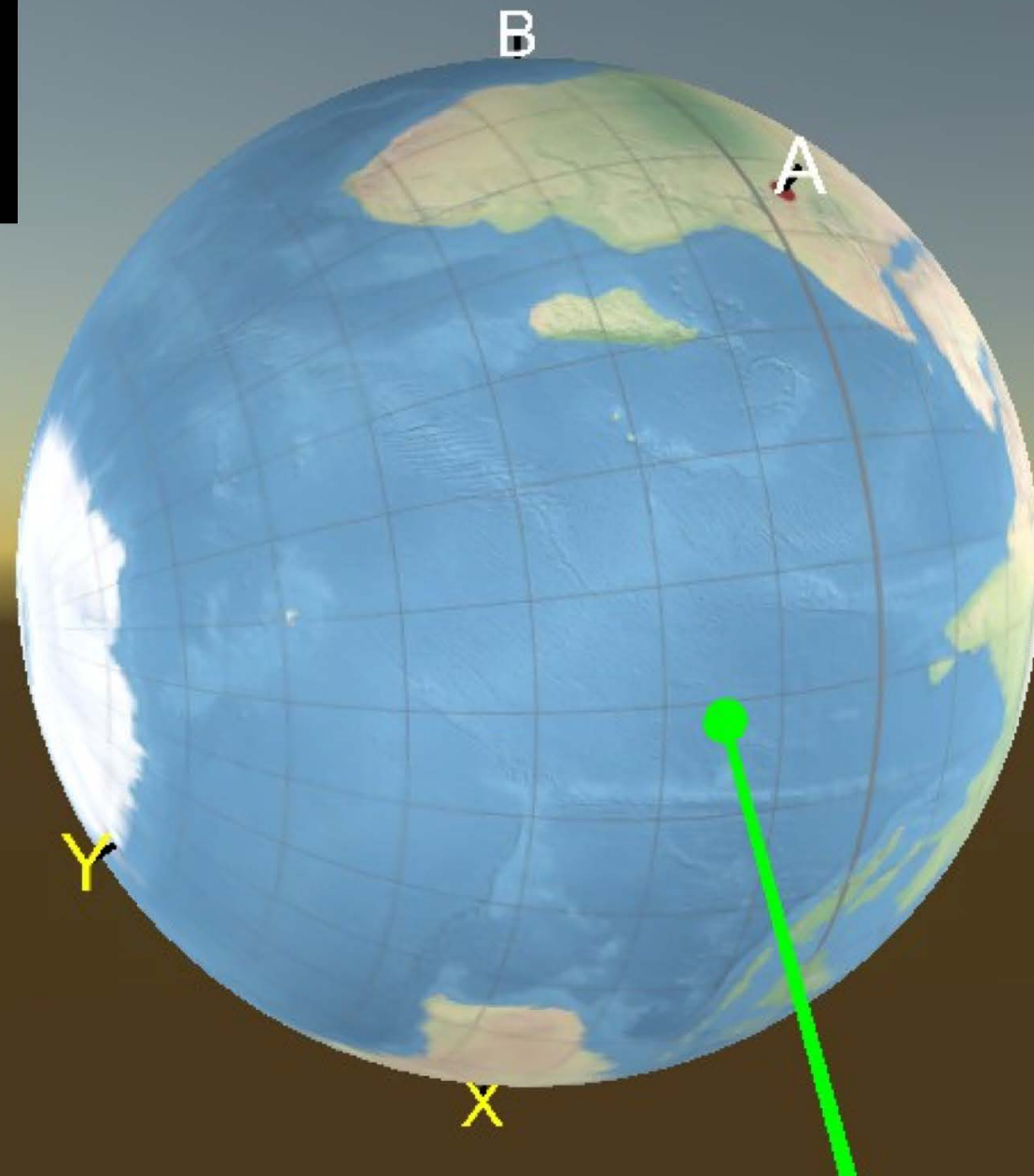


Far Distance condition in exocentric globe

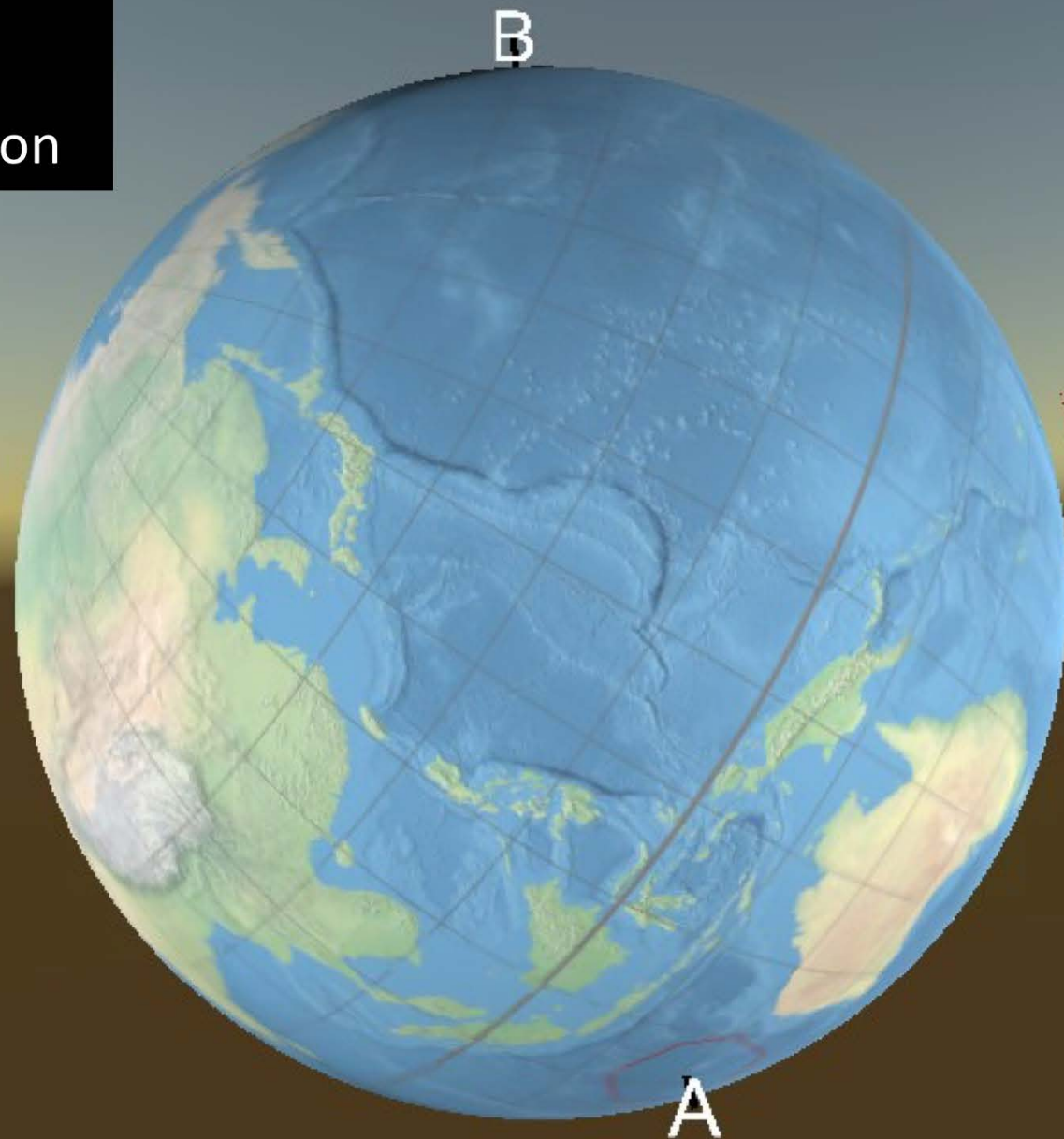
We used 120 degrees for the far distance condition, Note that even at 180 degrees separation (maximal separation), two points will still be visible at antipodes. However, perceptual distortion due to curvature of the globe was problematic for our participants in the far condition.

Here, we include images for the far distance condition to demonstrate the difficulties in those tasks.

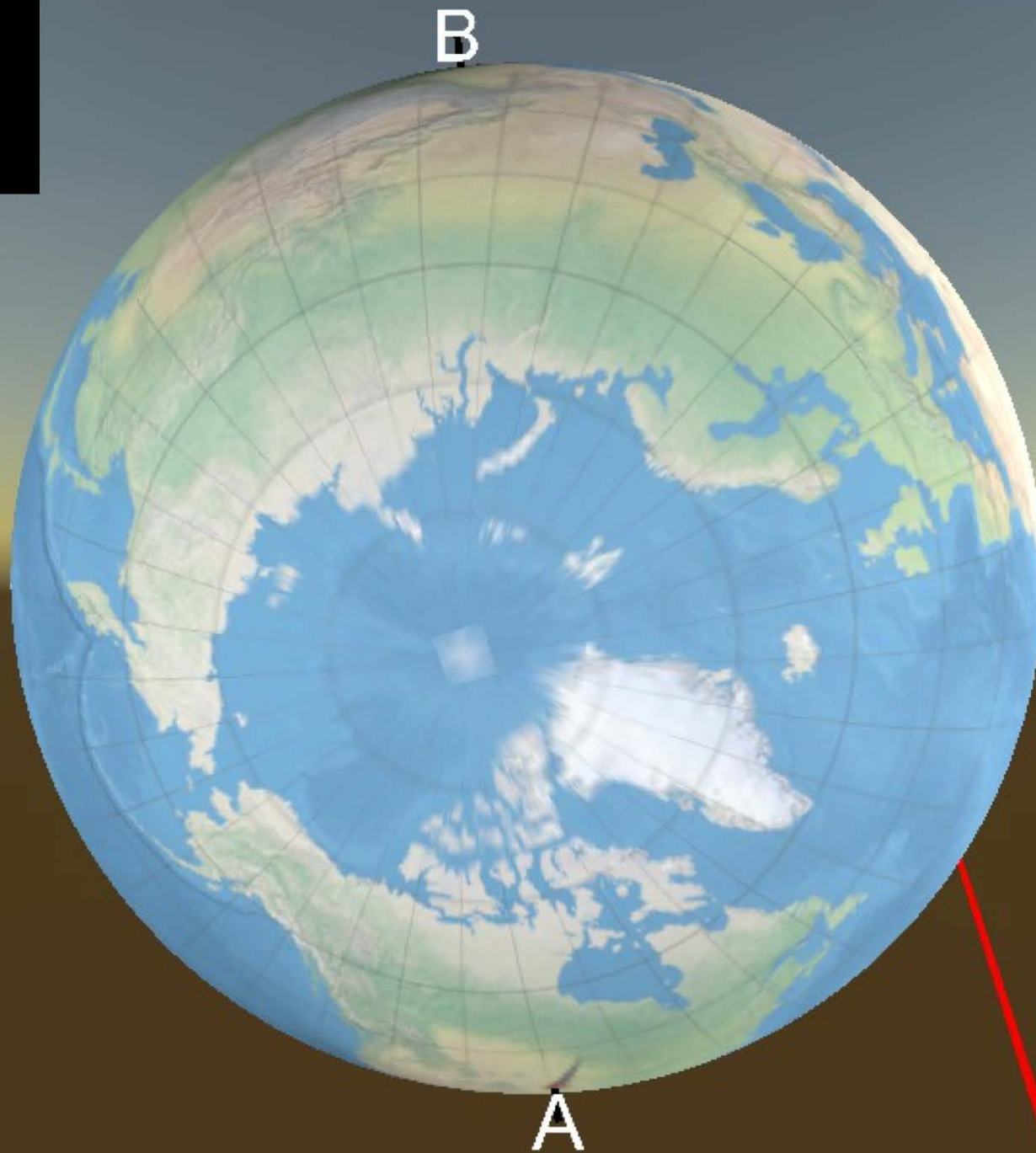
Distance comparison
in
Far distance condition



Area comparison
in
Far distance condition



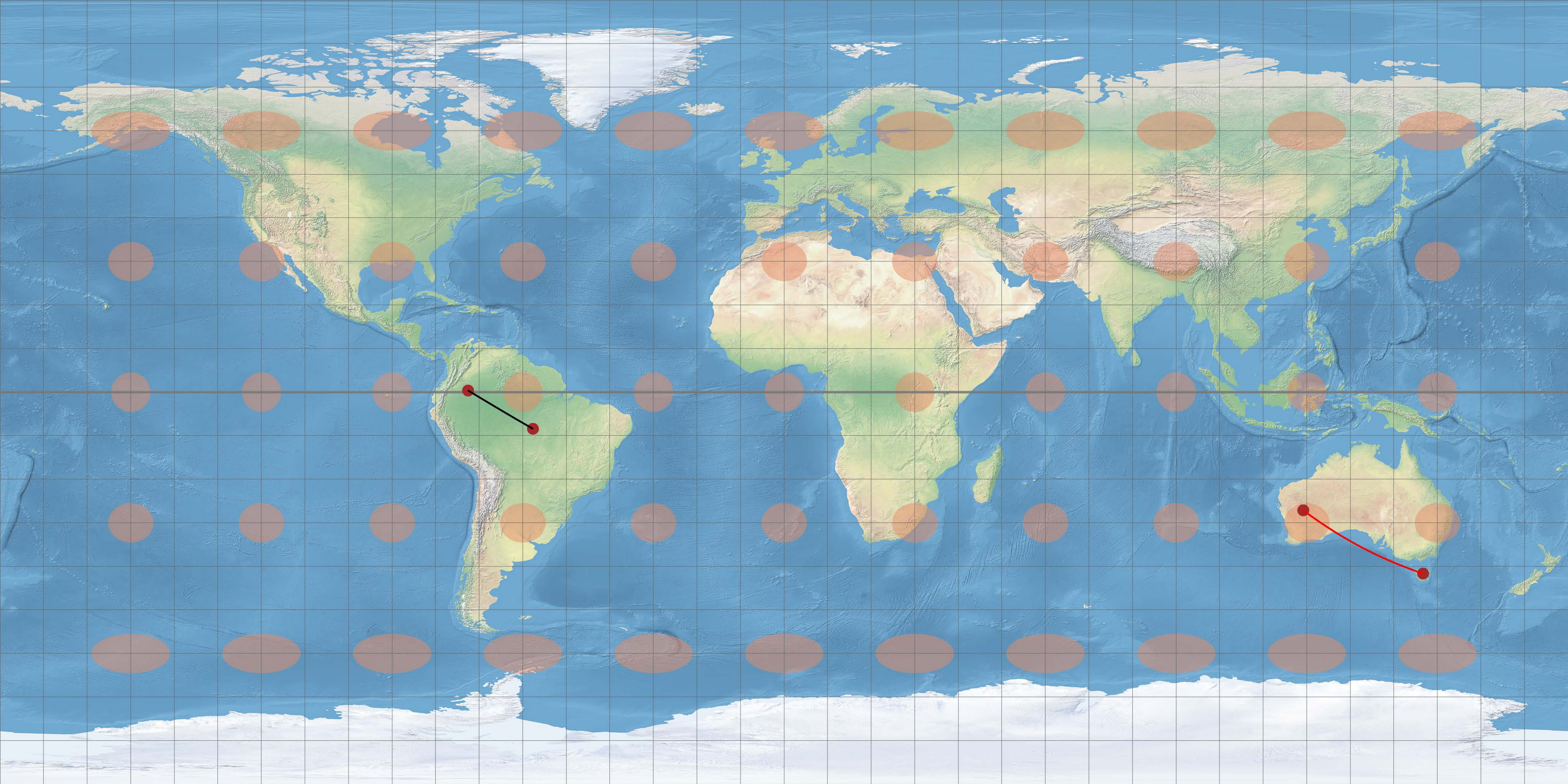
Direction estimation
in
Far distance condition

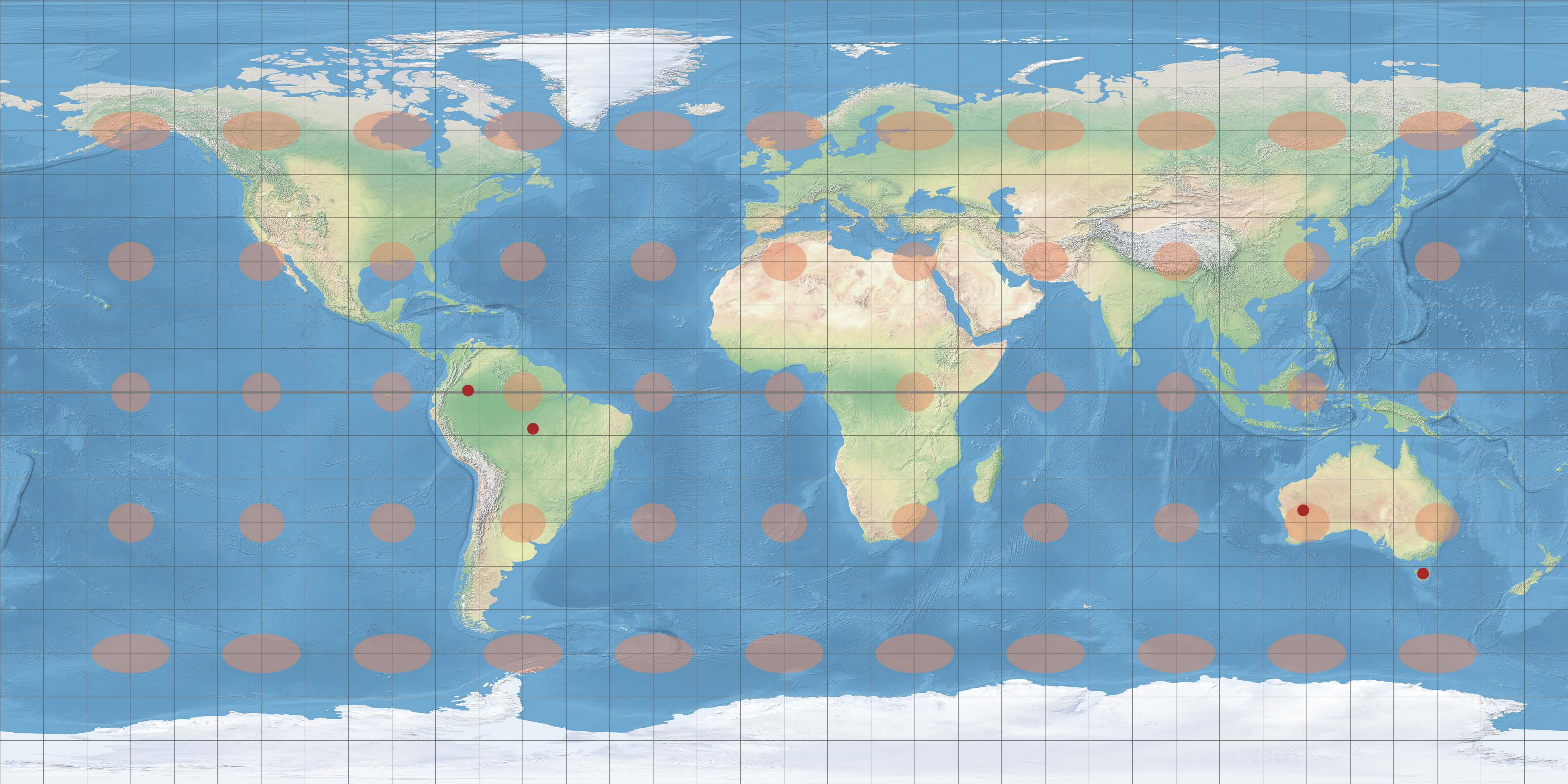


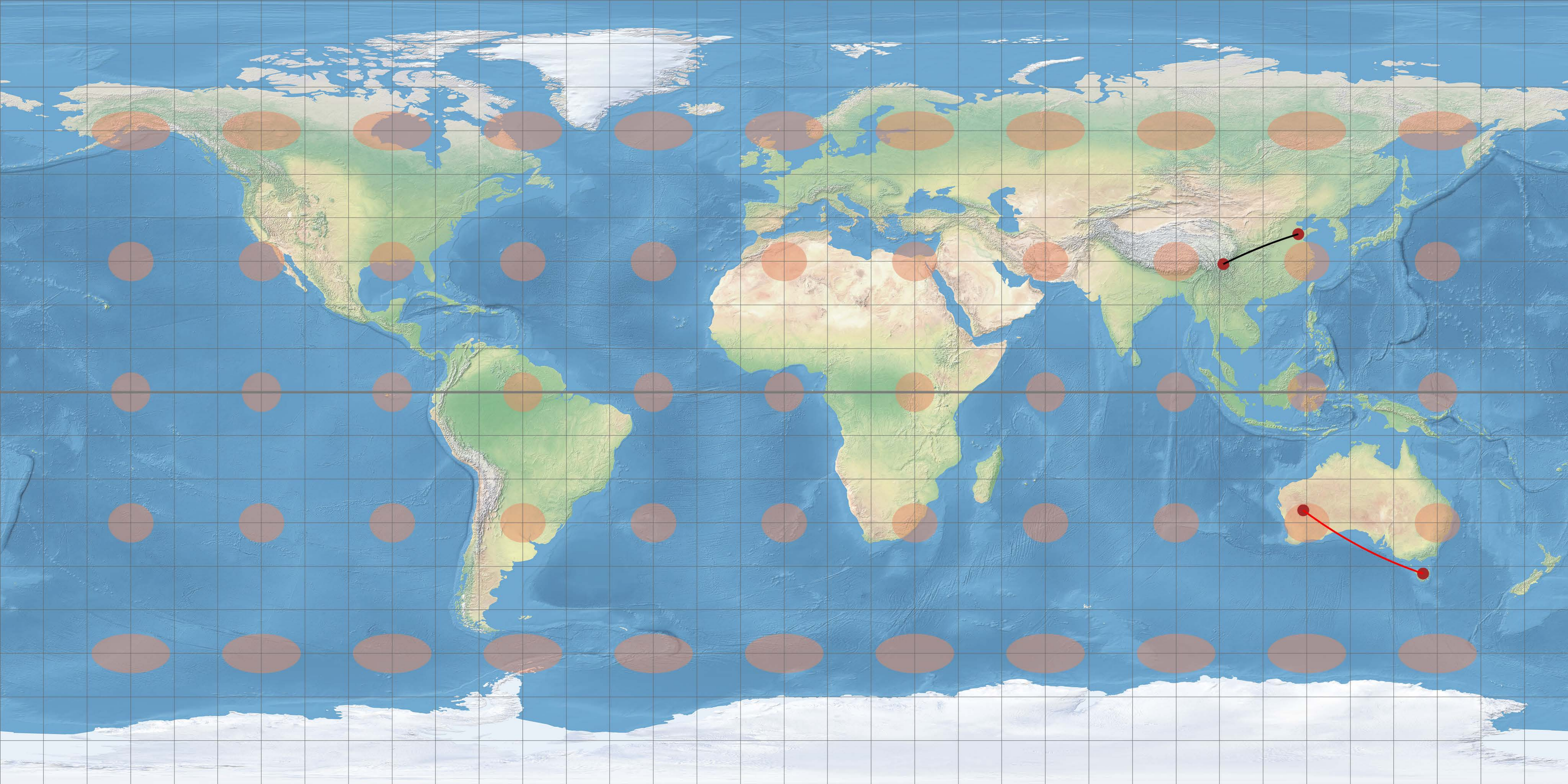
All texture images used in the study

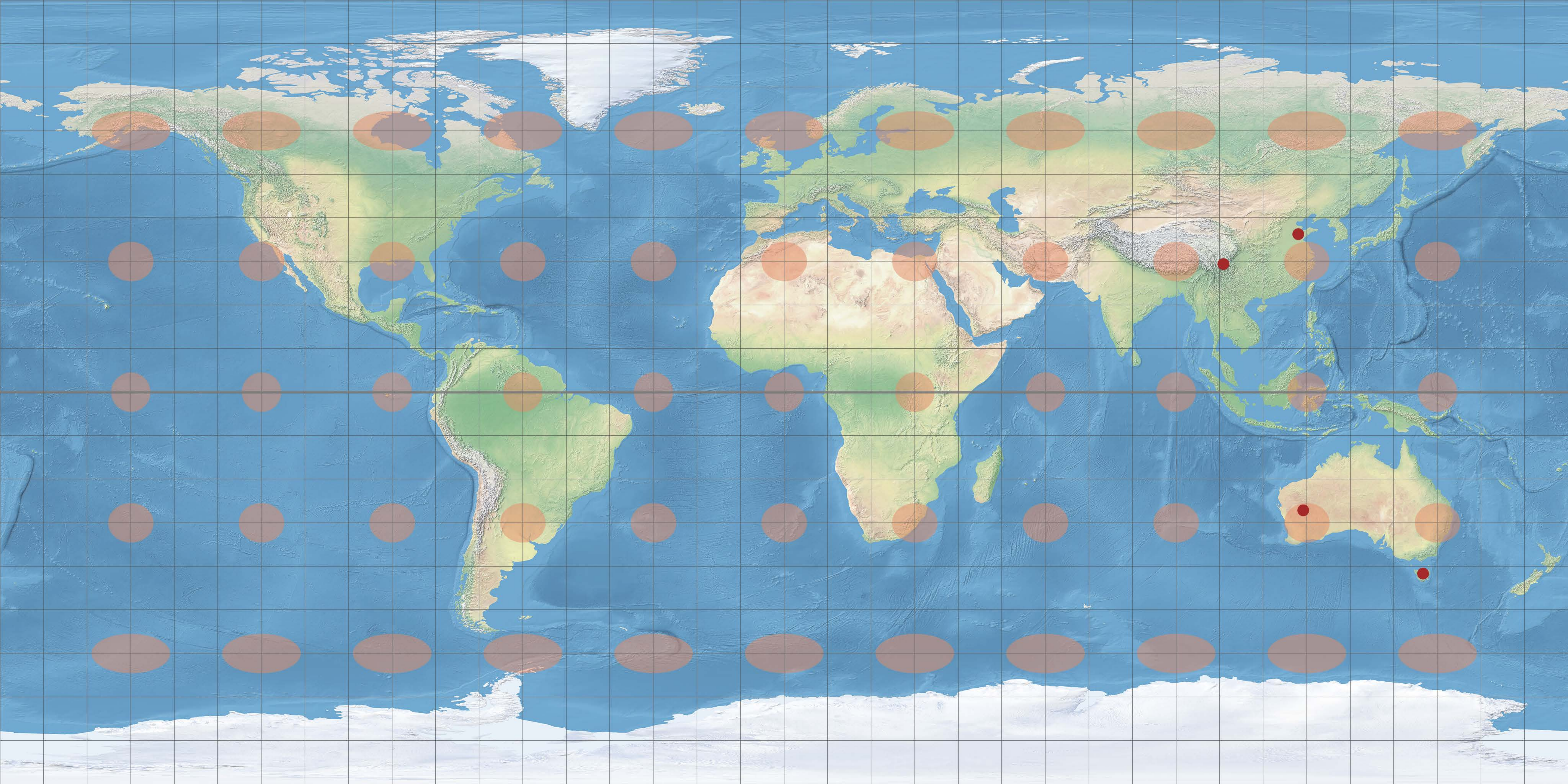
Distance comparison

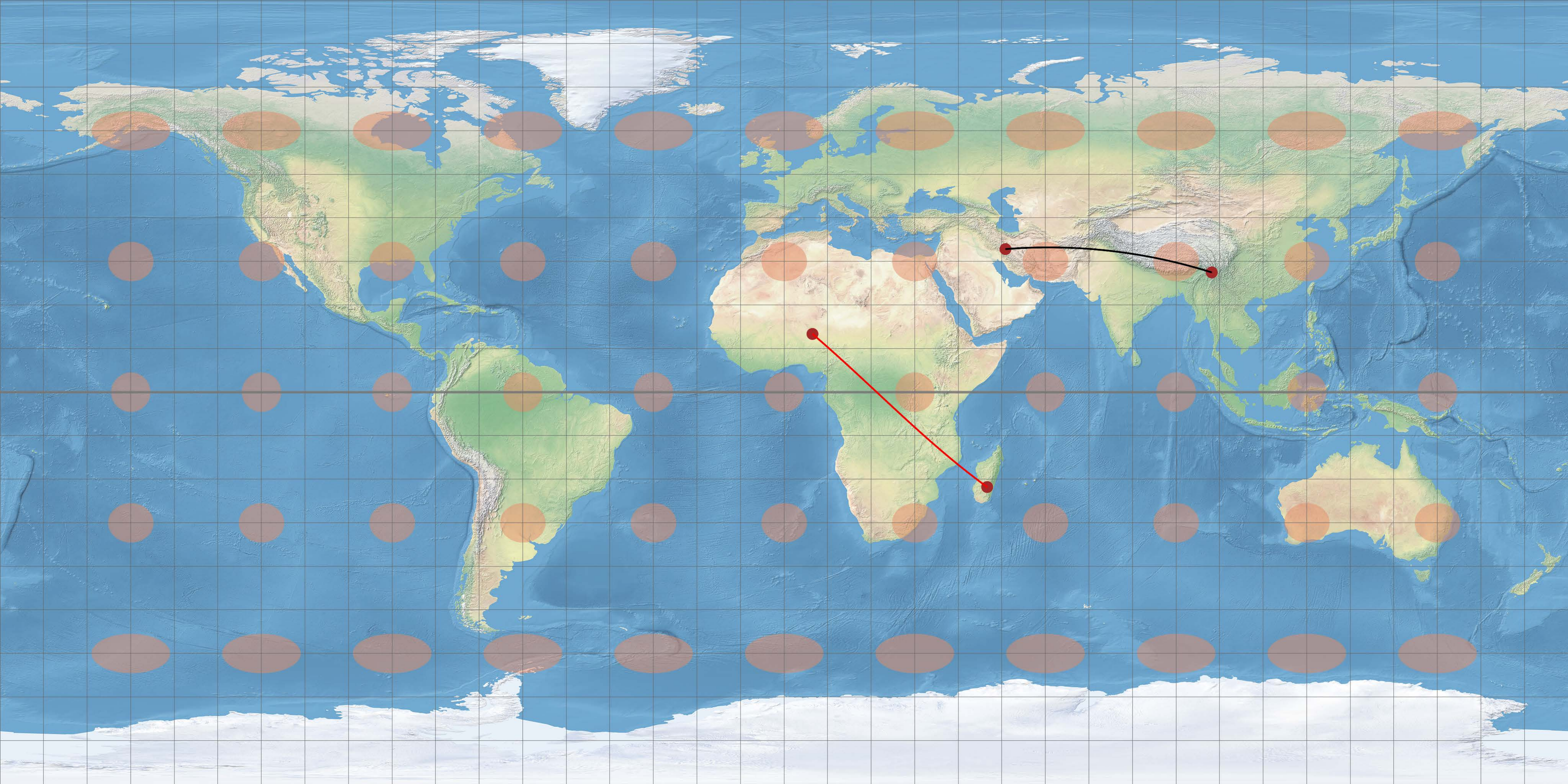
Training (with correct answers shown to participants)

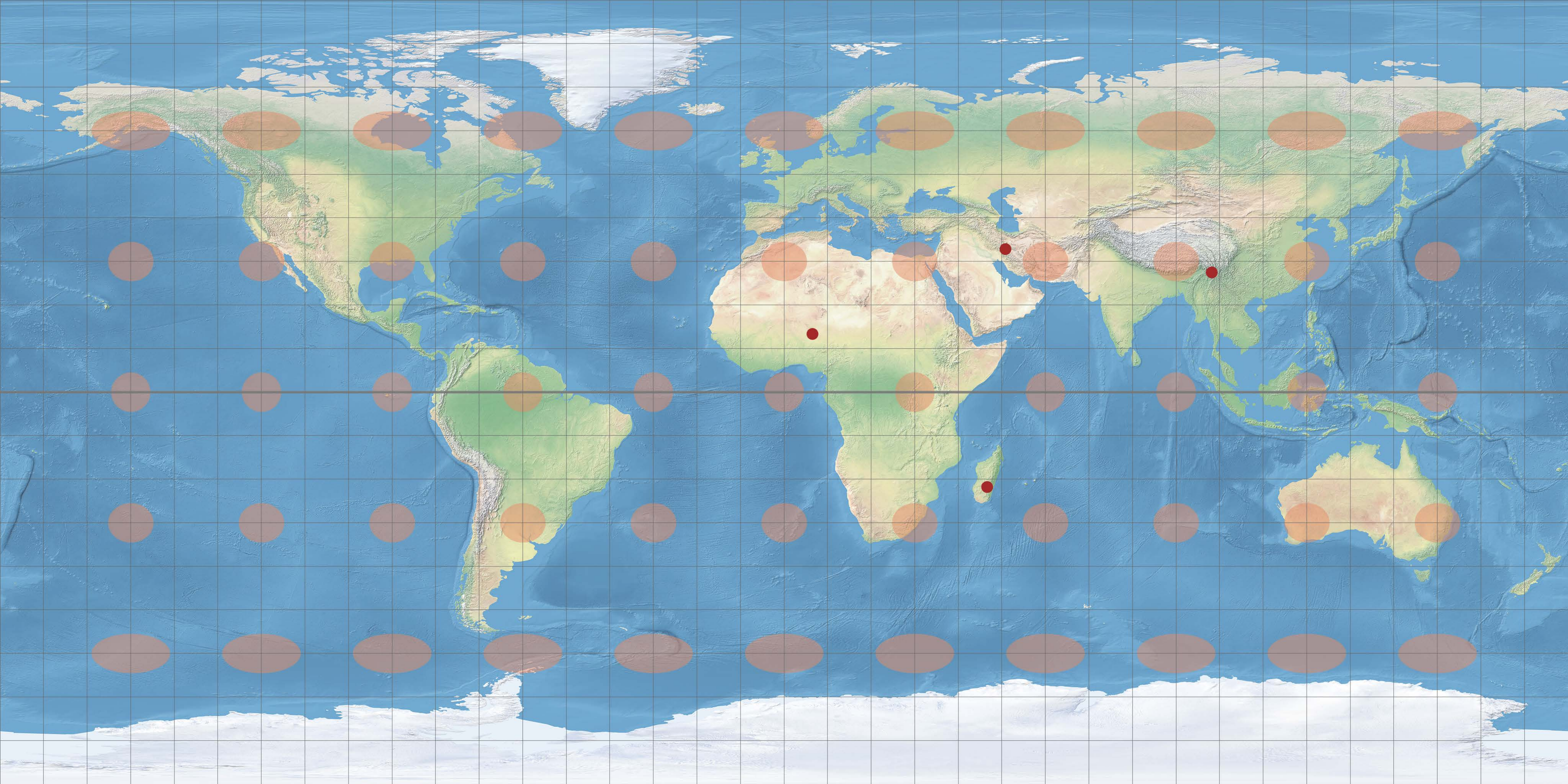


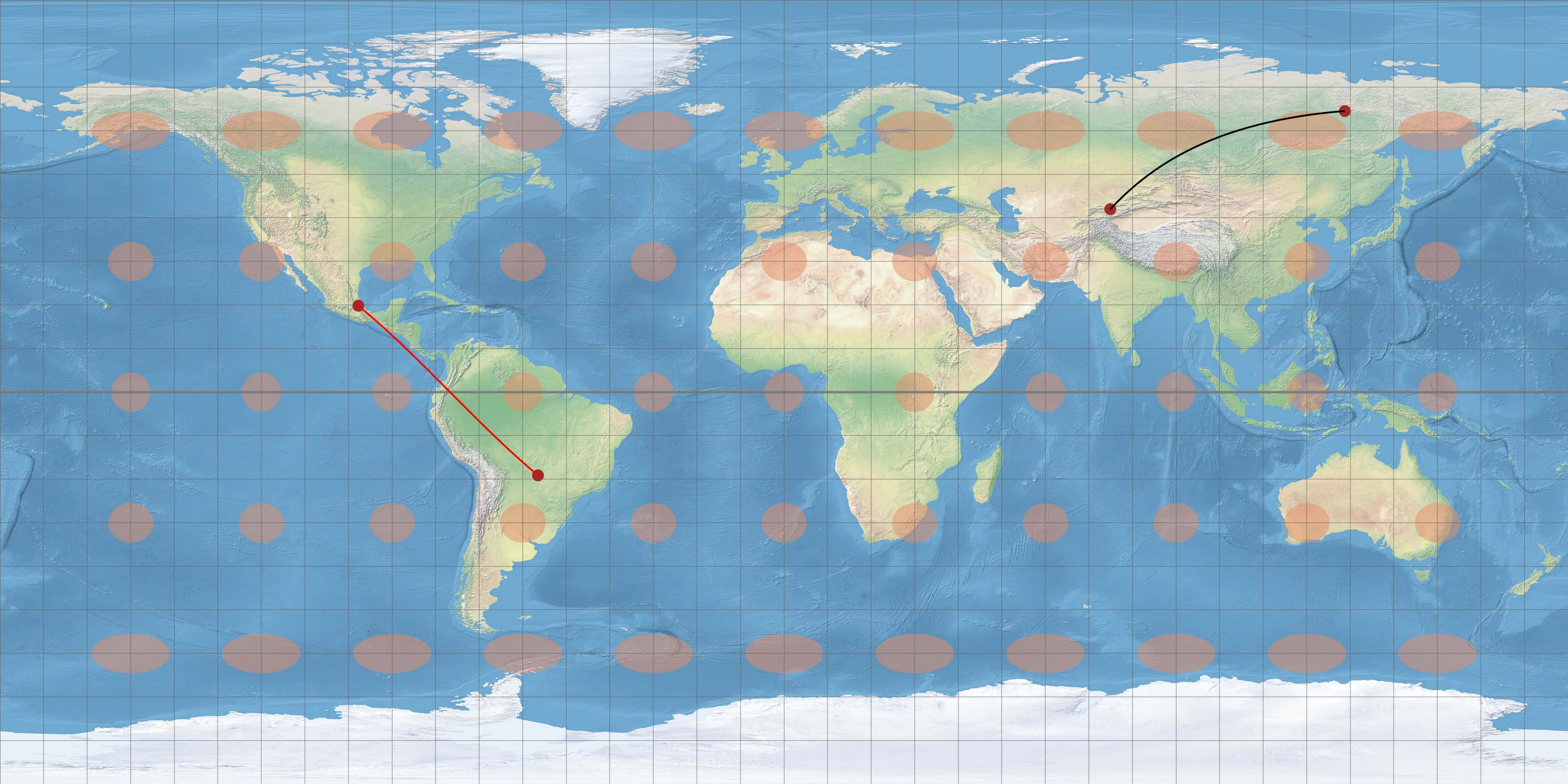


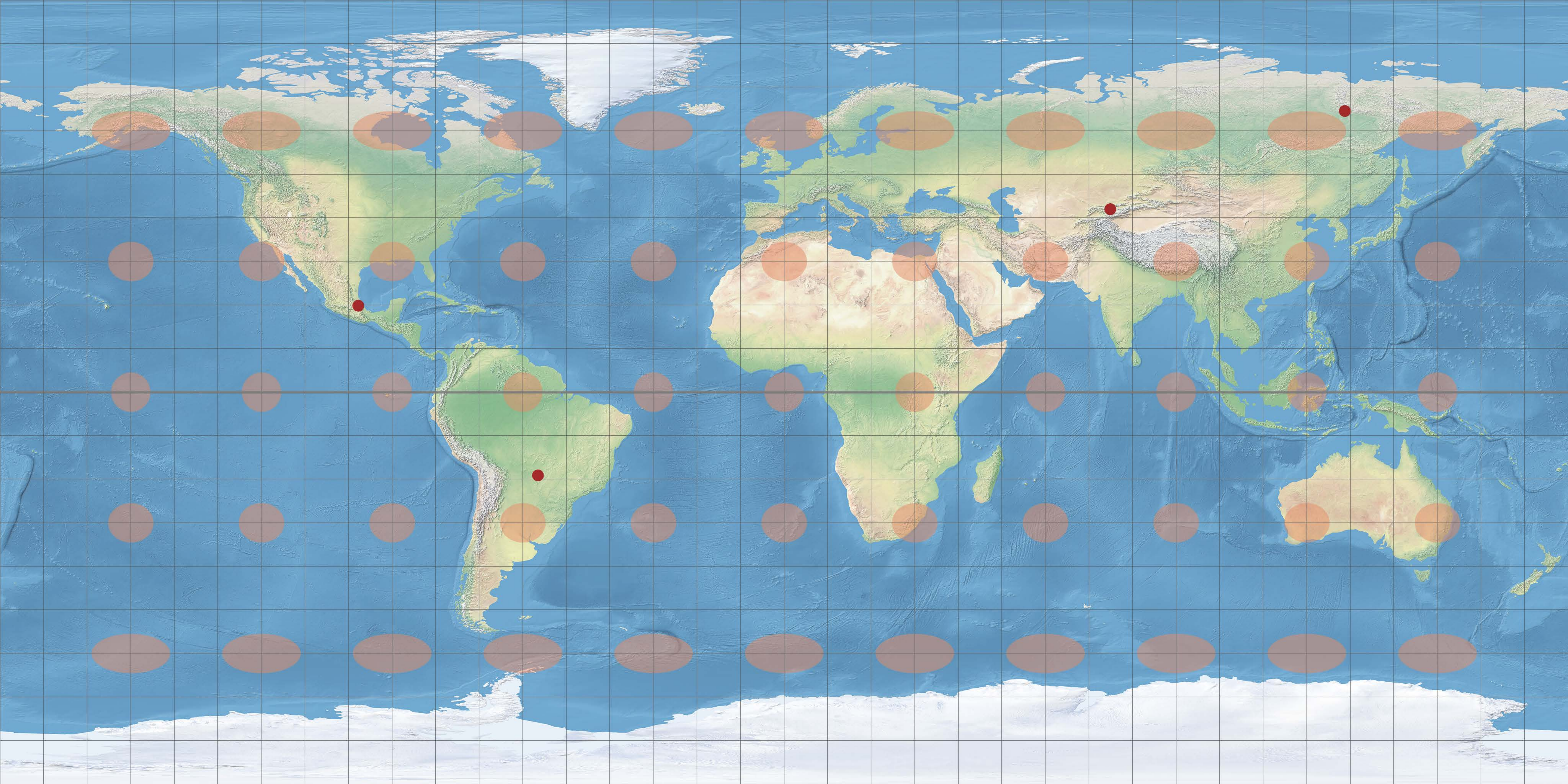


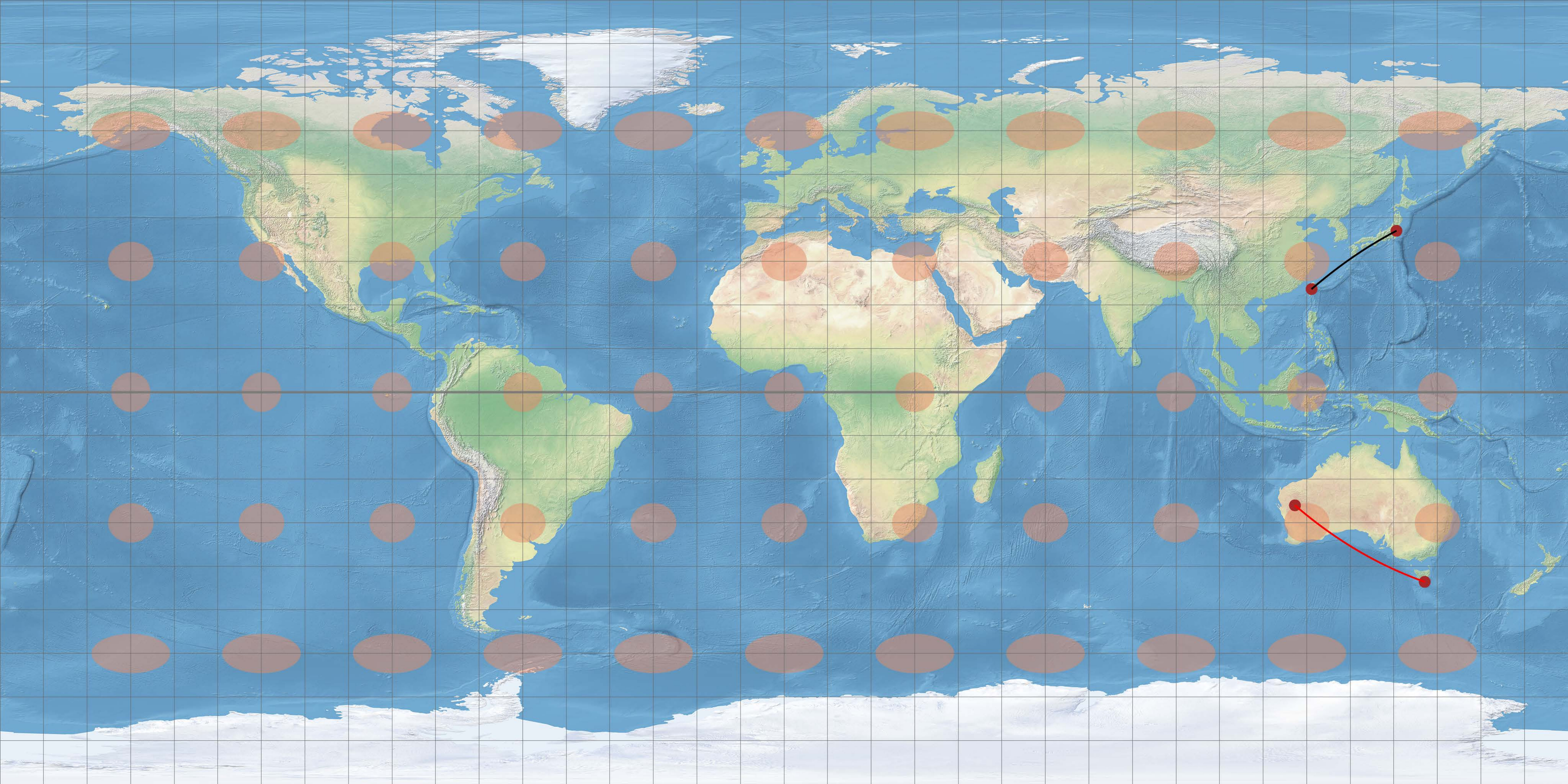


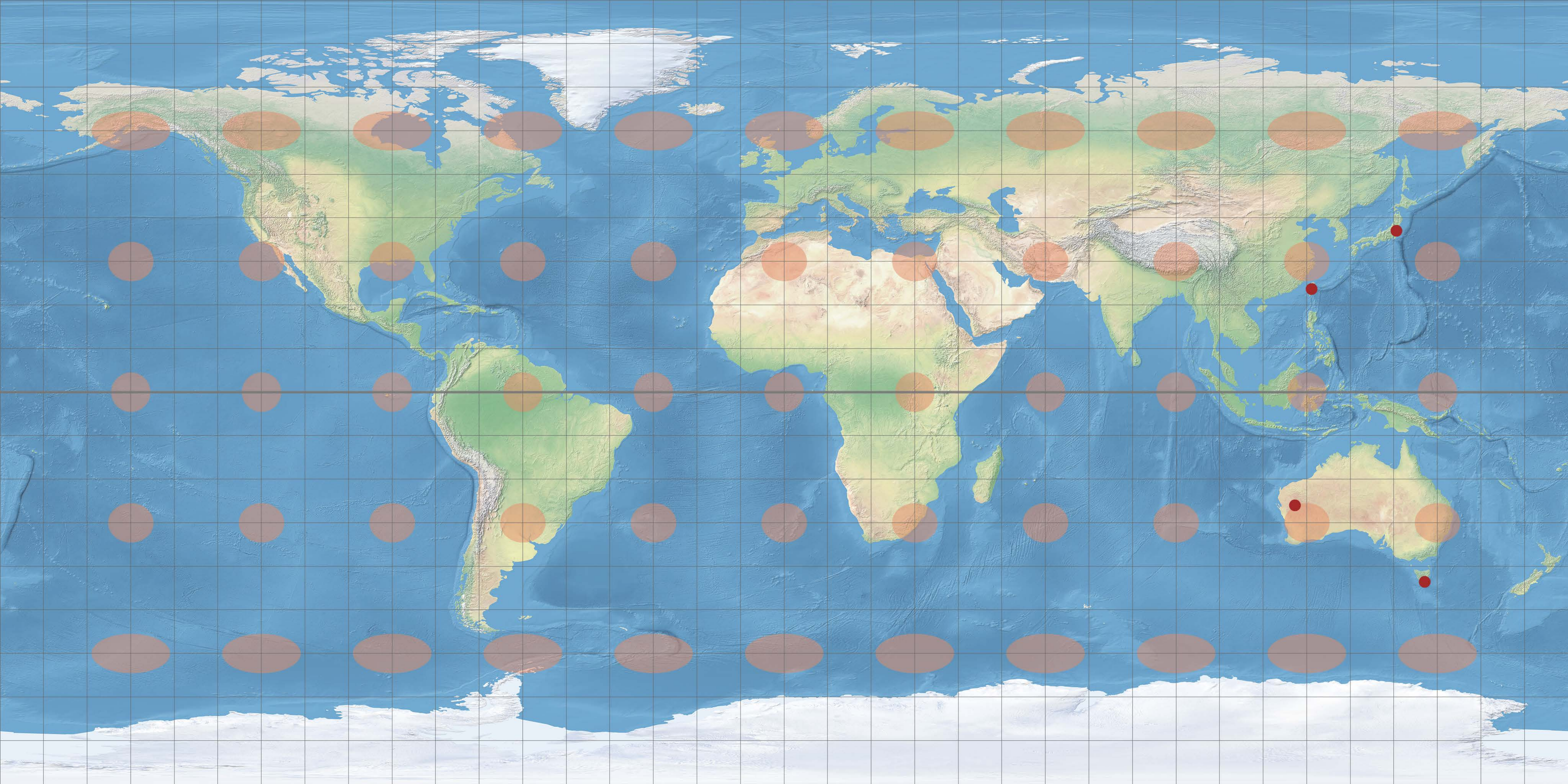


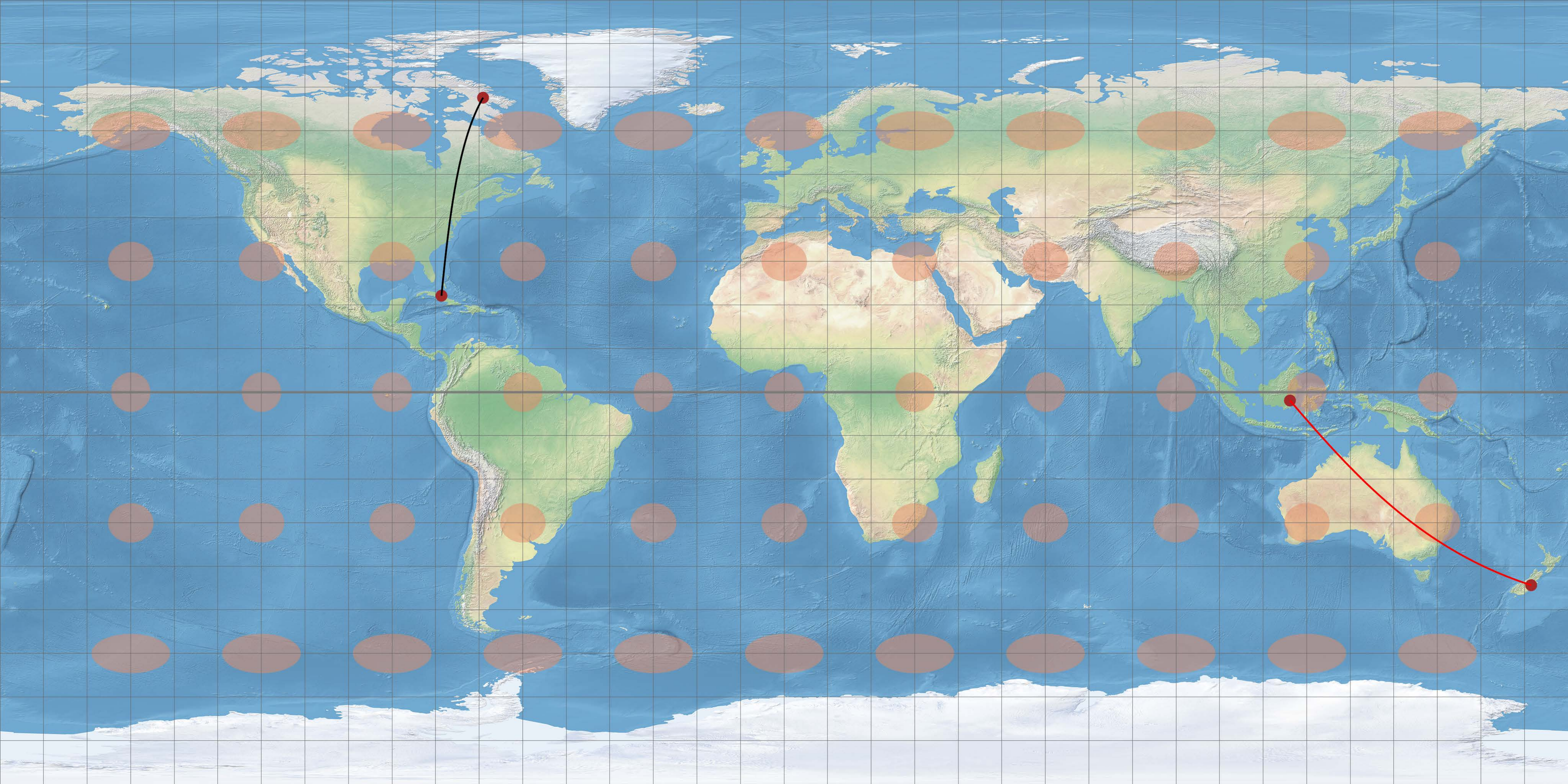


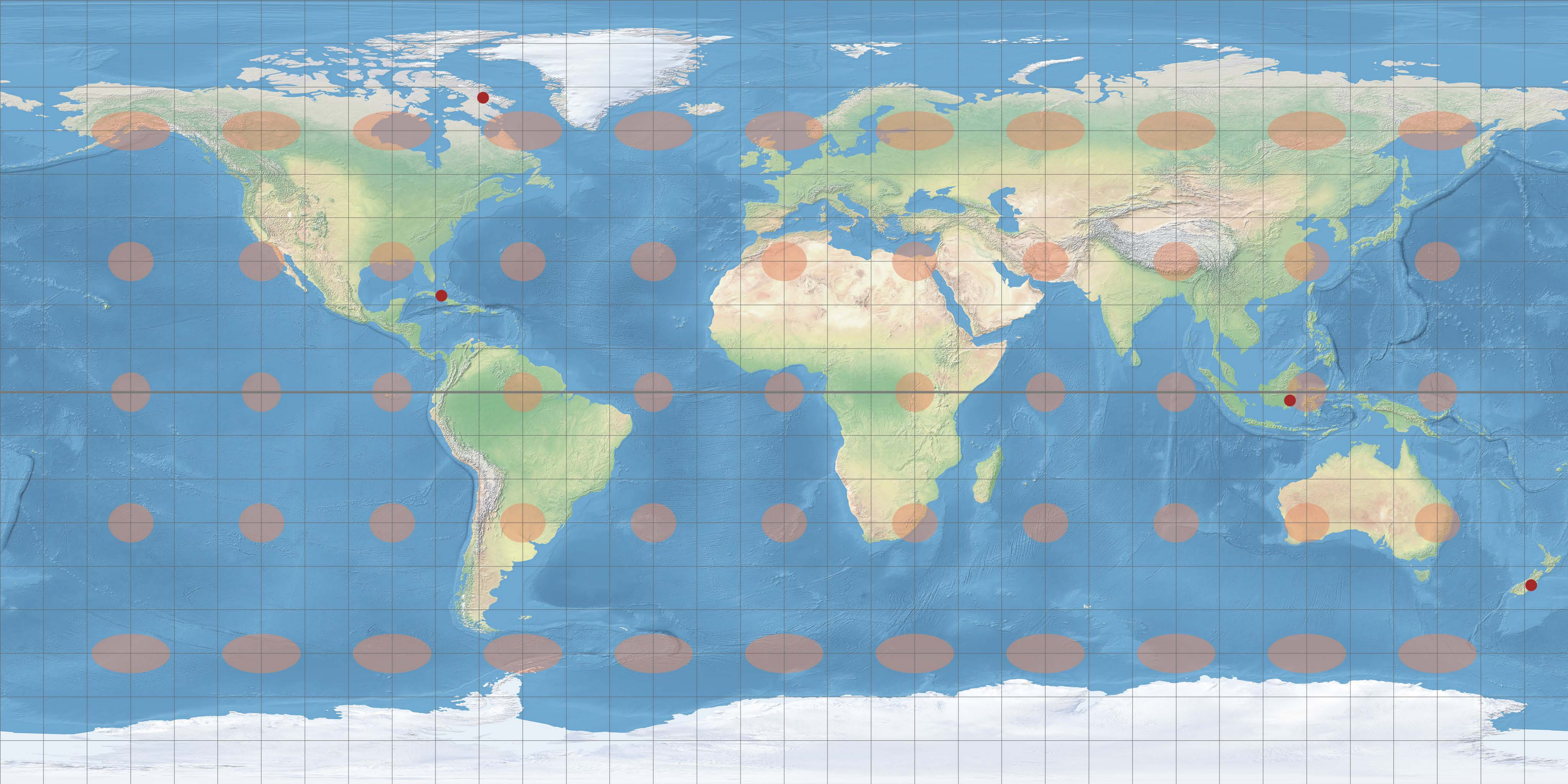


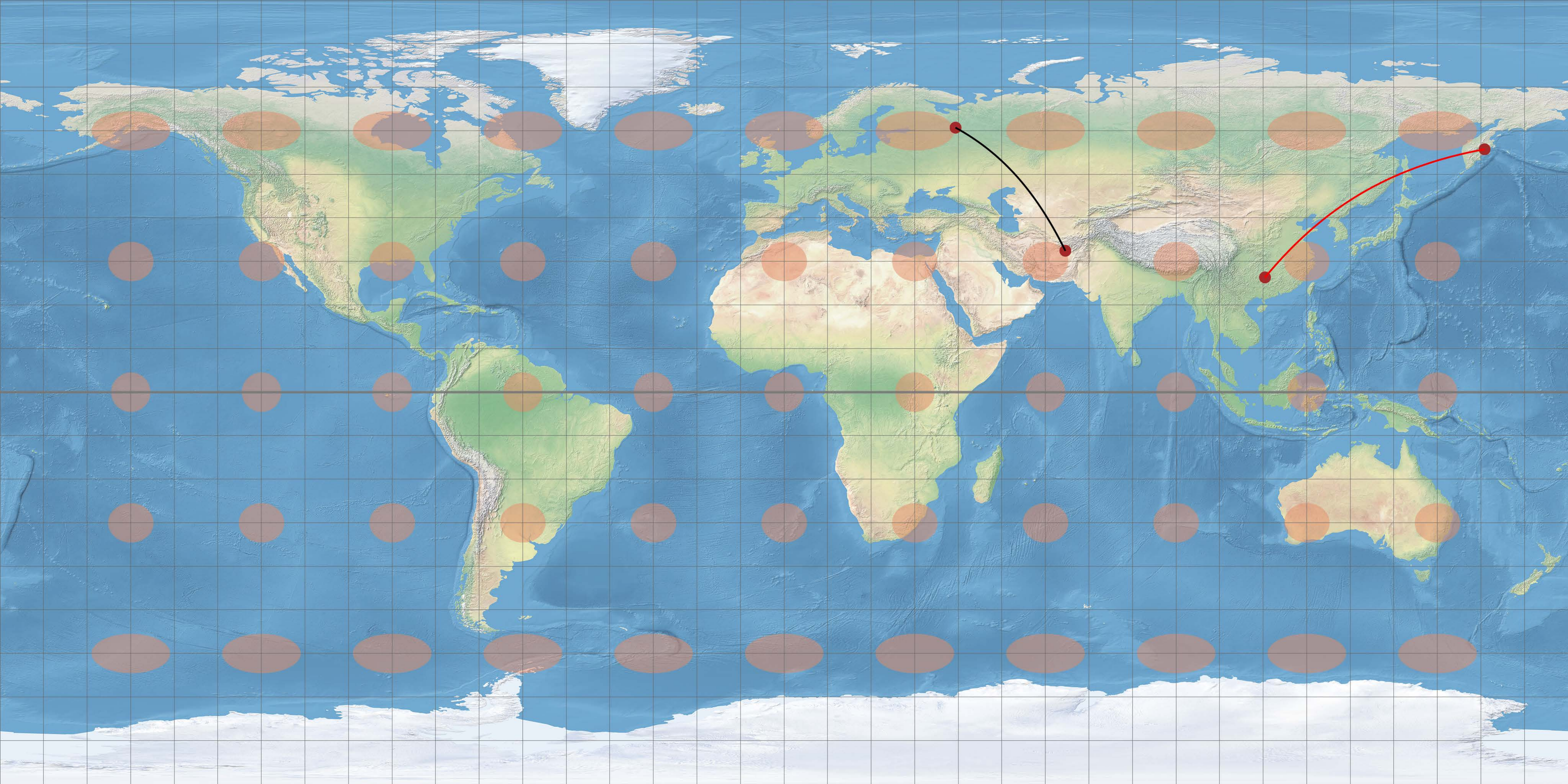


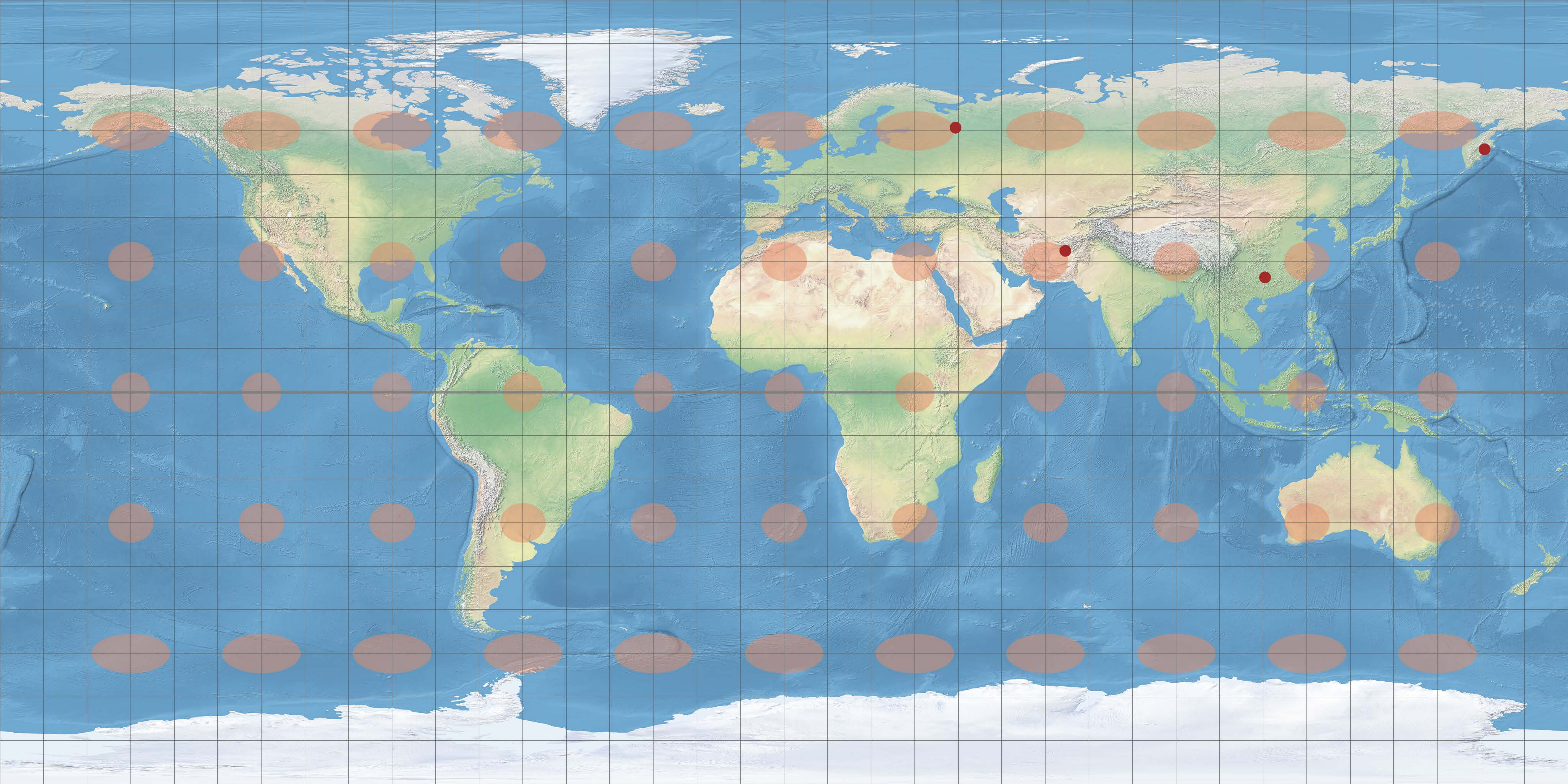


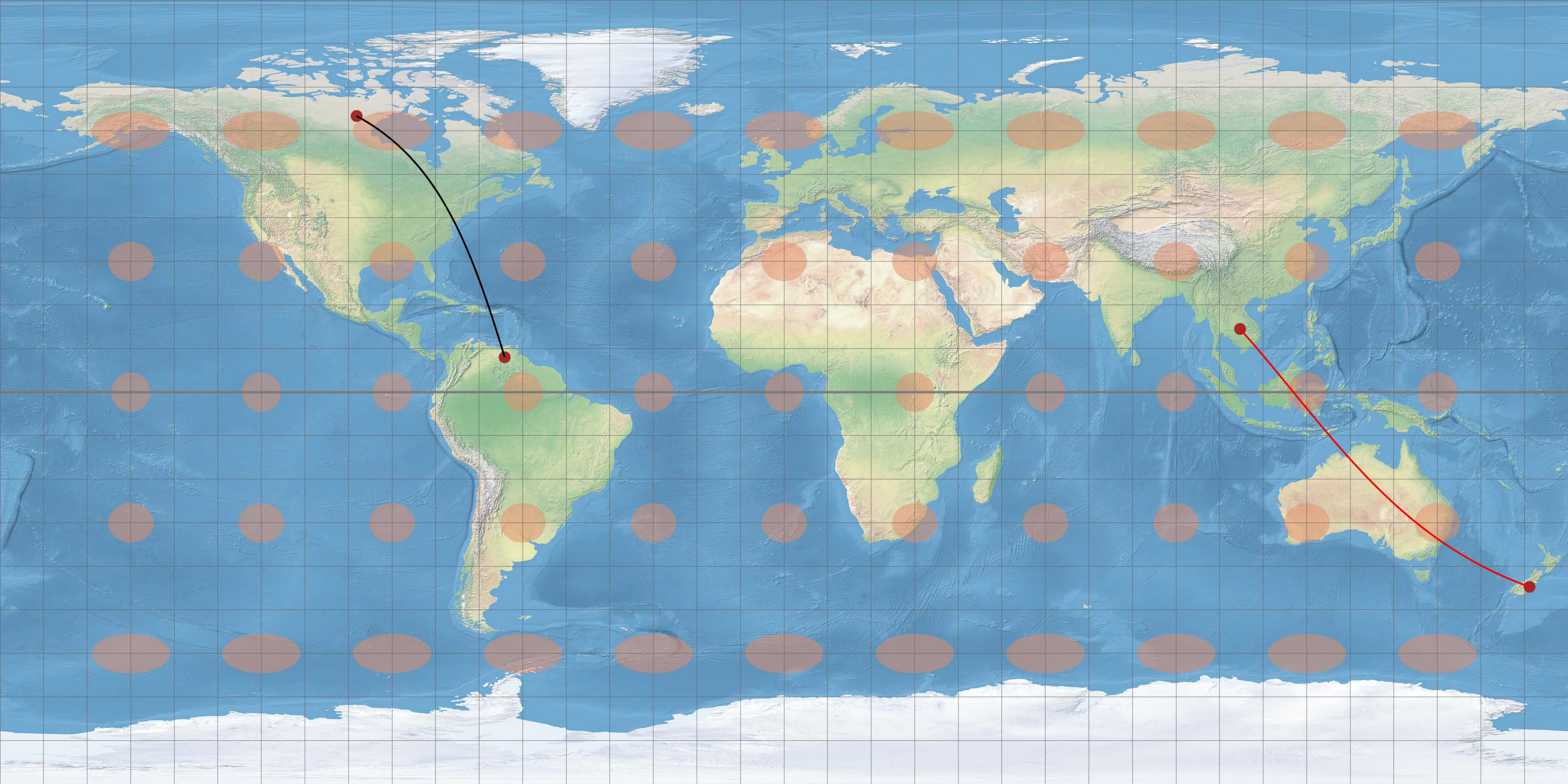


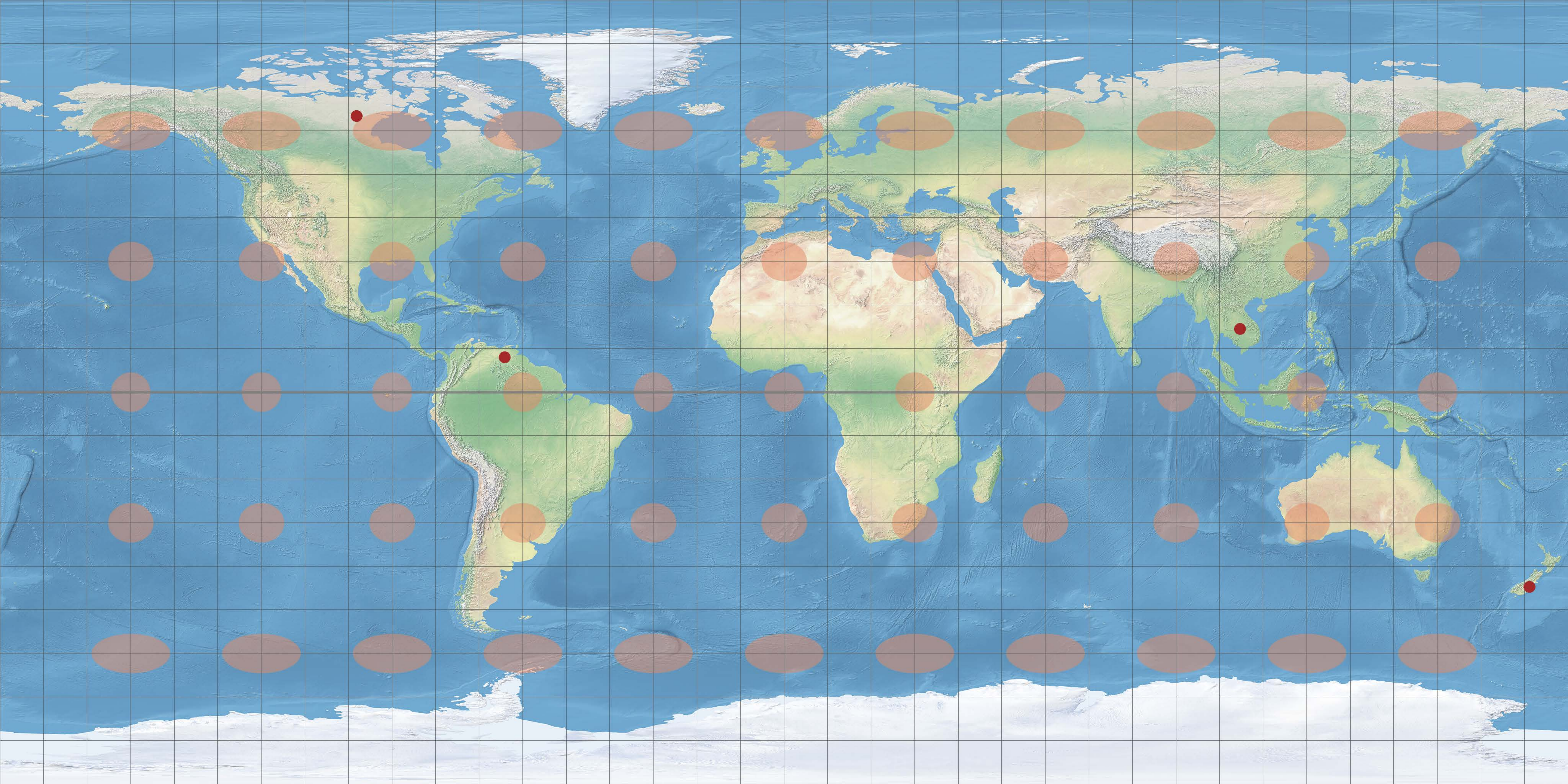




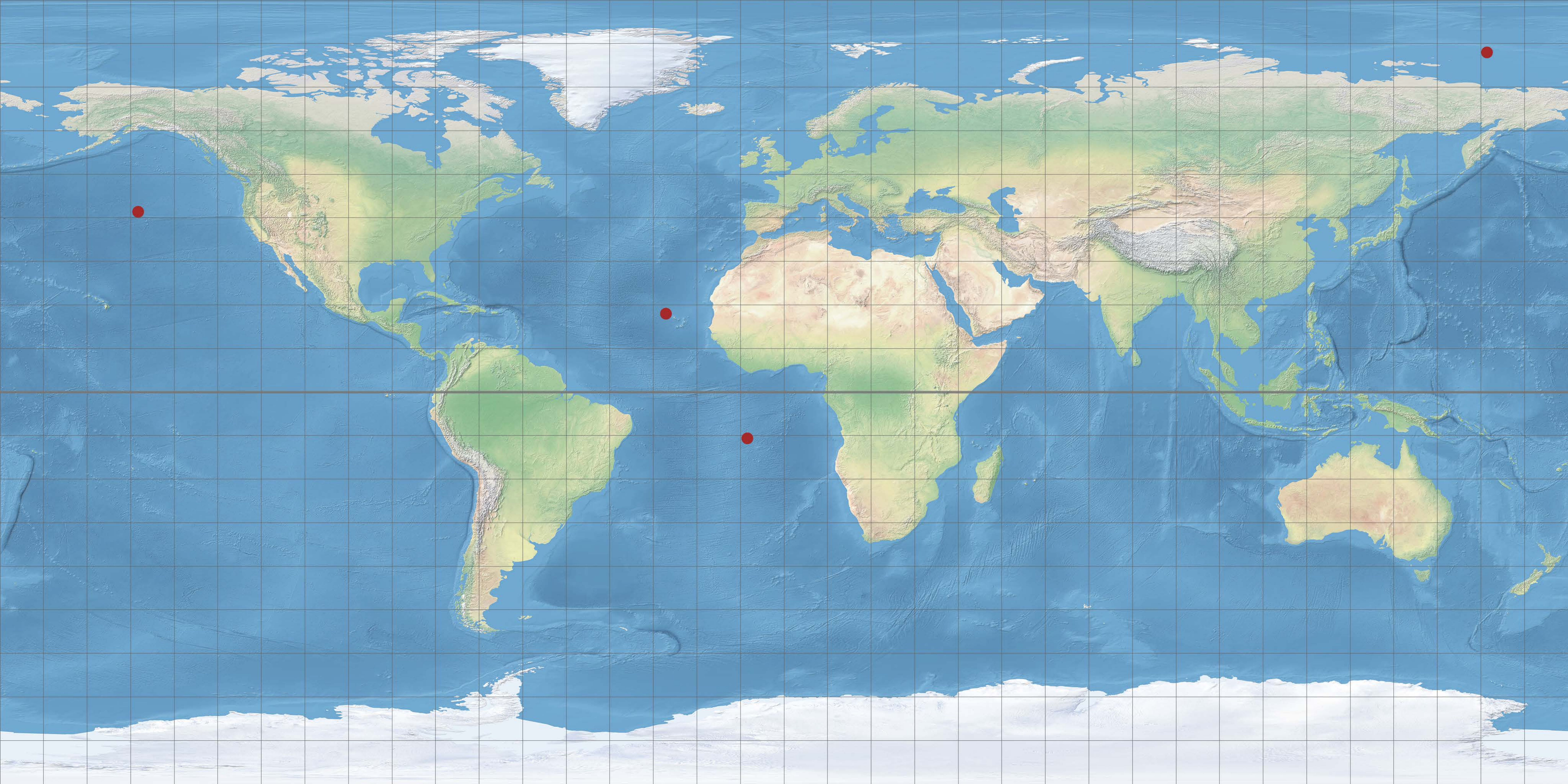


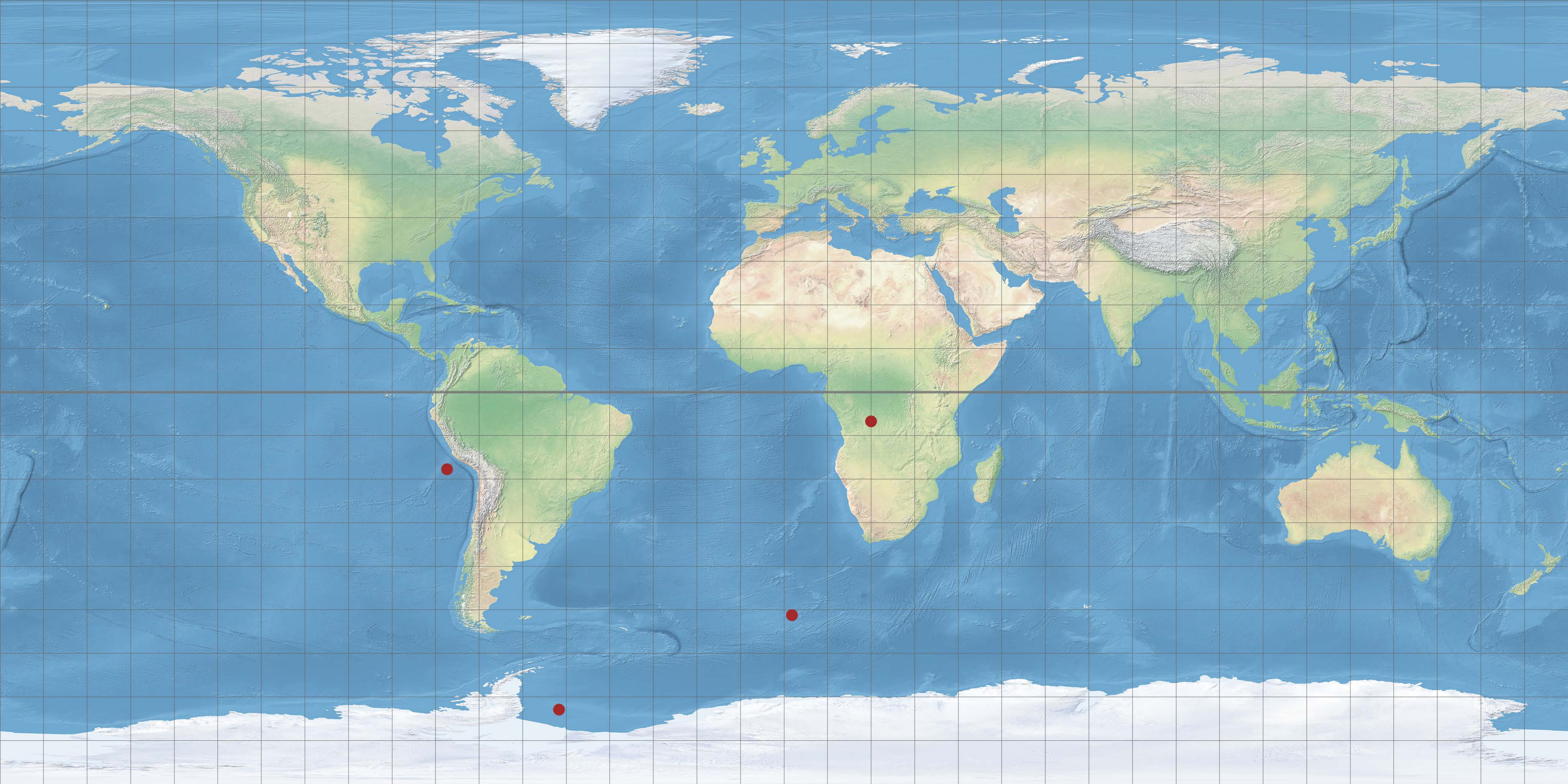


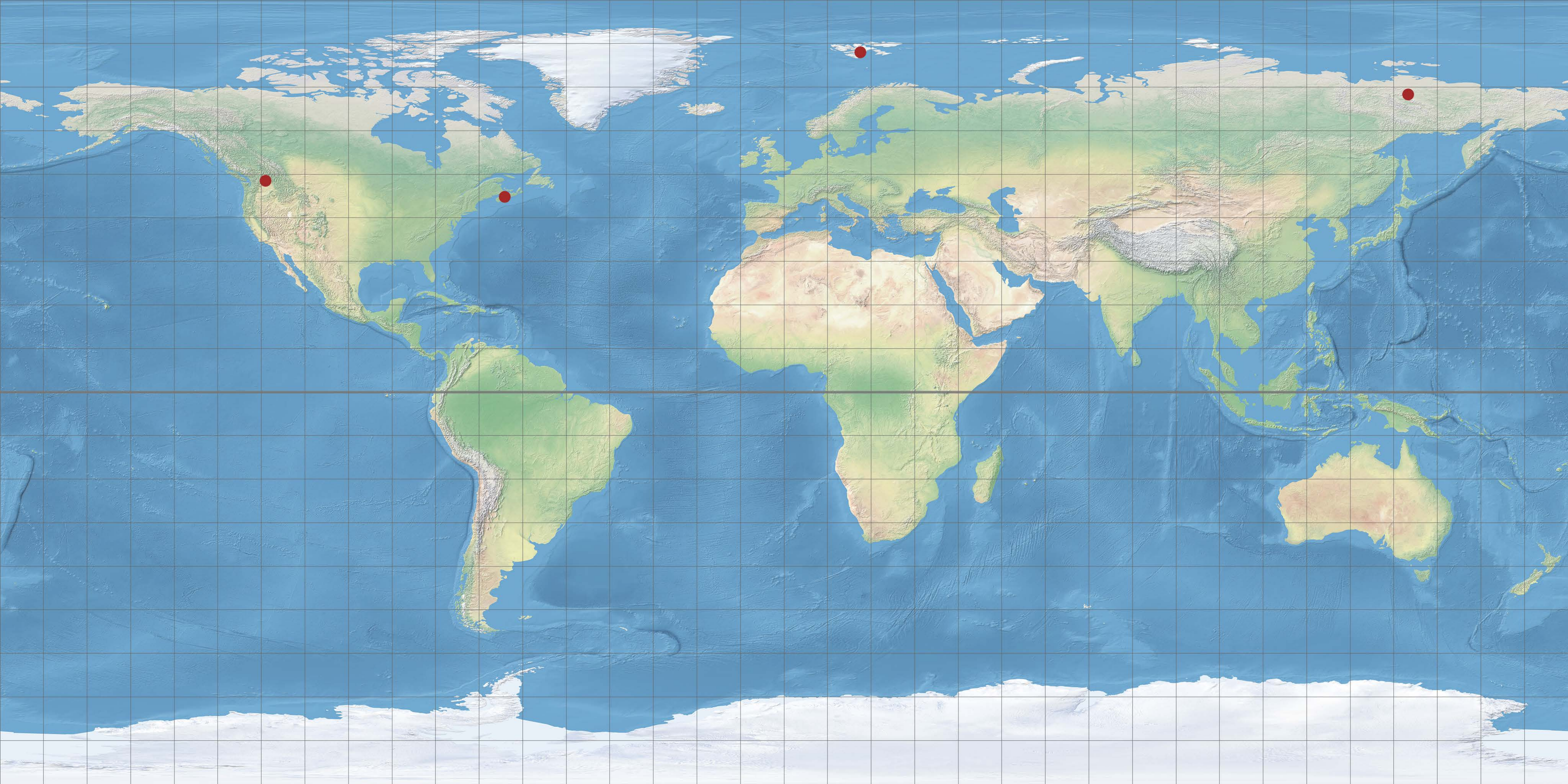


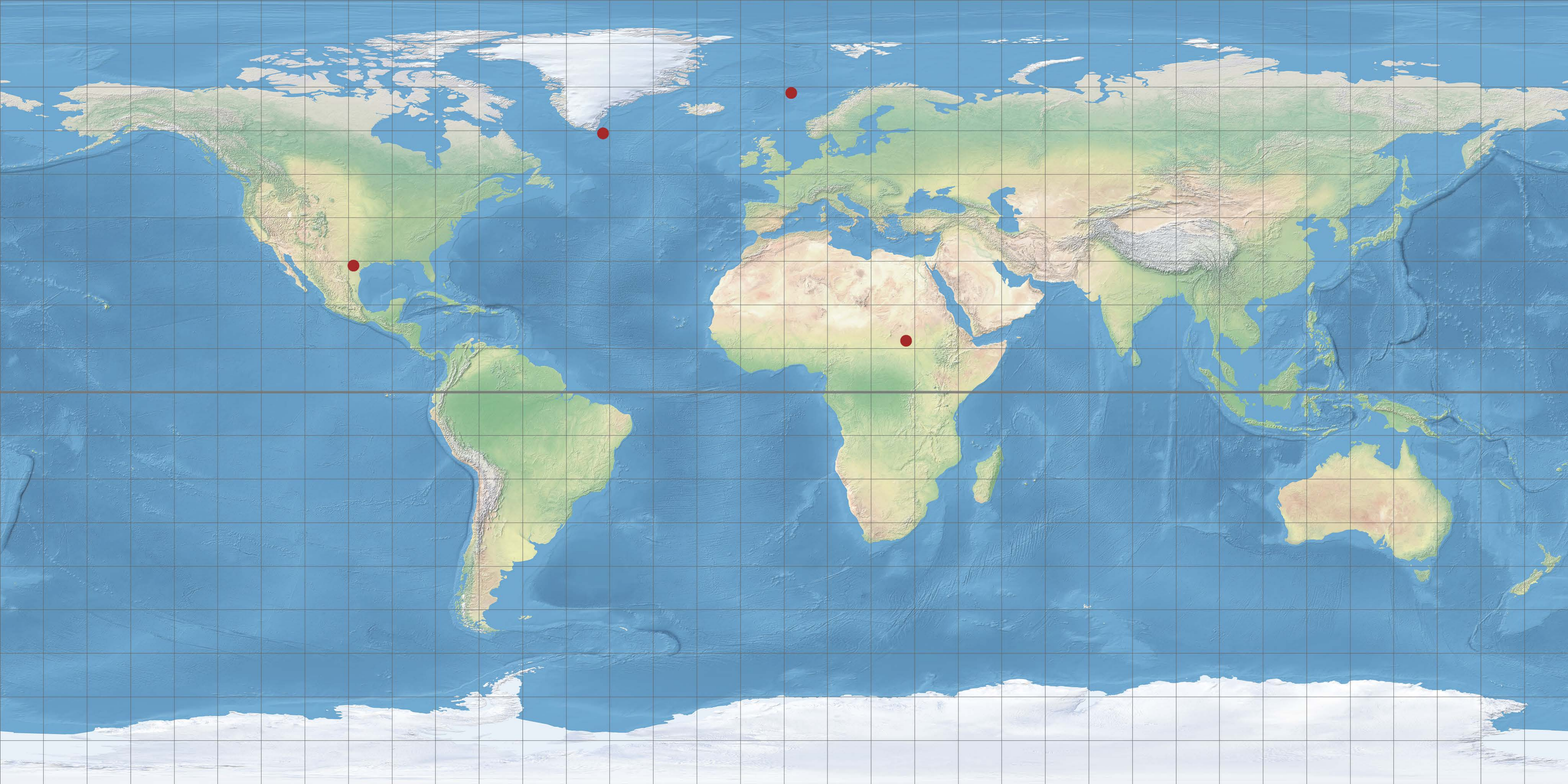


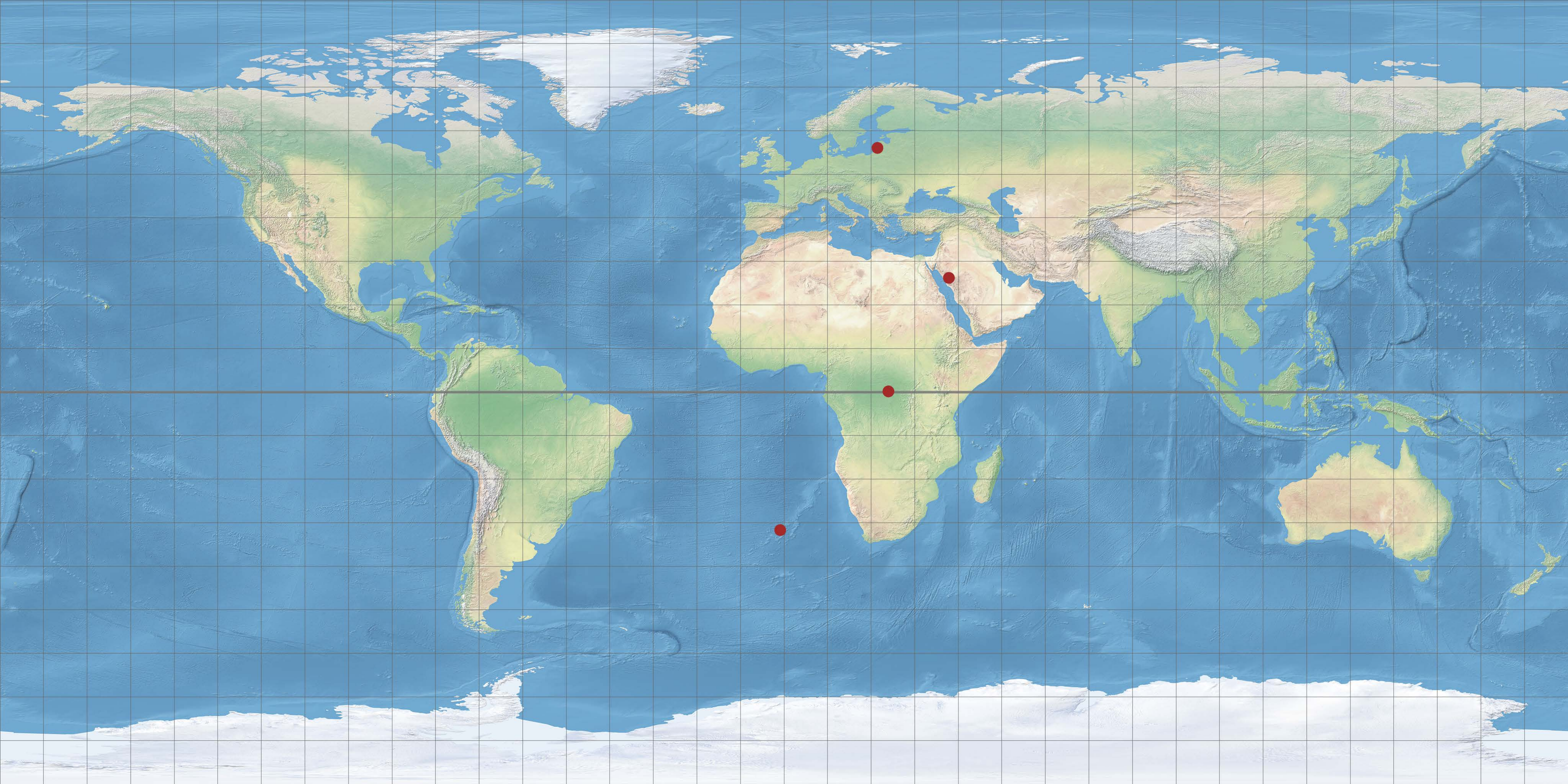
Distance comparison
Easy condition

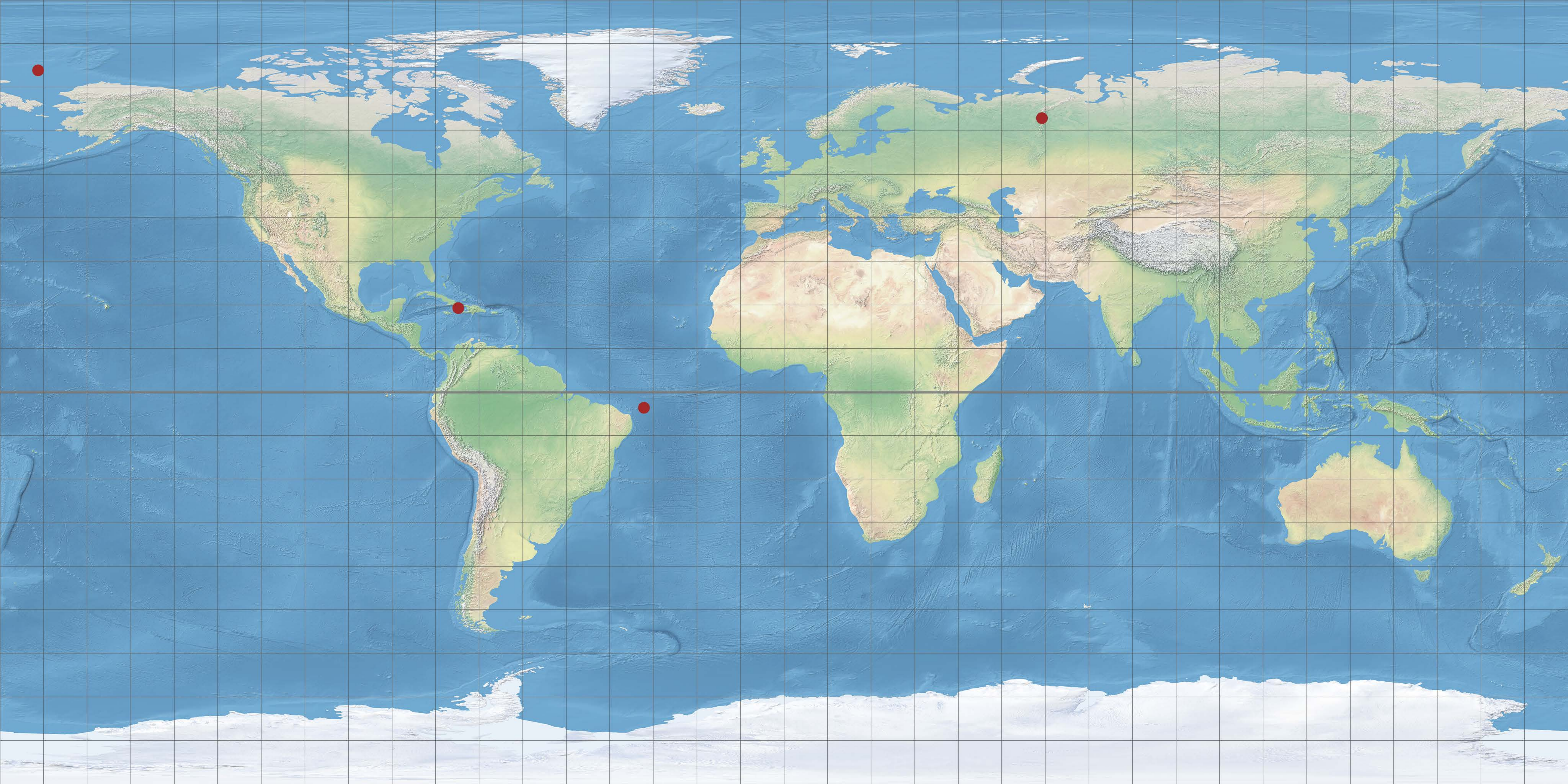


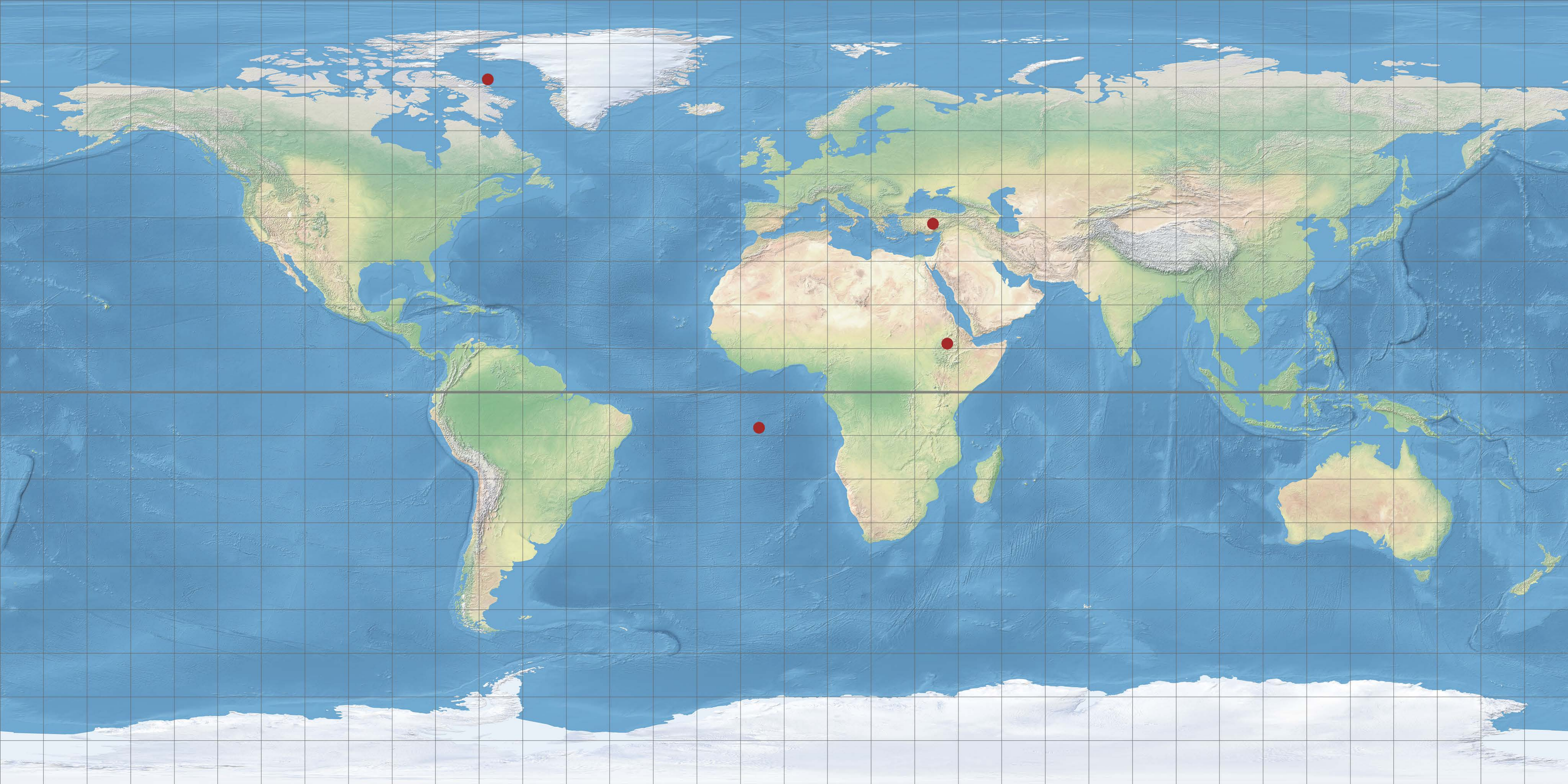


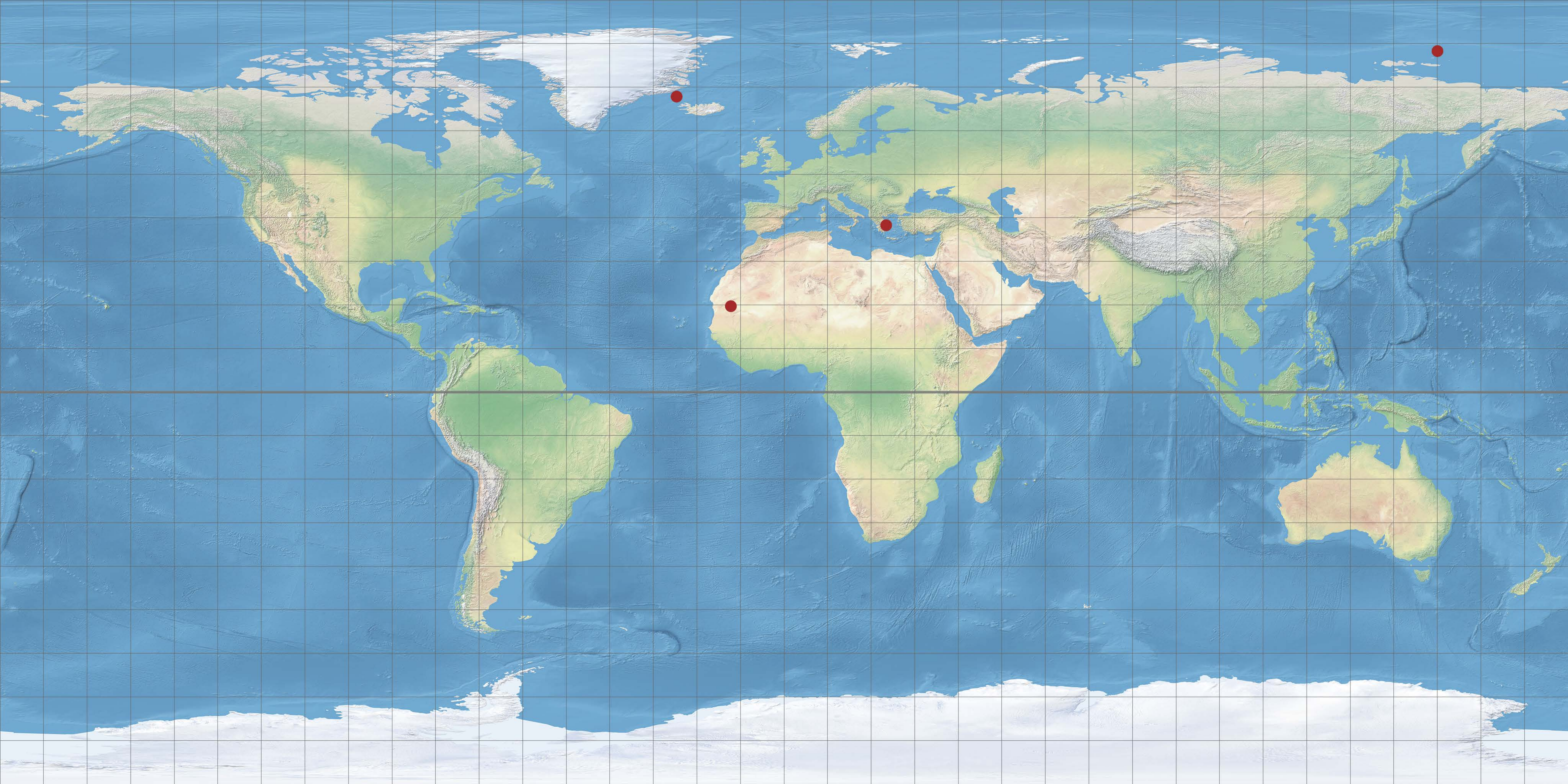


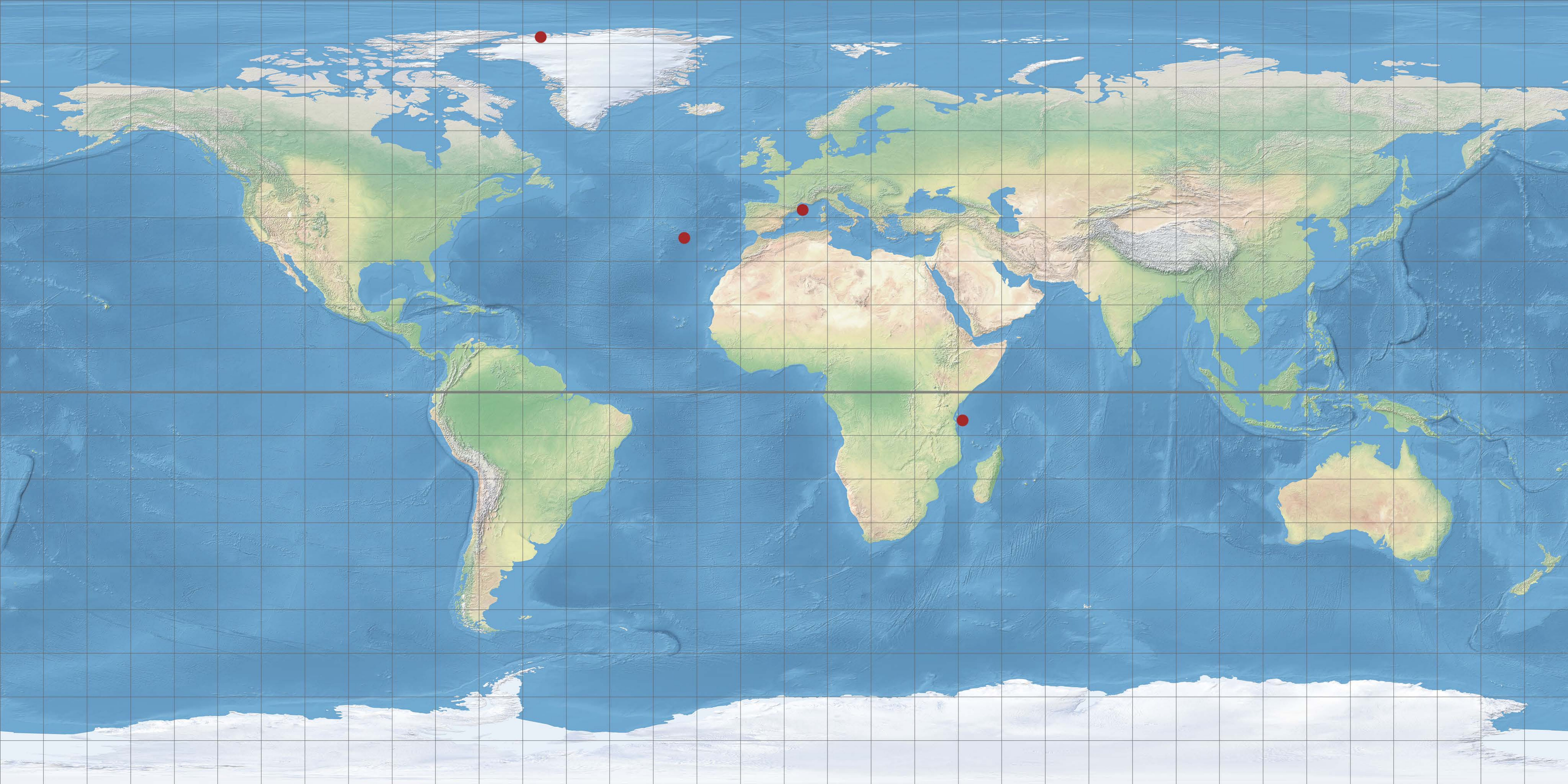


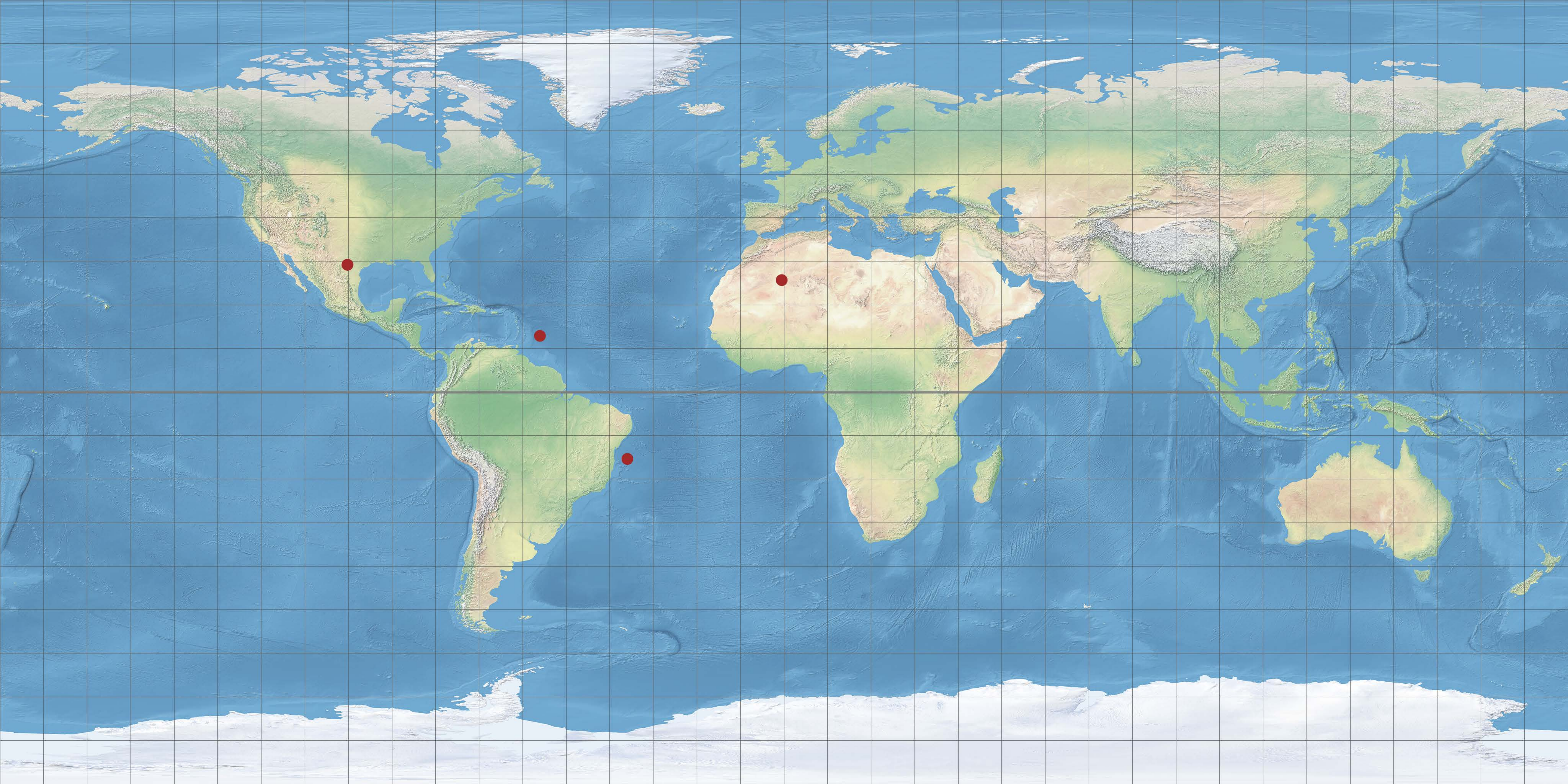


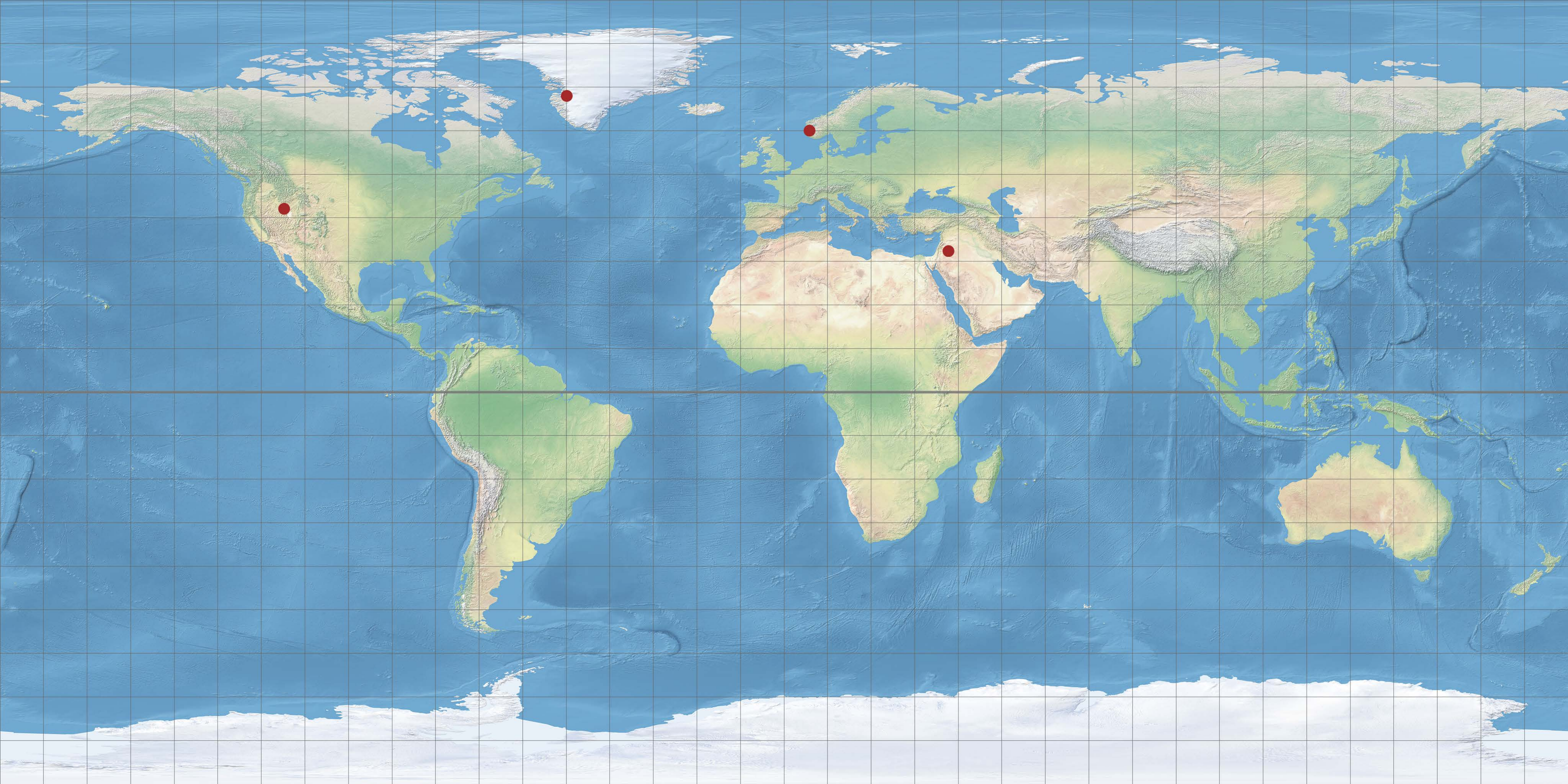


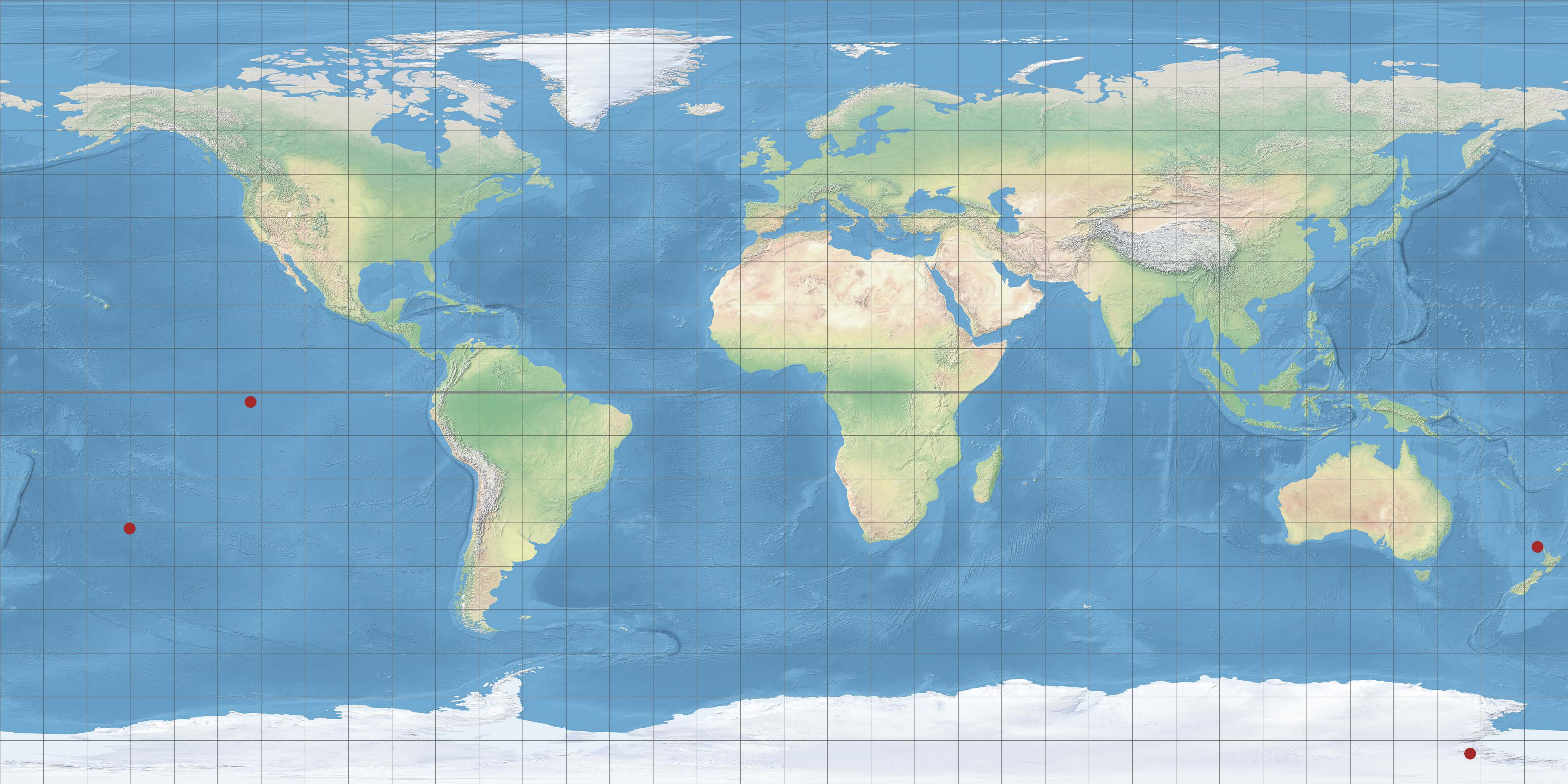




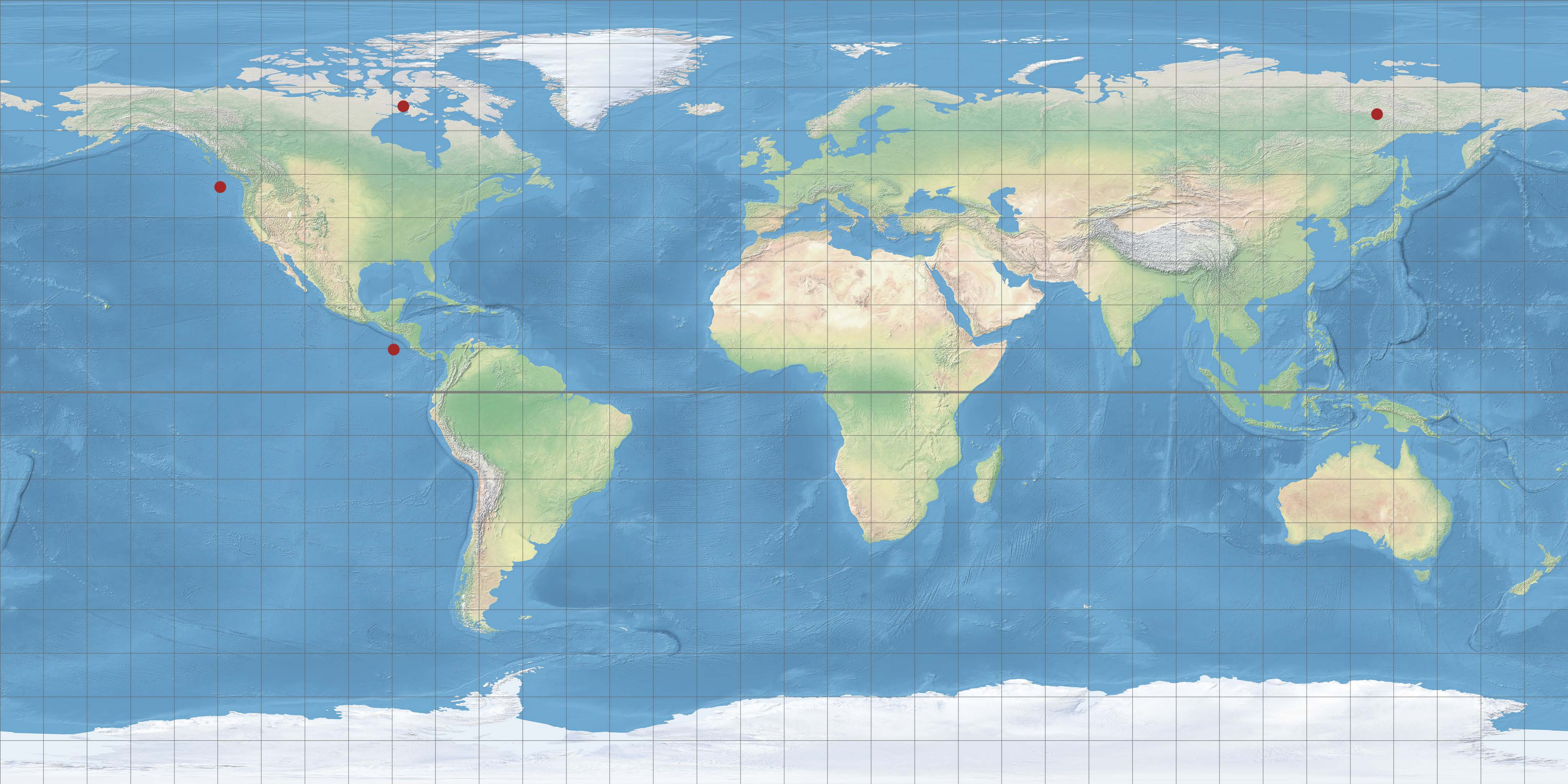


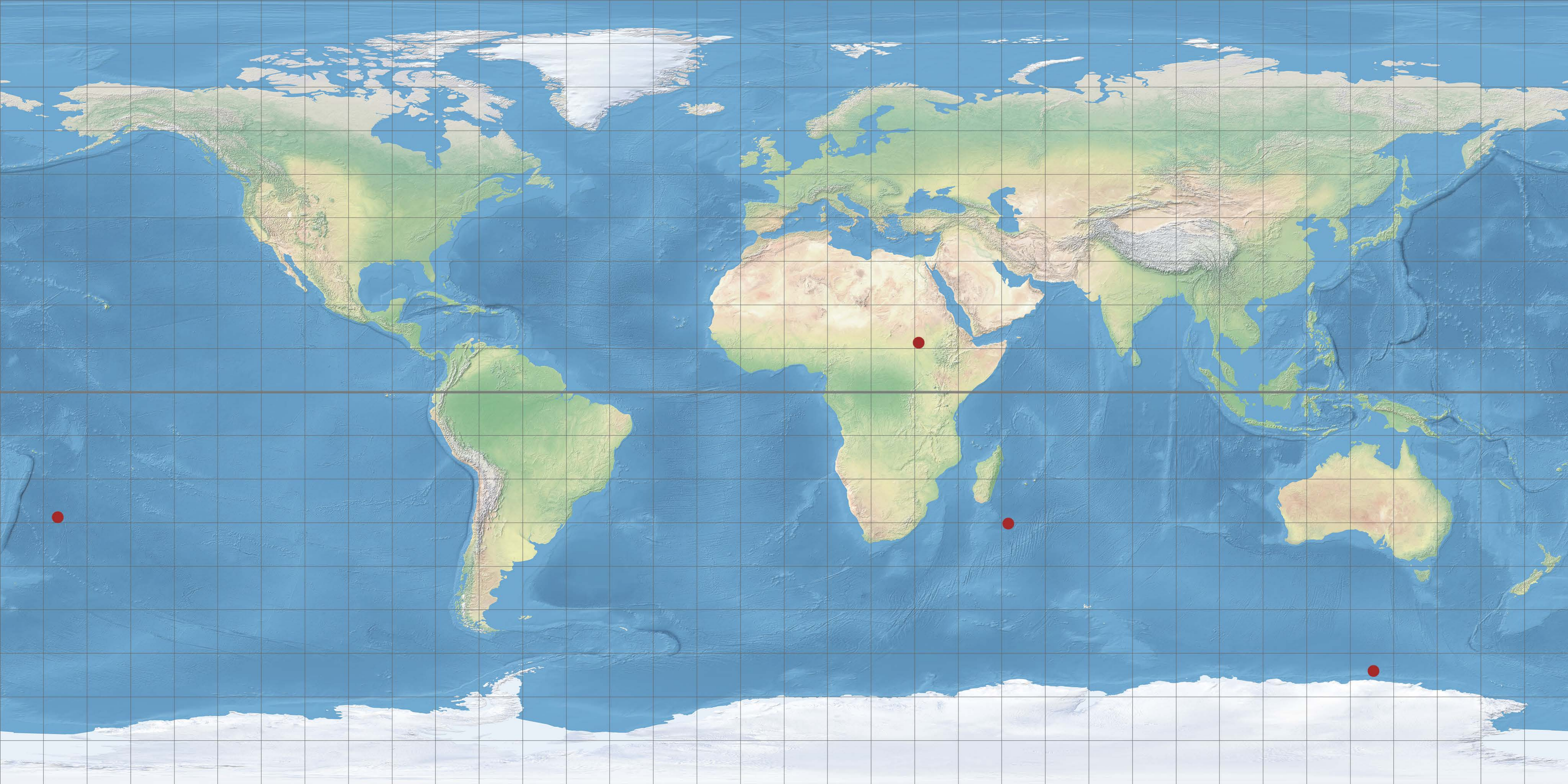


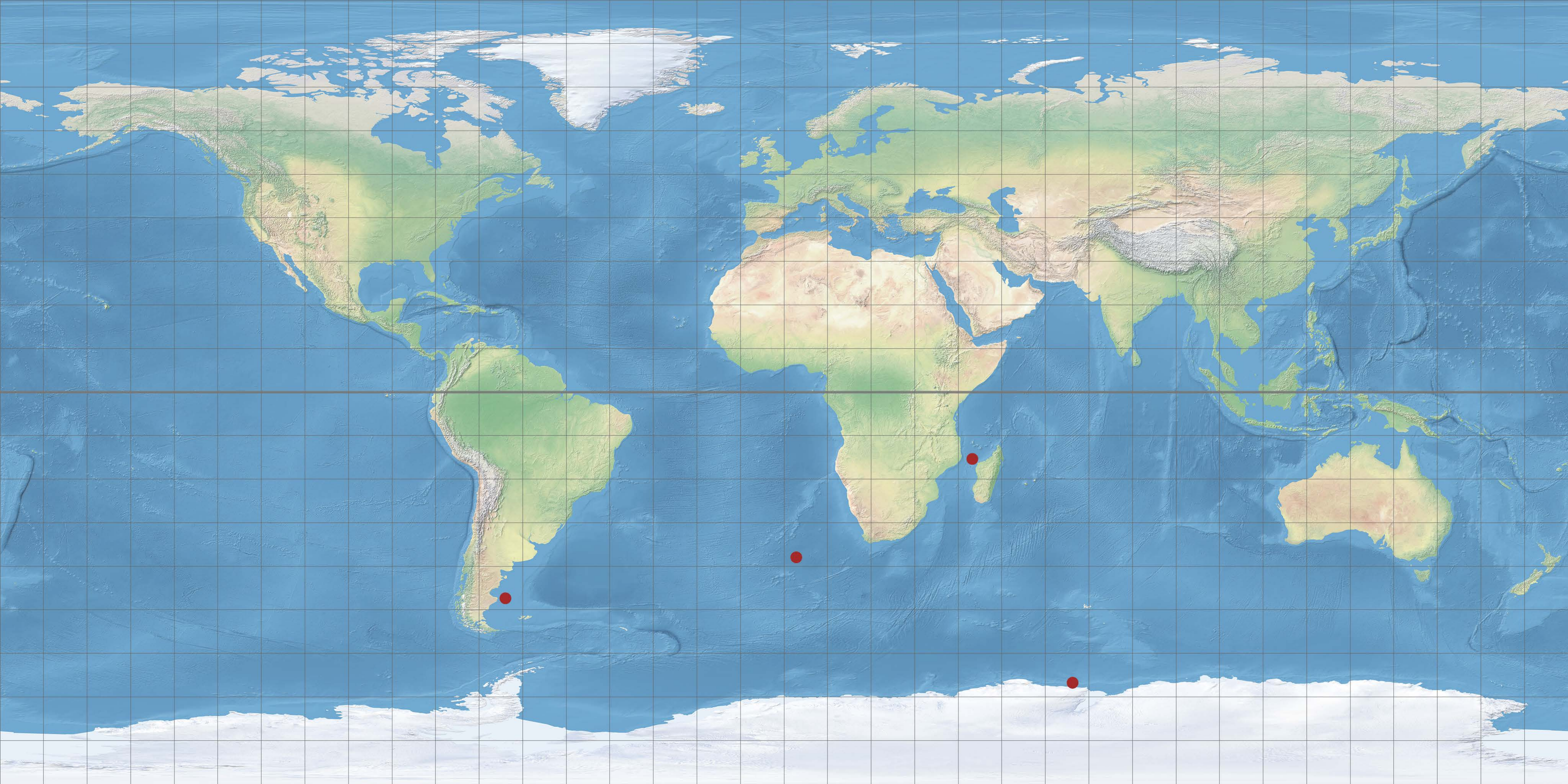


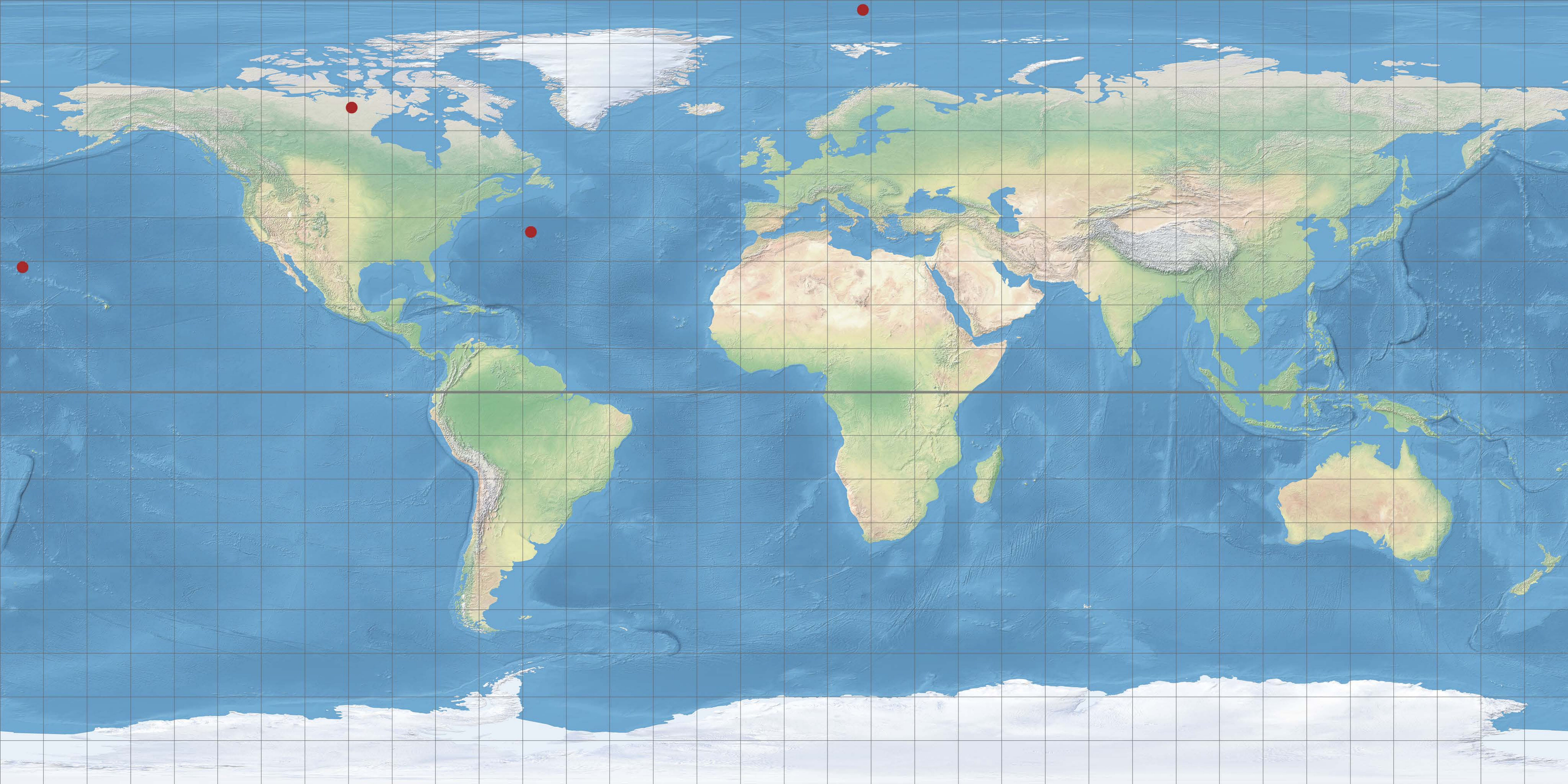


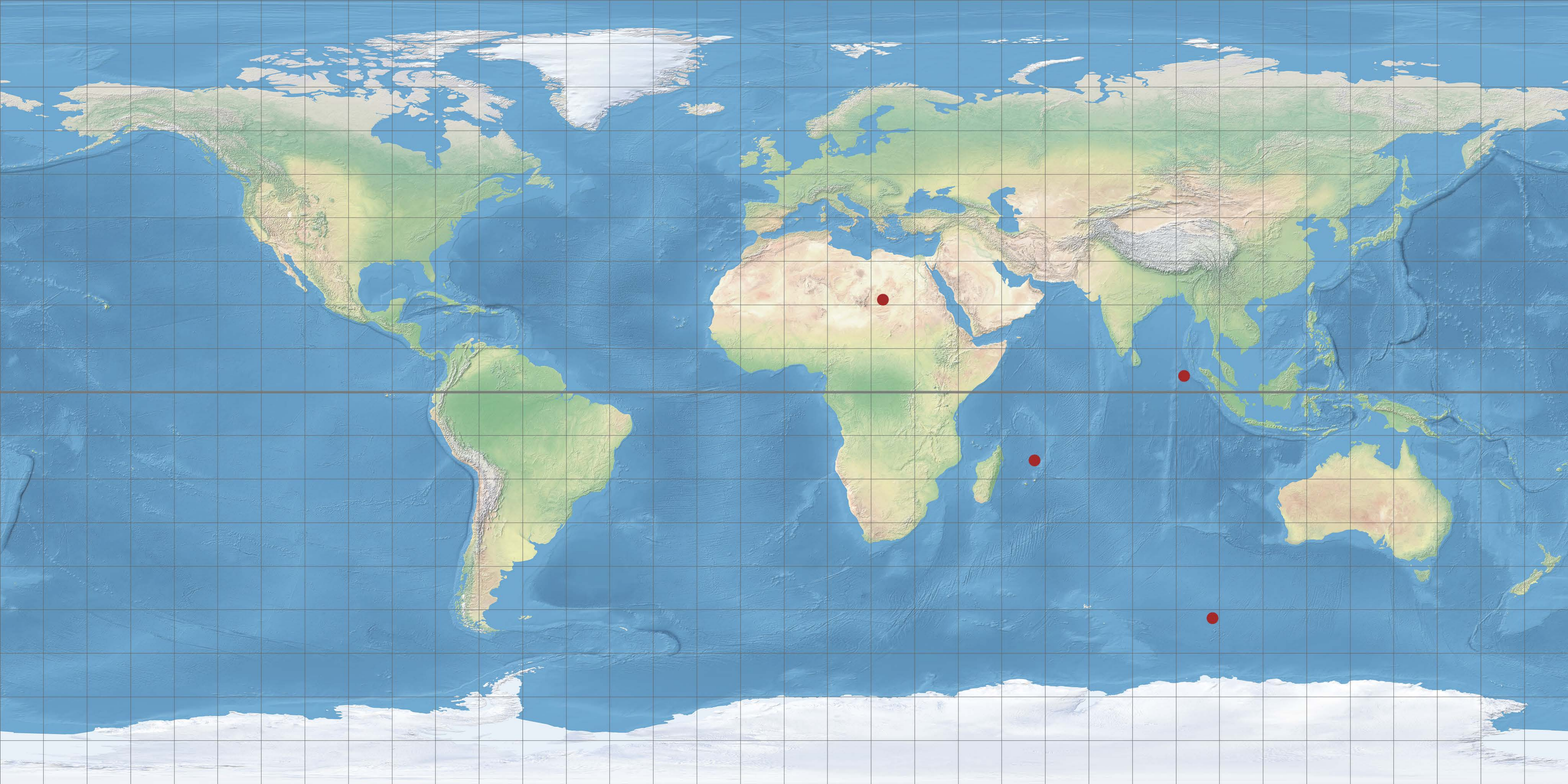
Distance comparison
Small variation condition

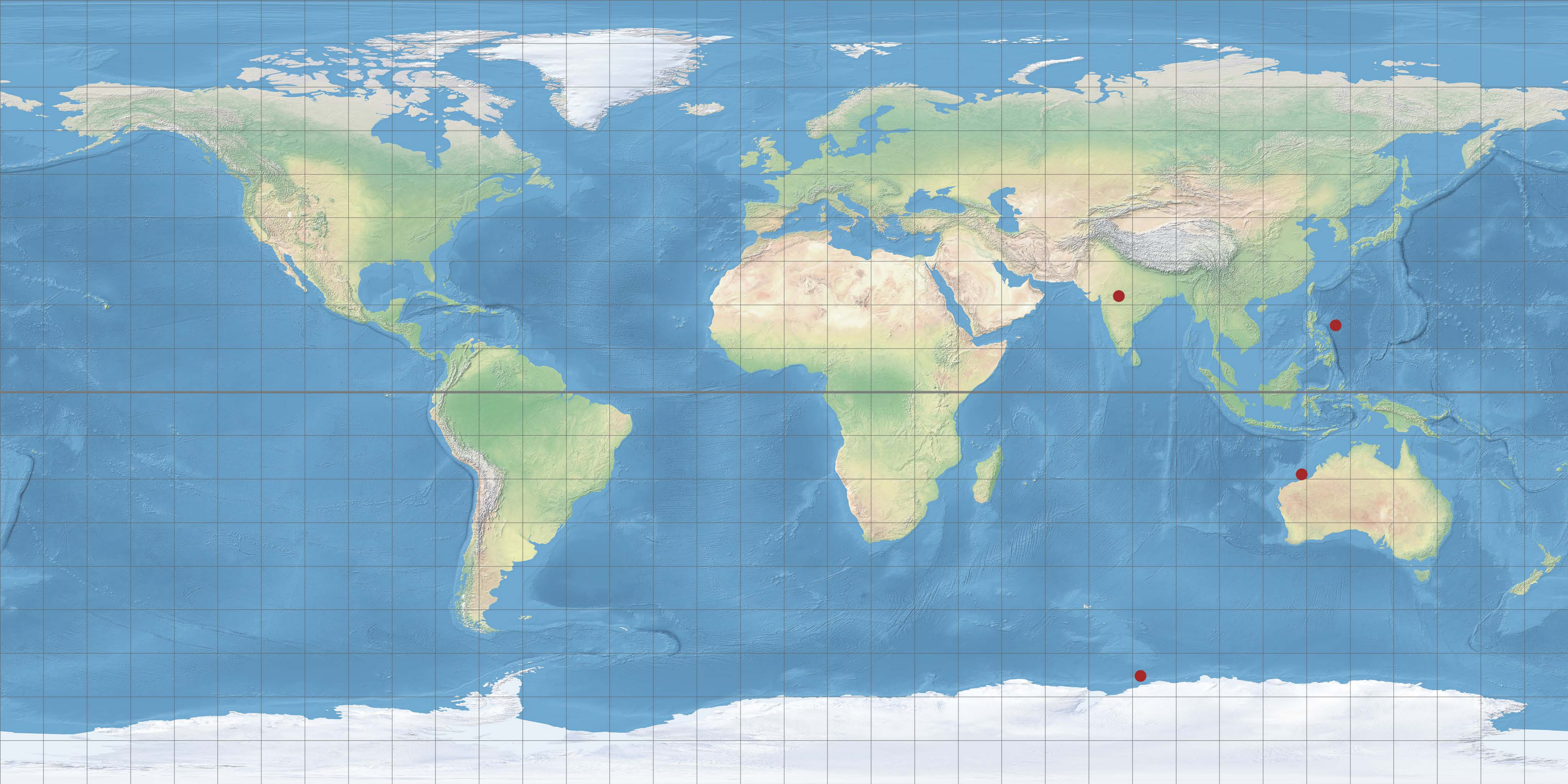


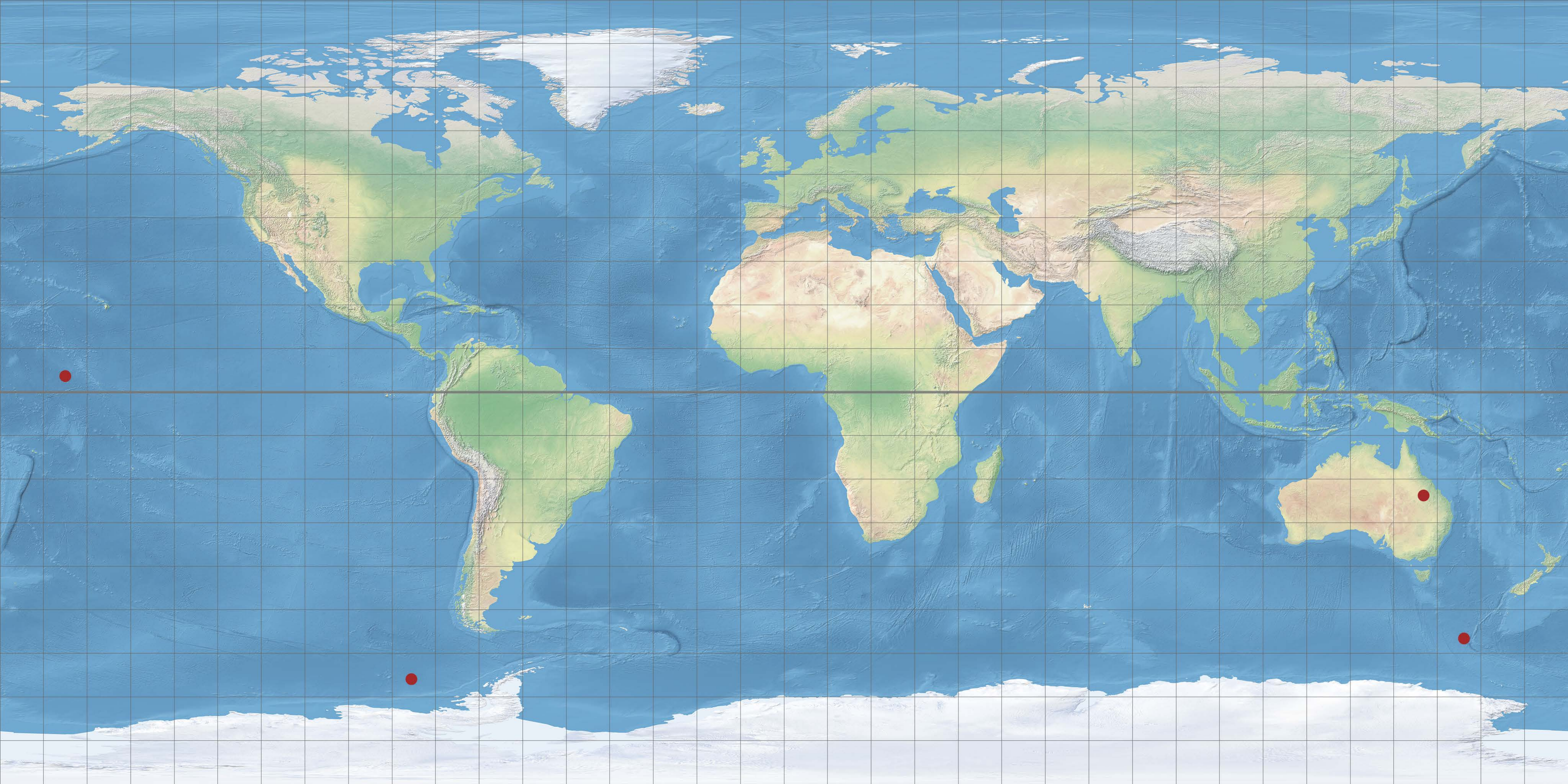


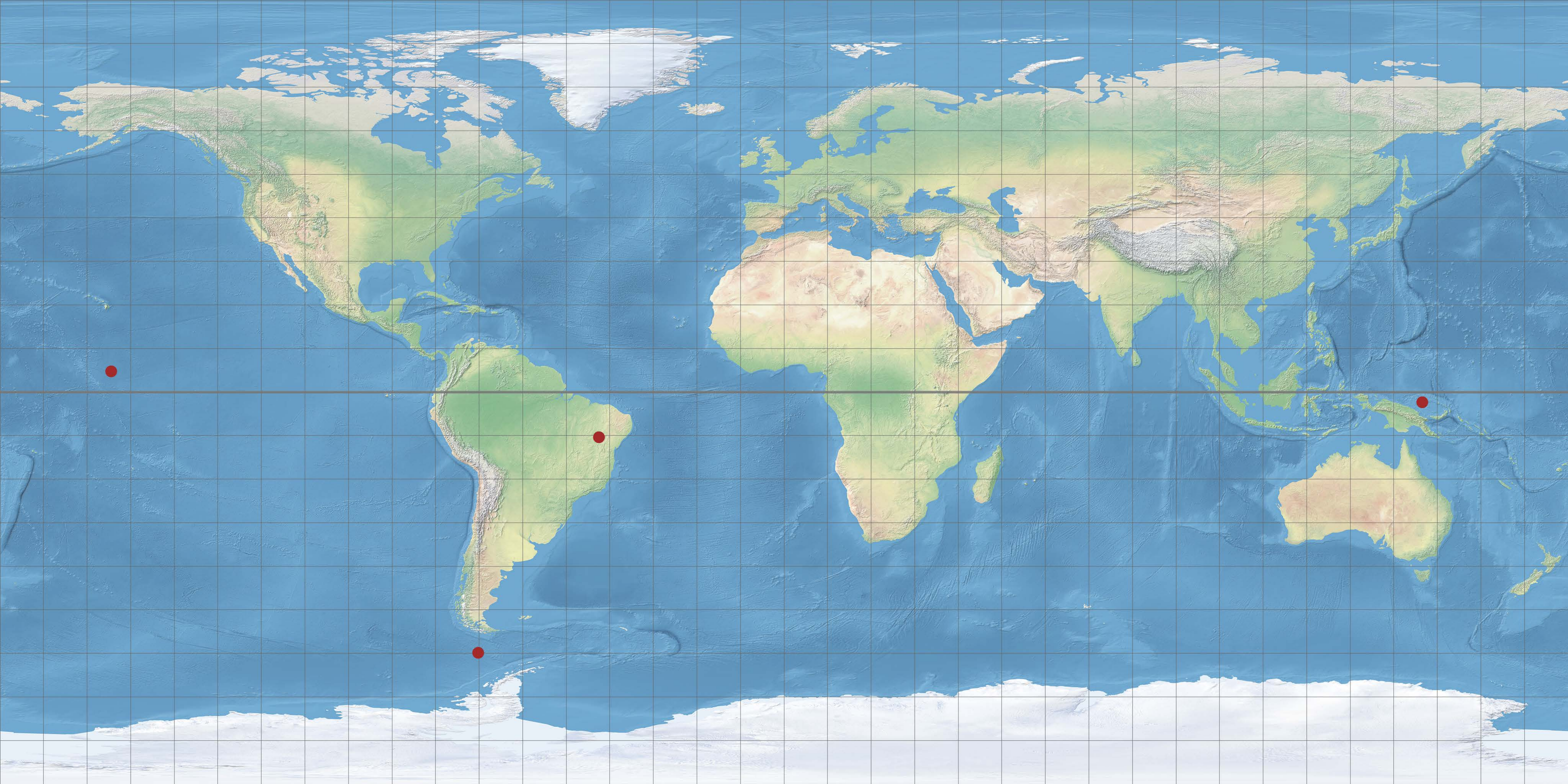


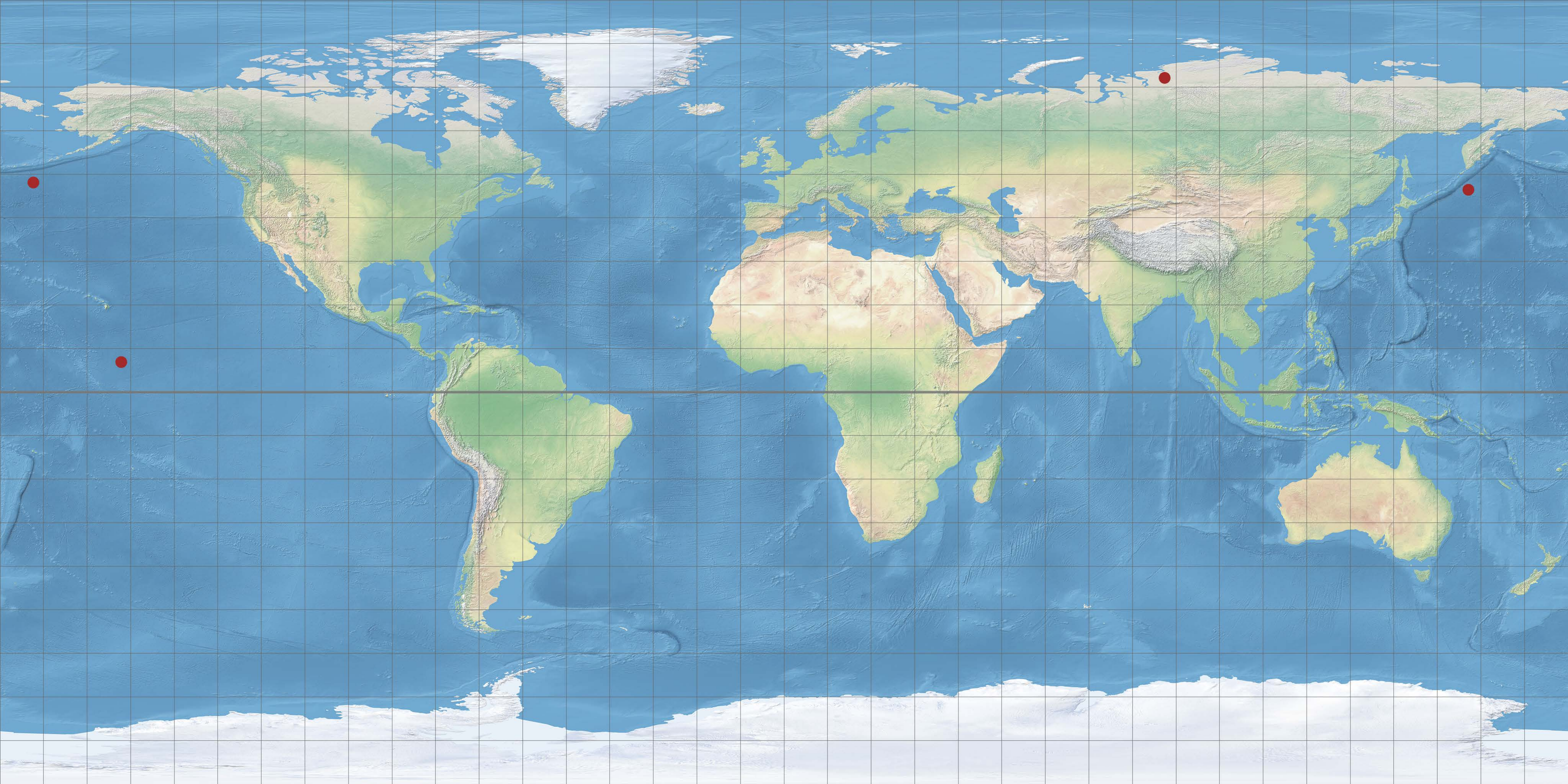


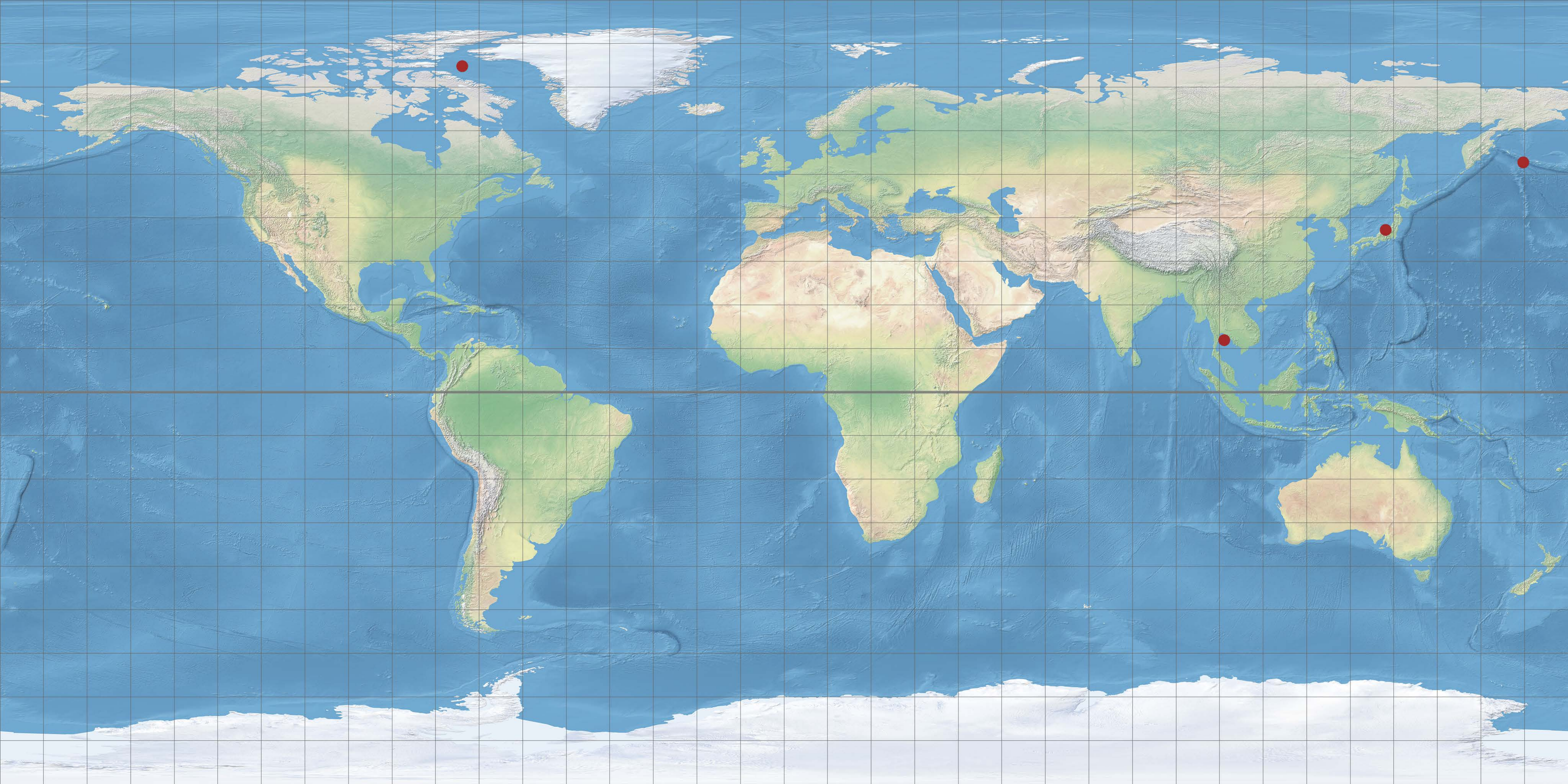


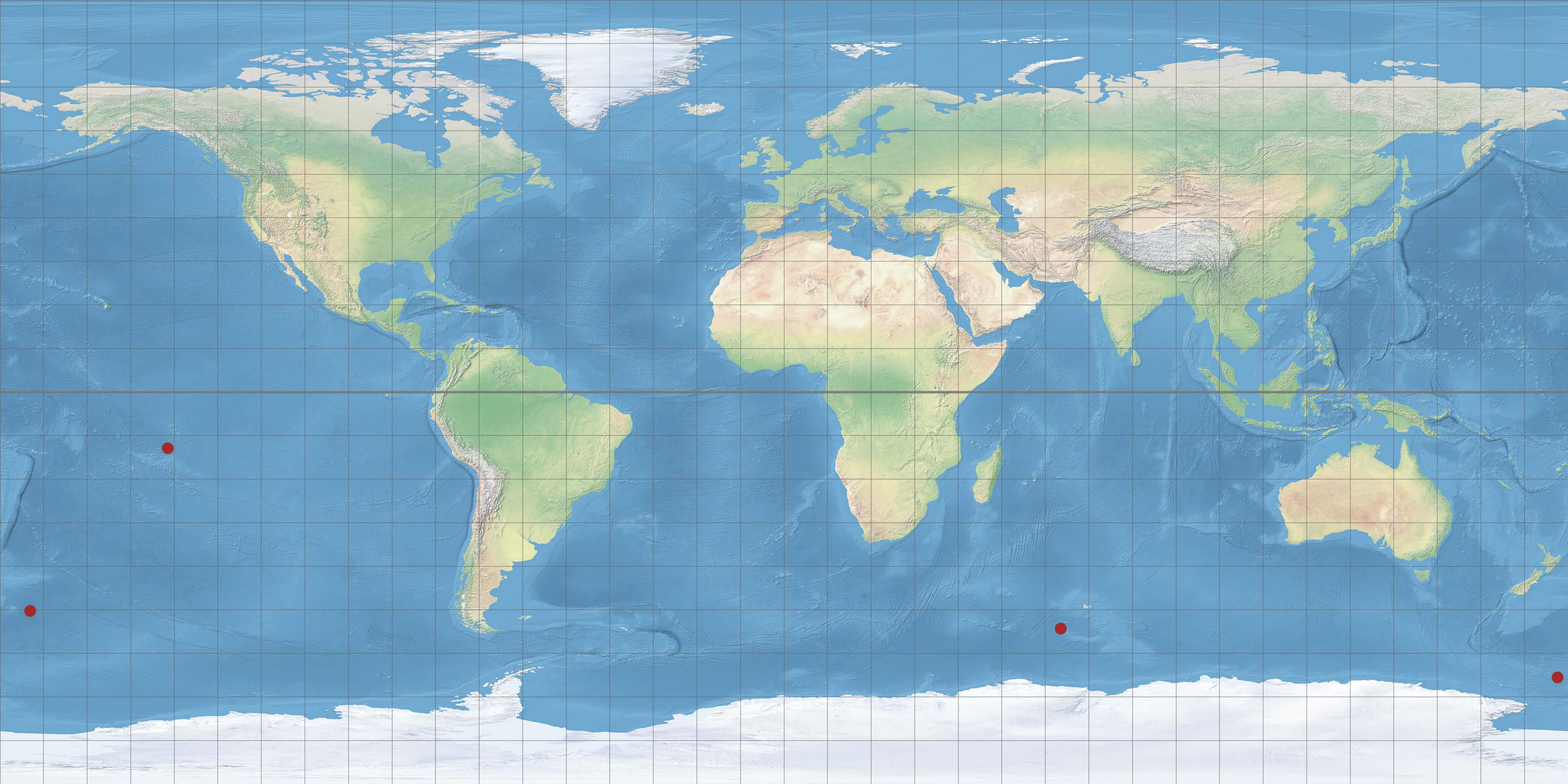


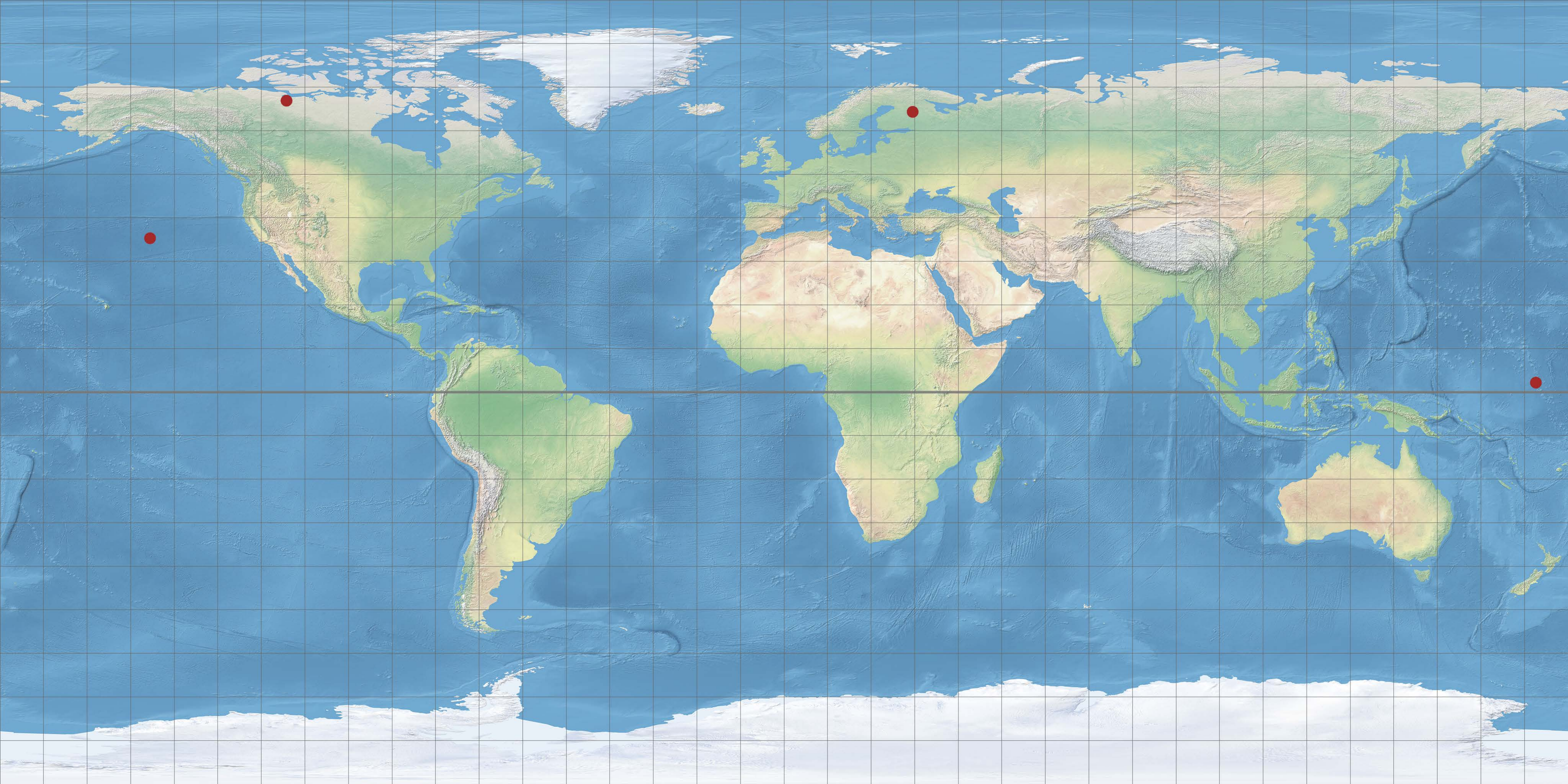




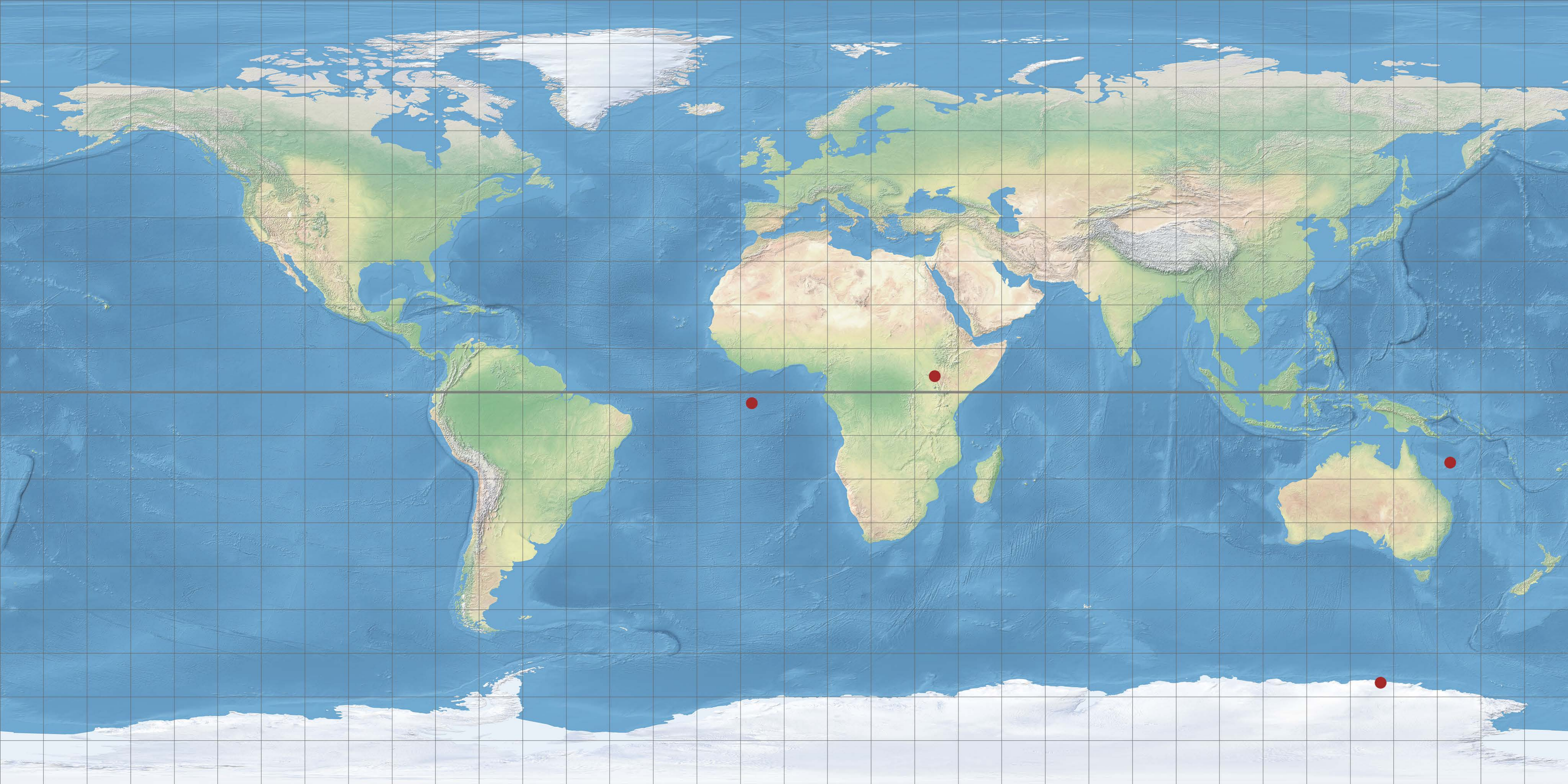


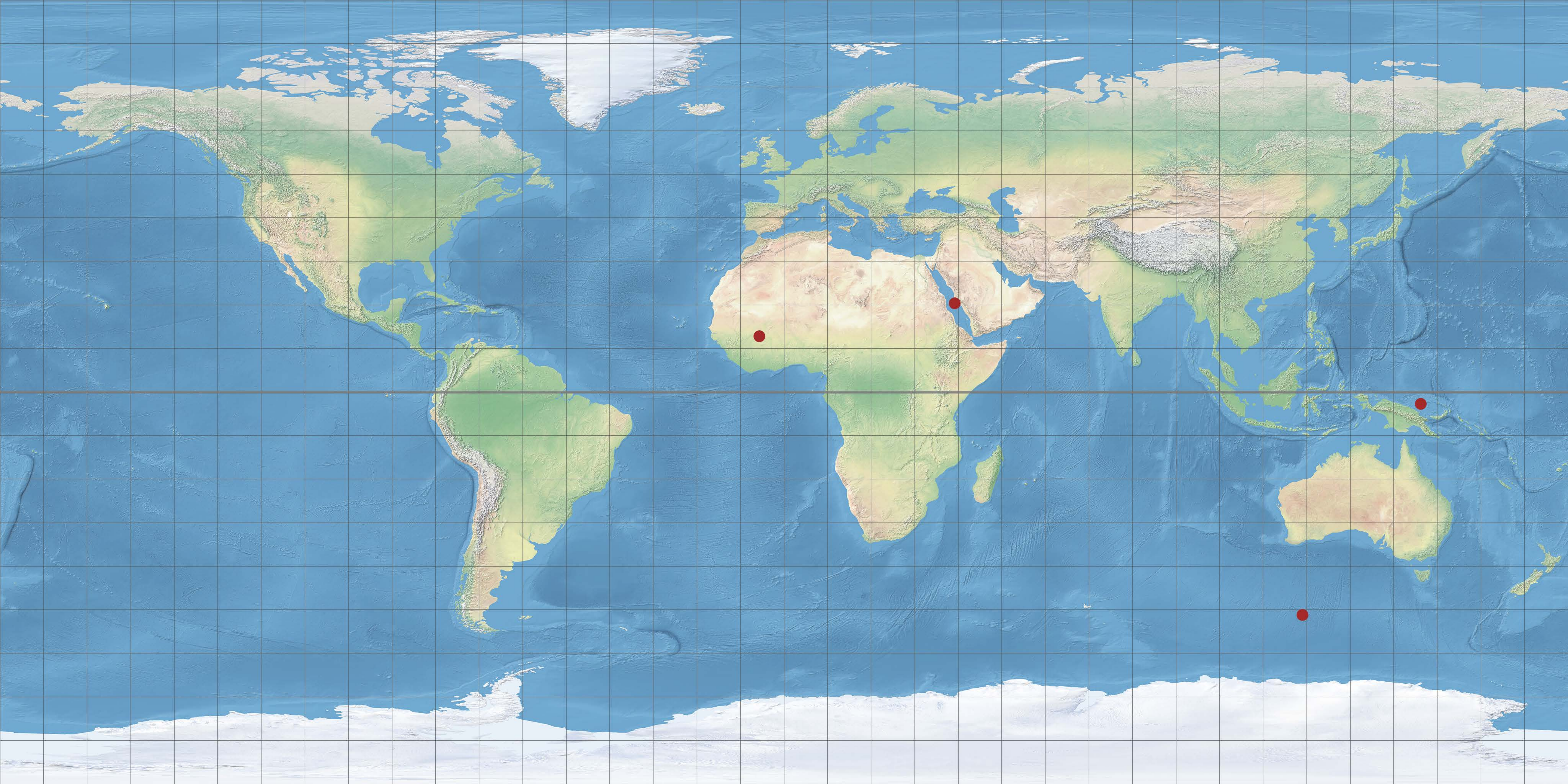


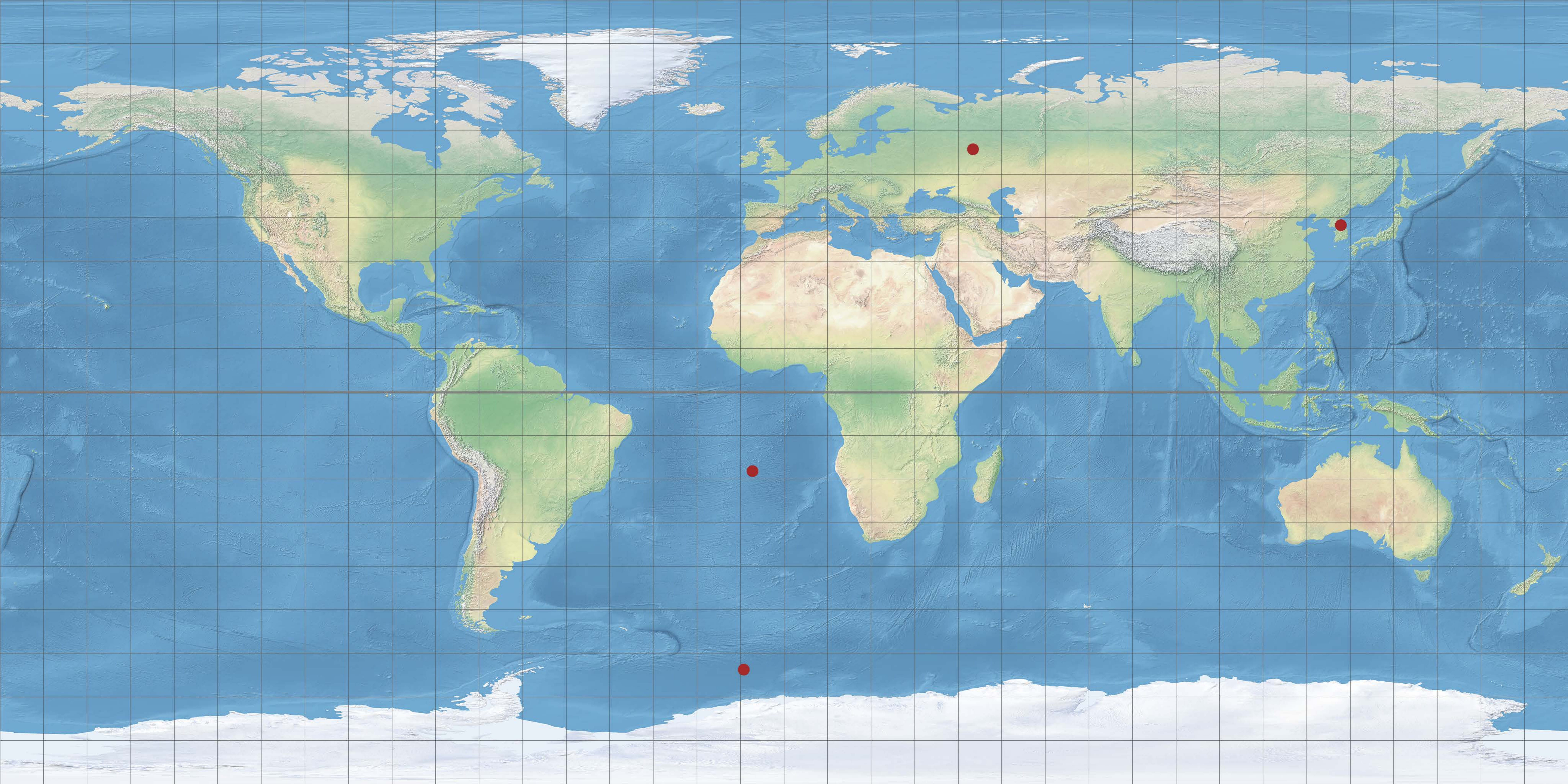


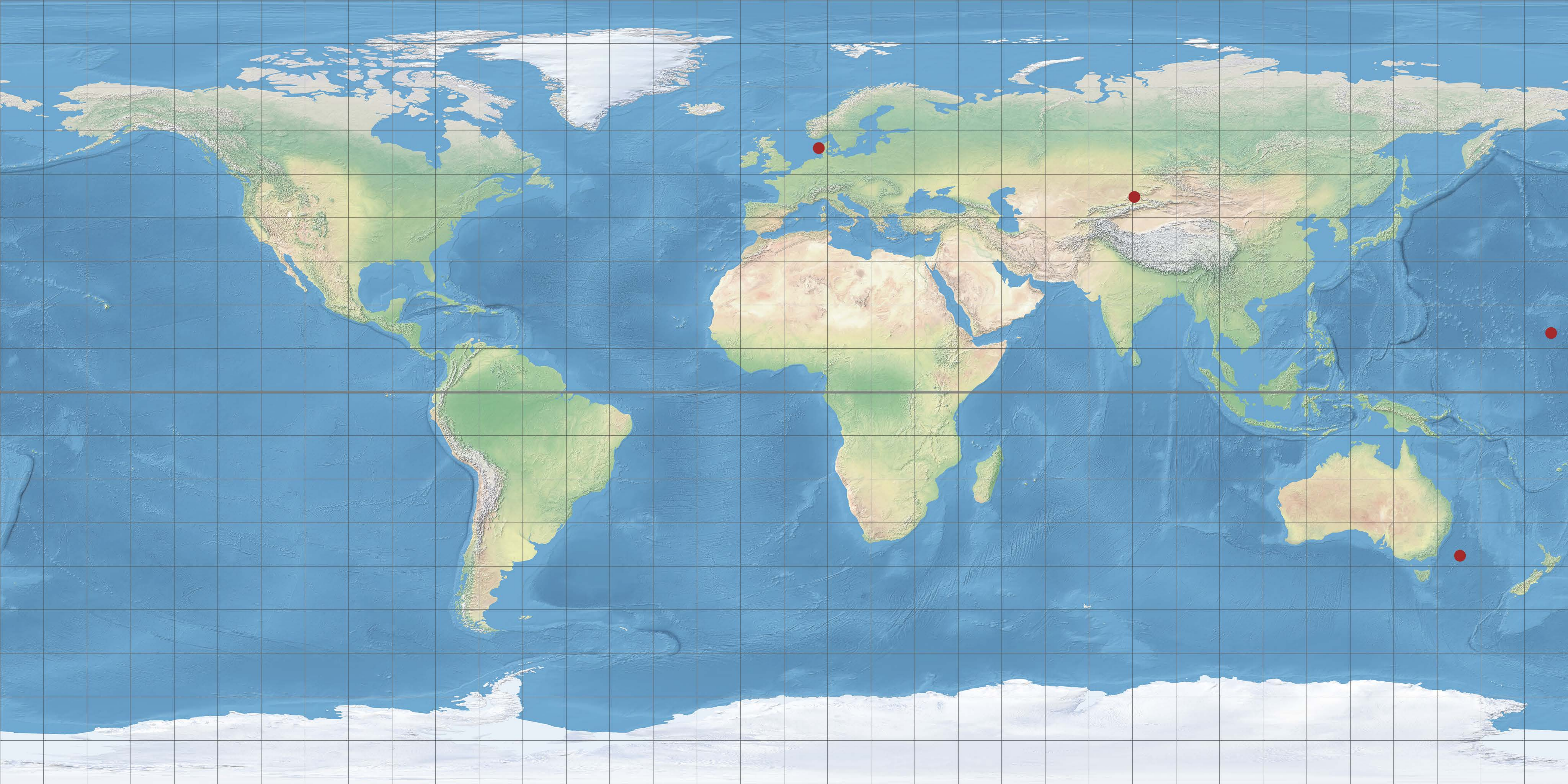


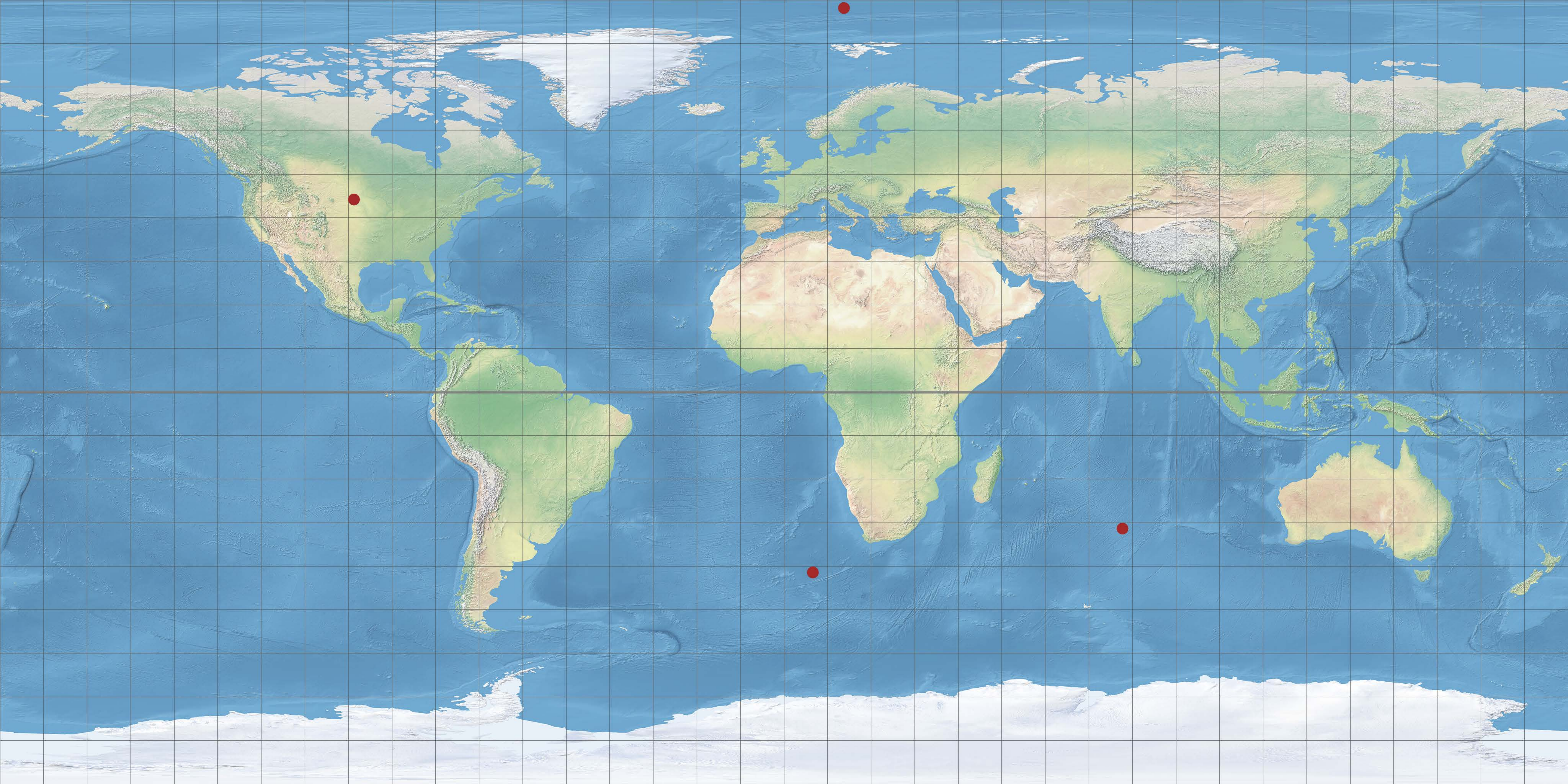
Distance comparison
Far distance condition

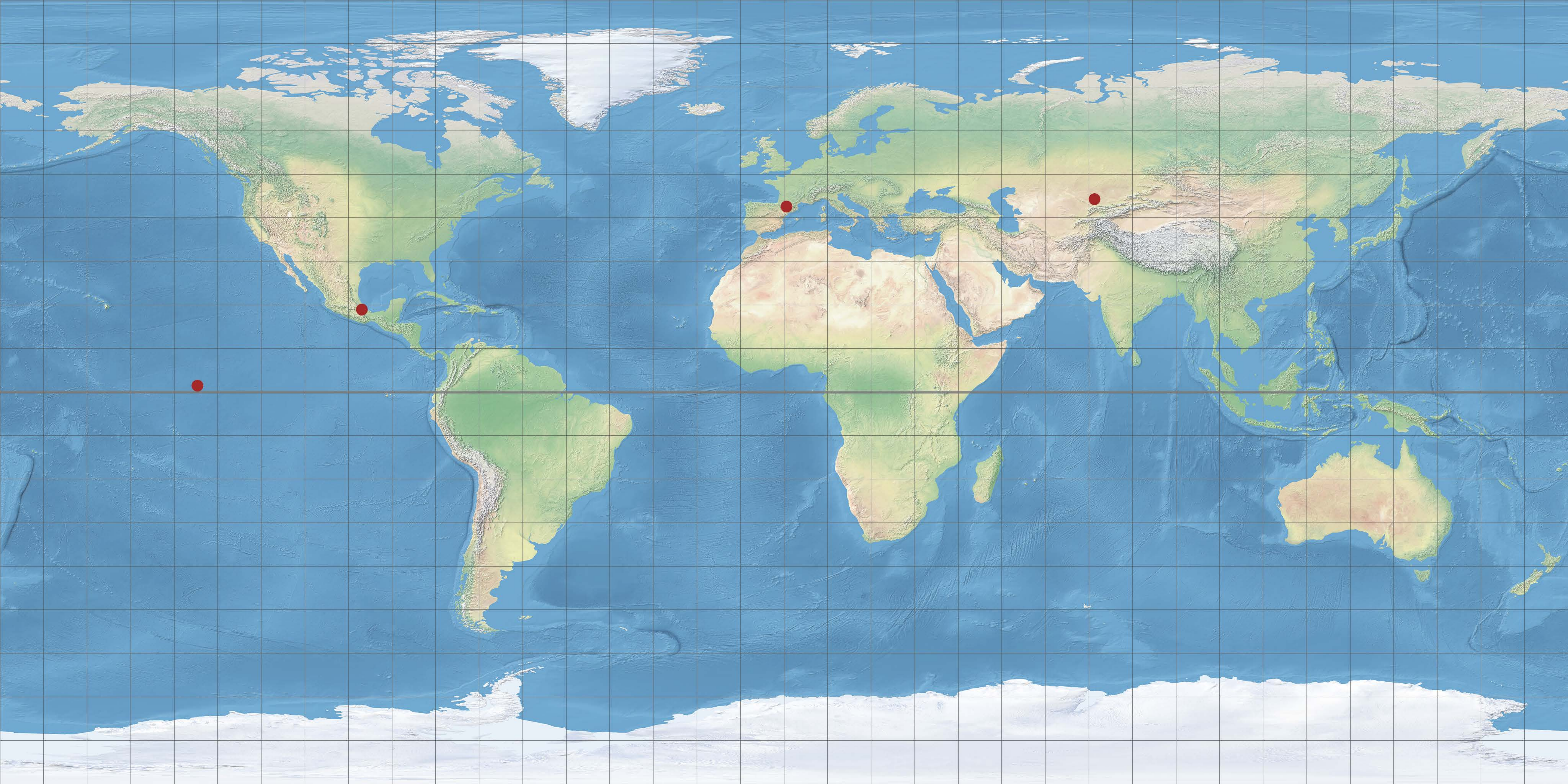


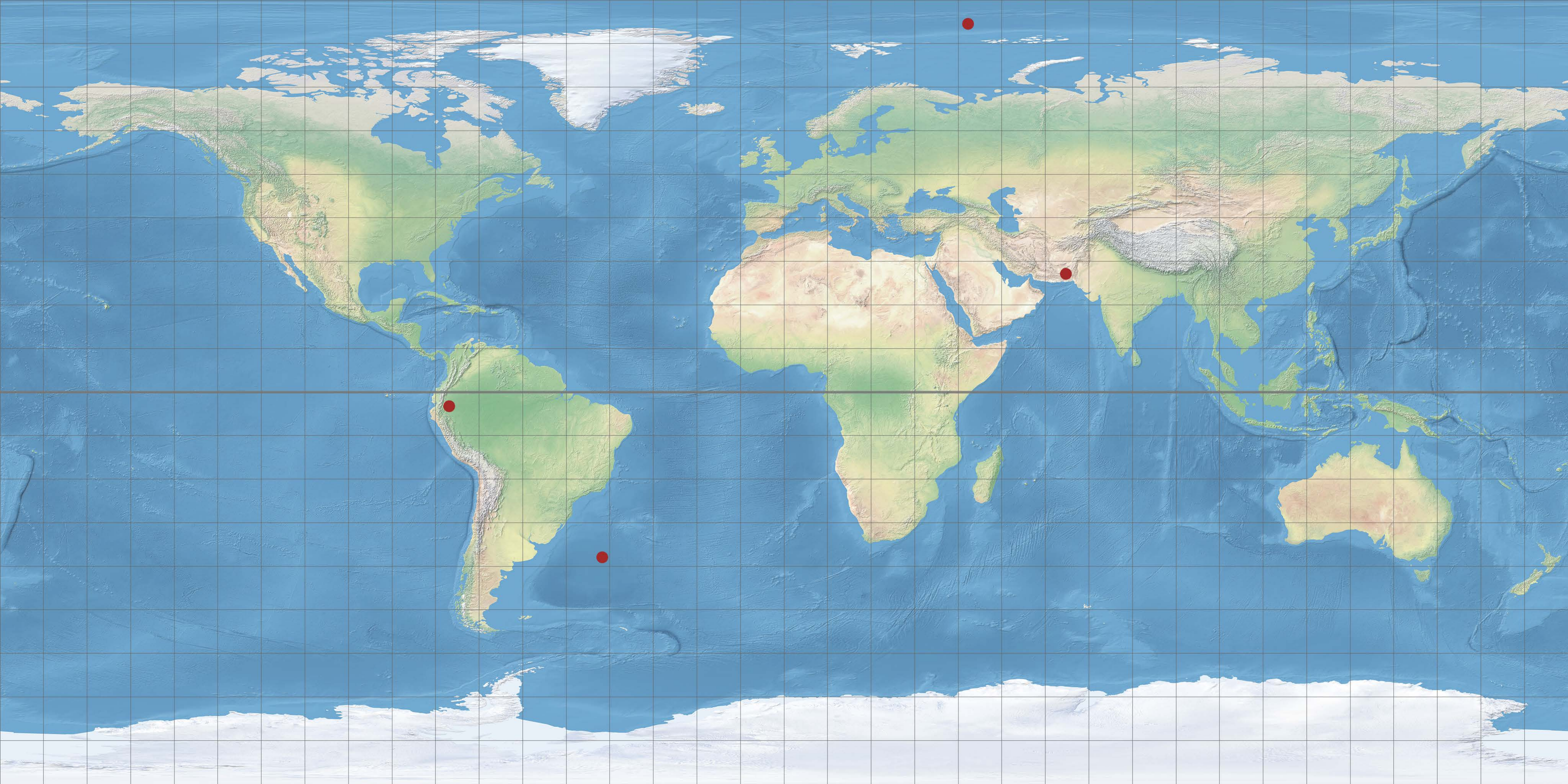


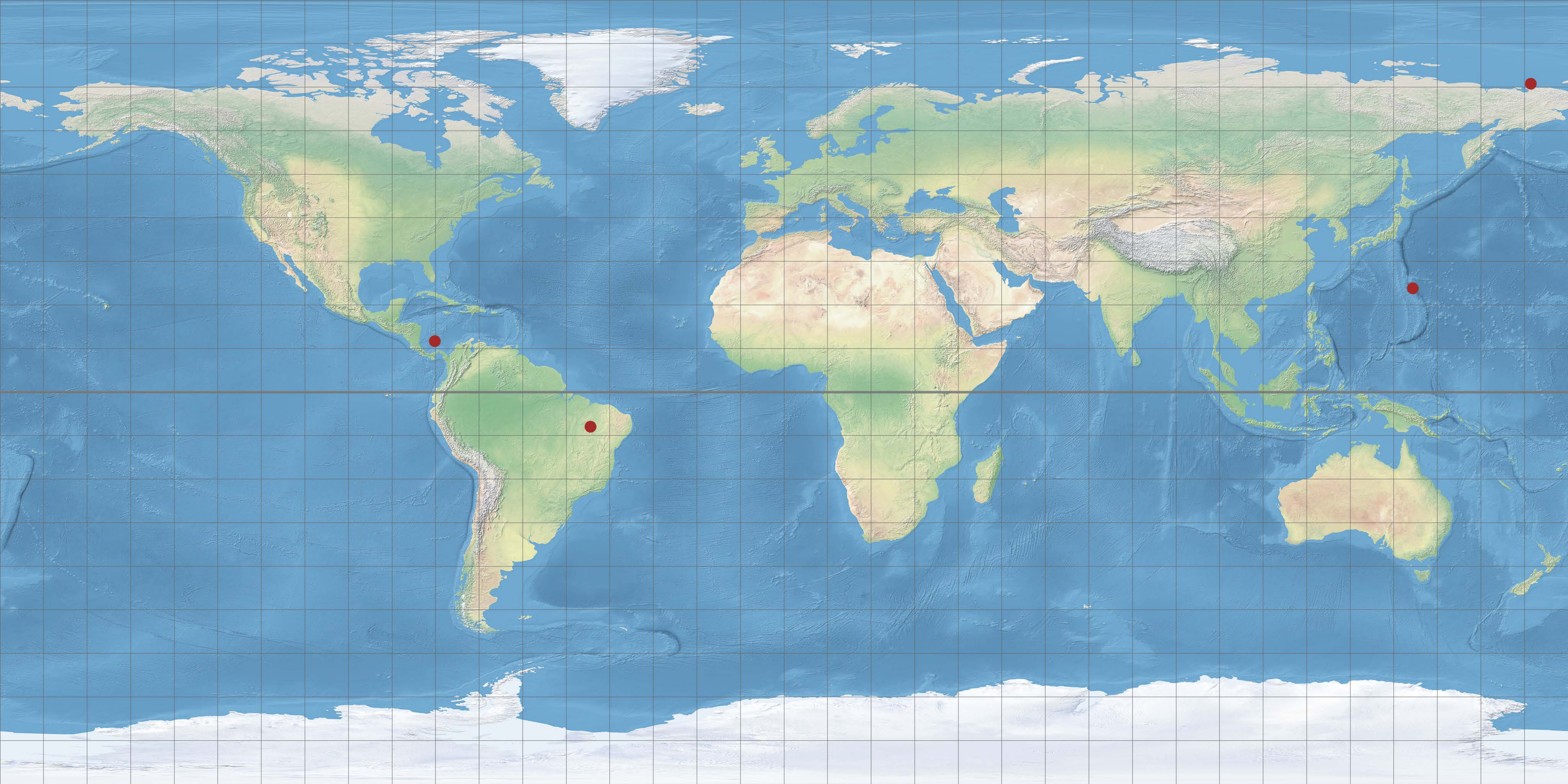


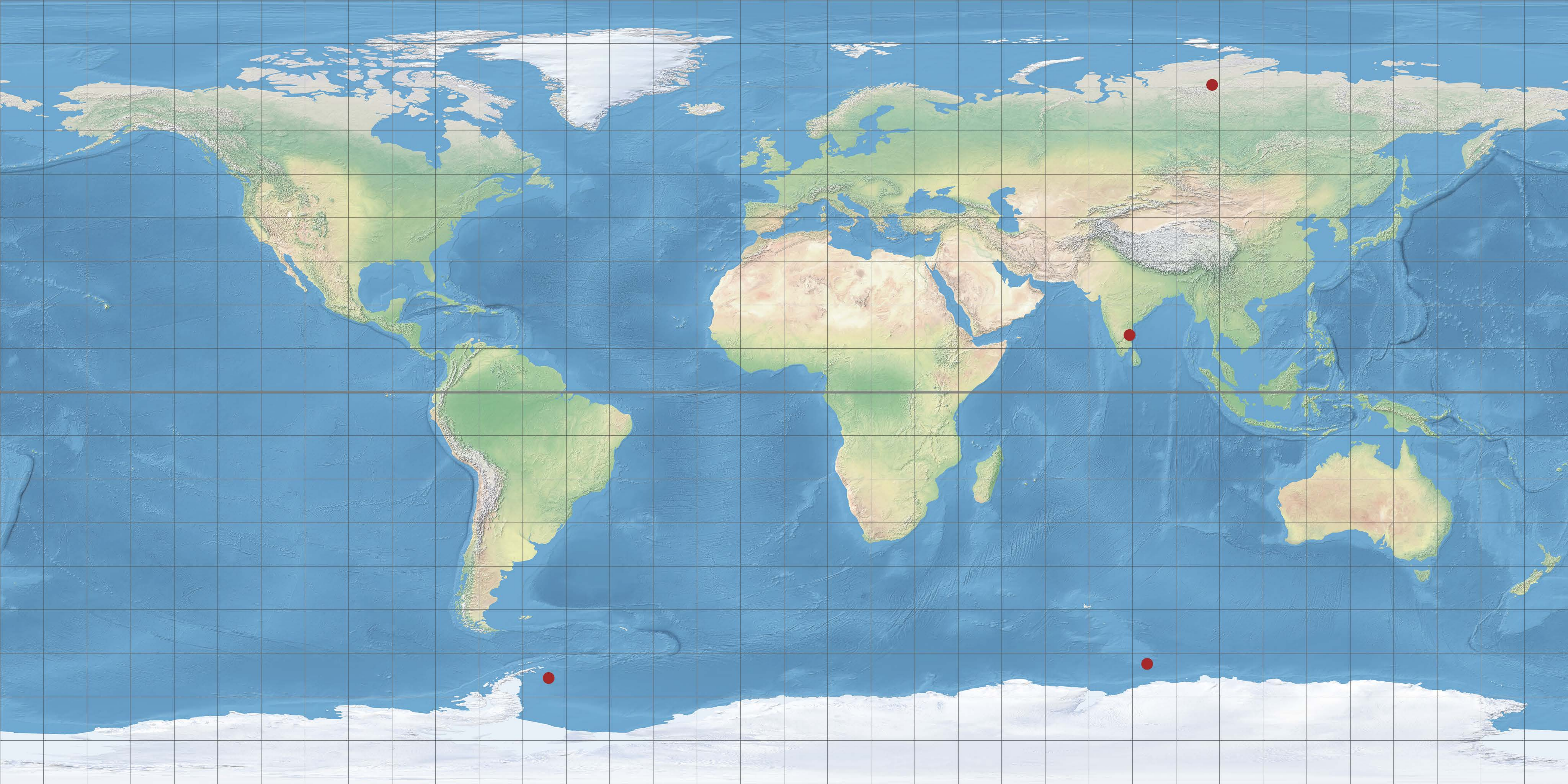


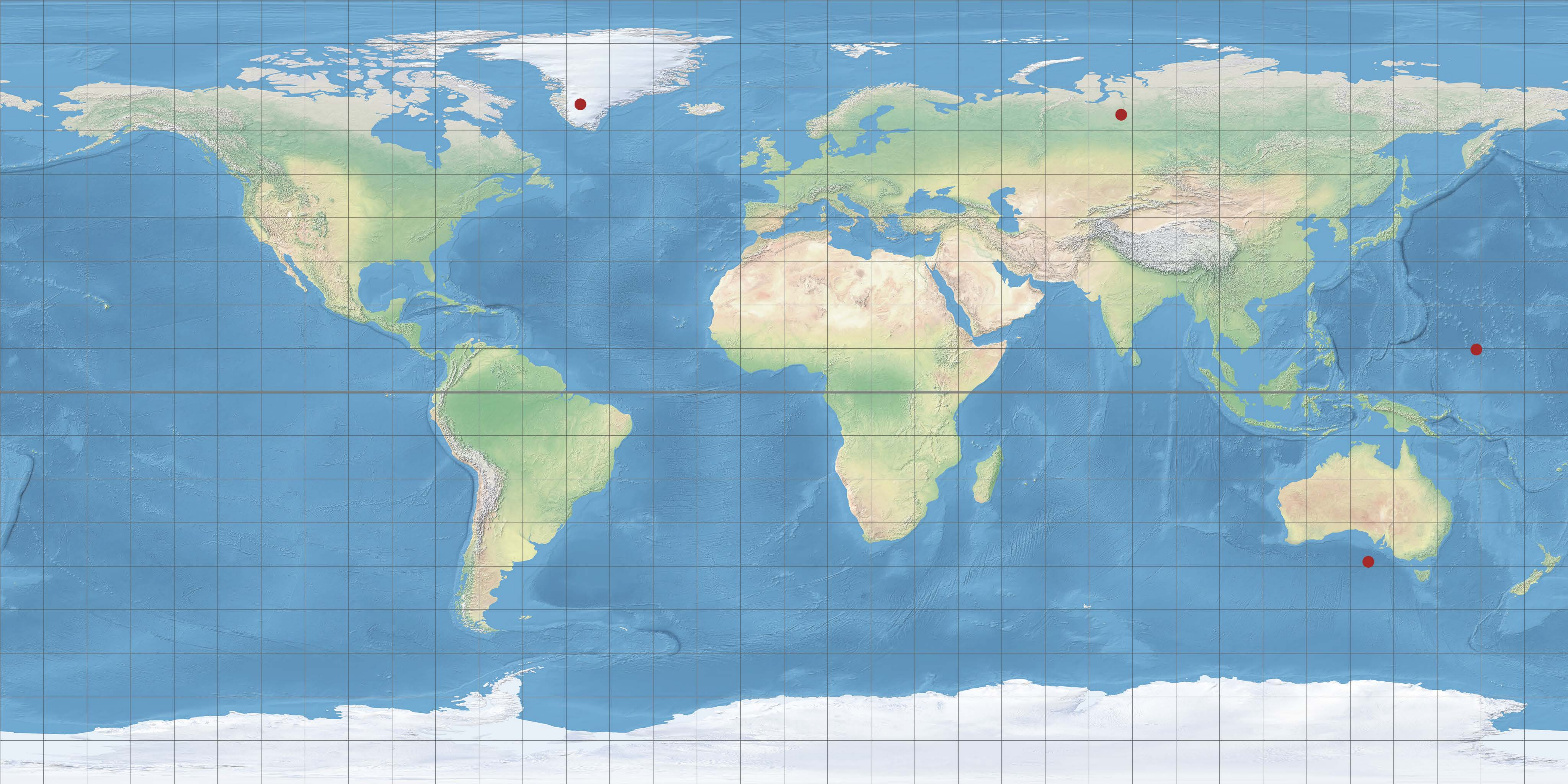


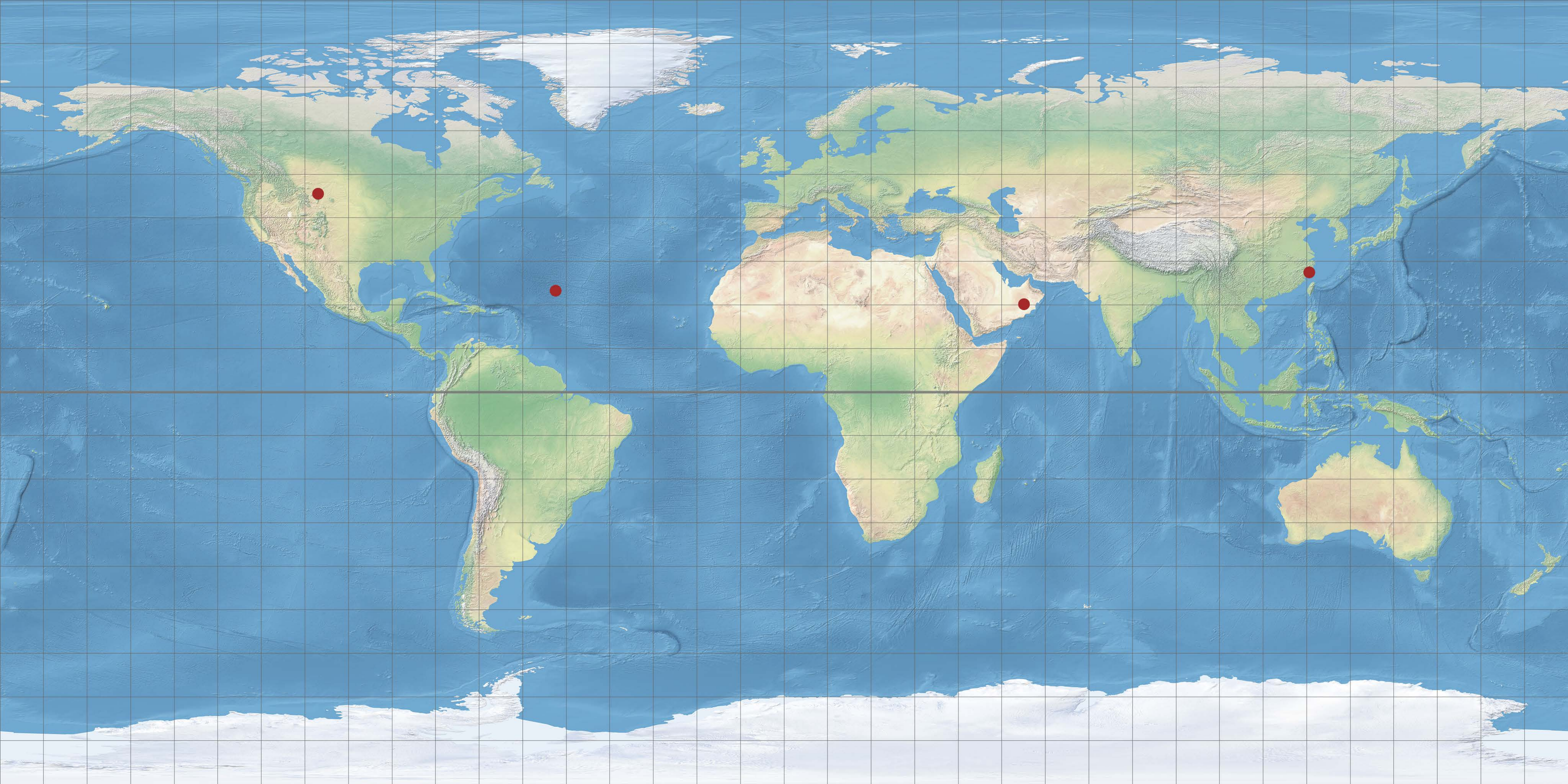


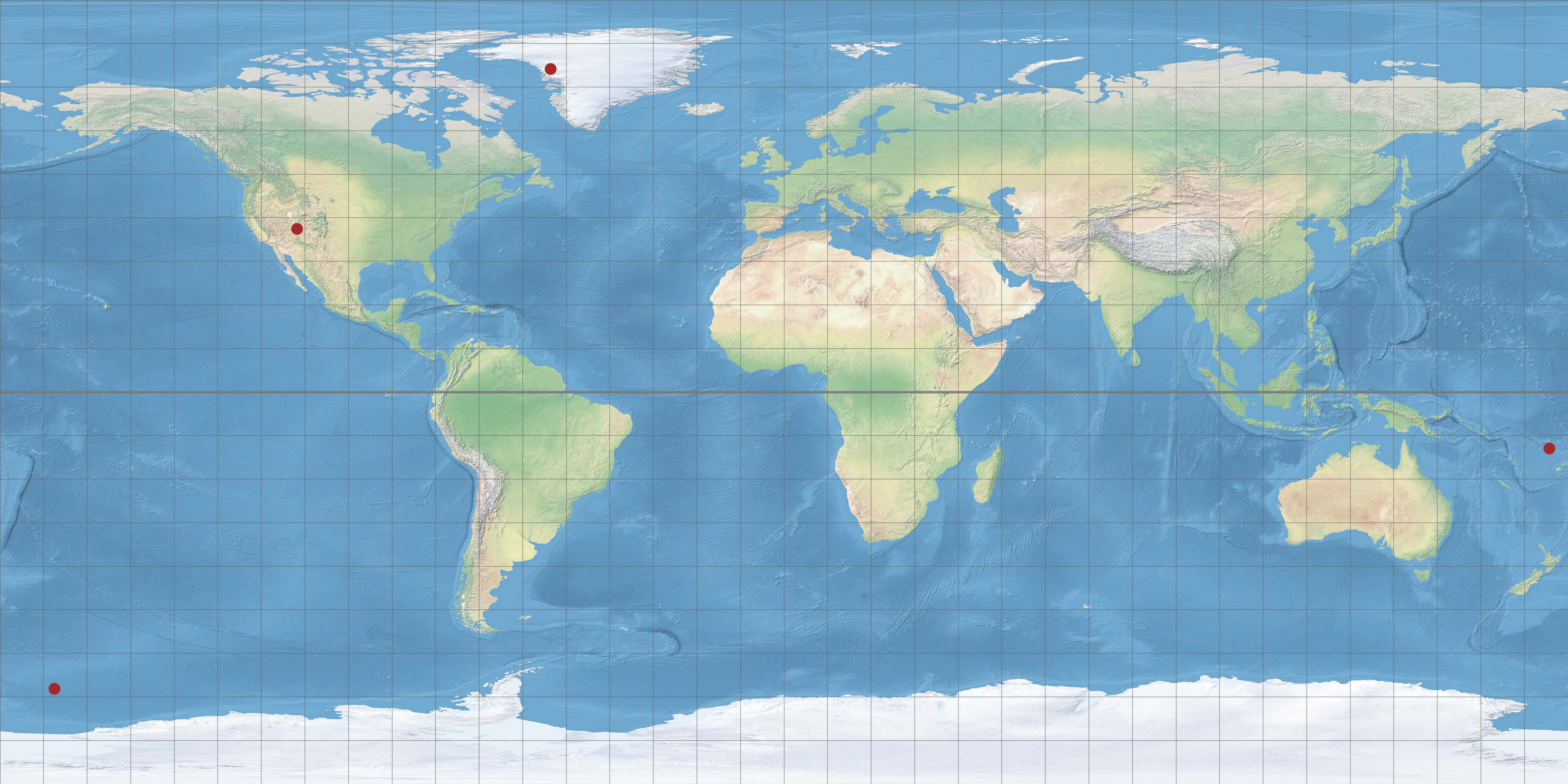






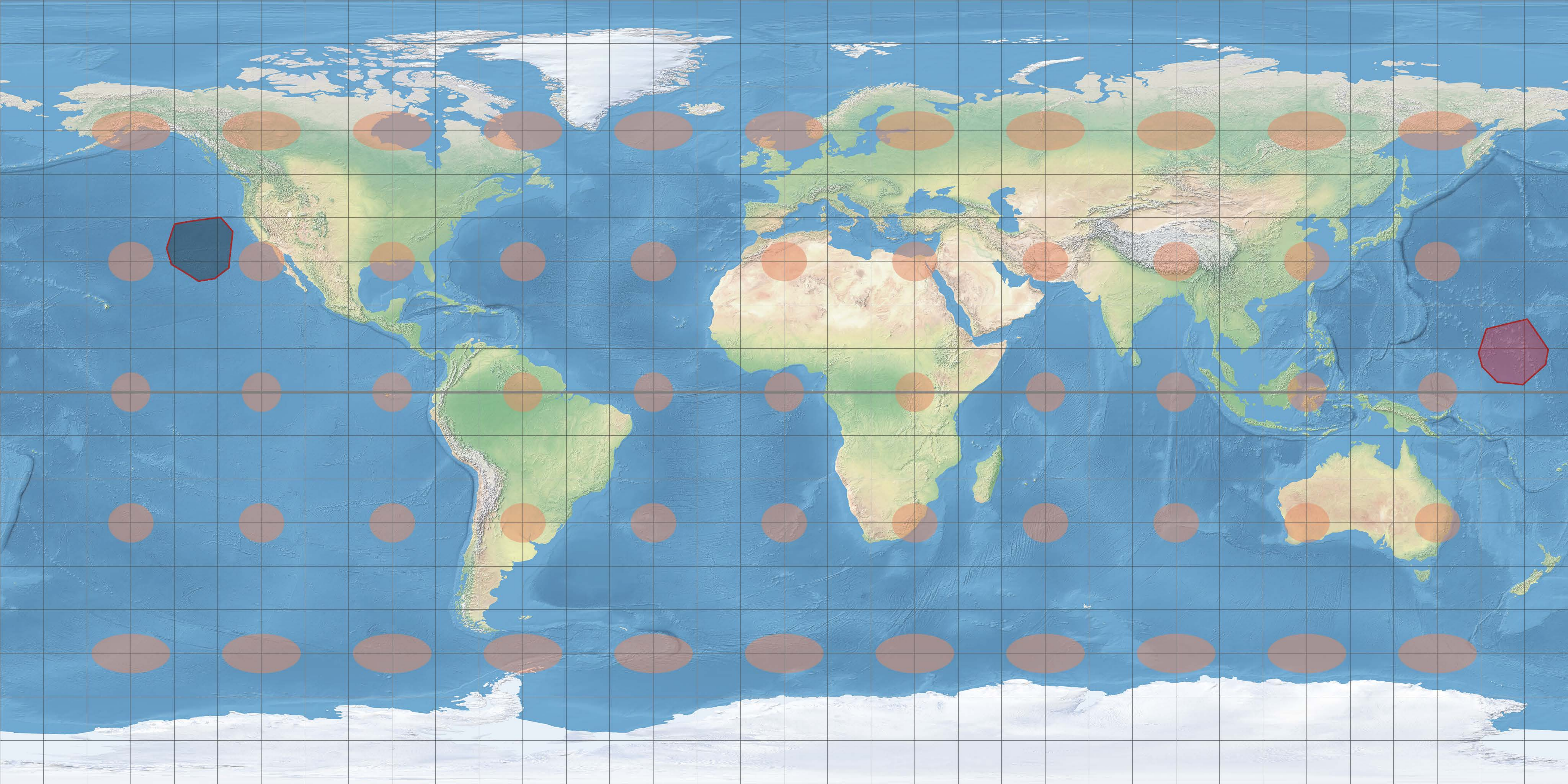


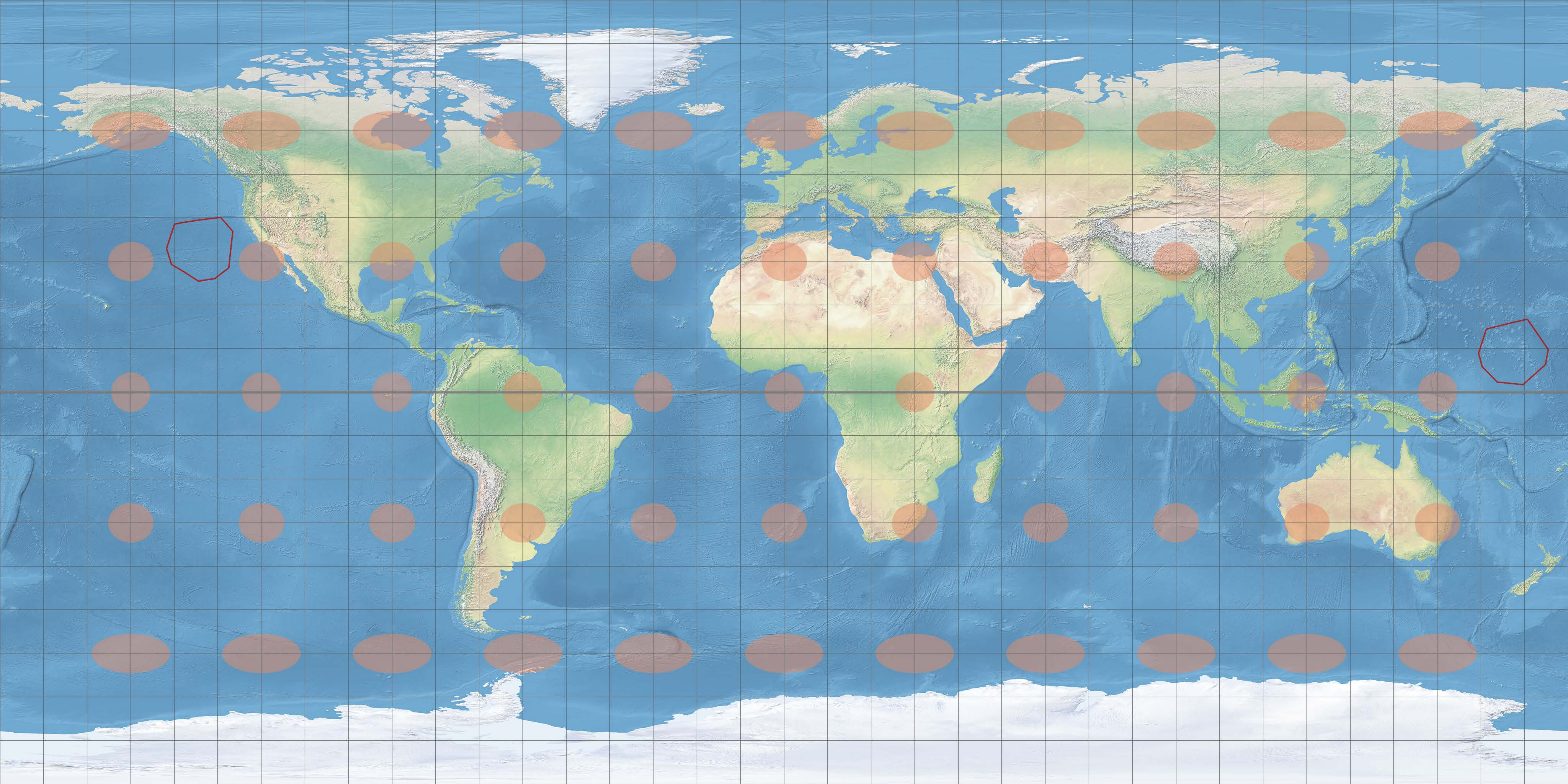


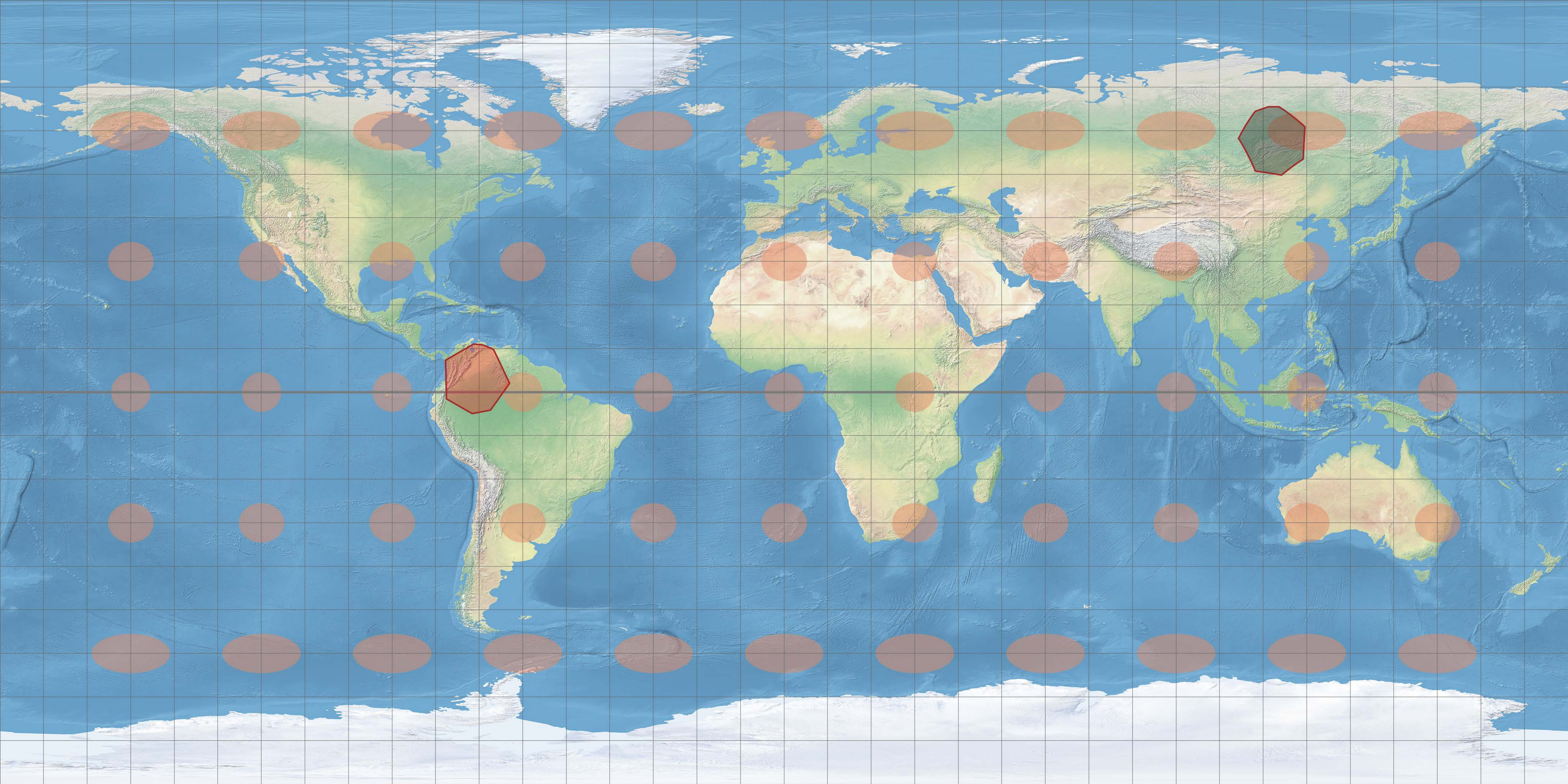


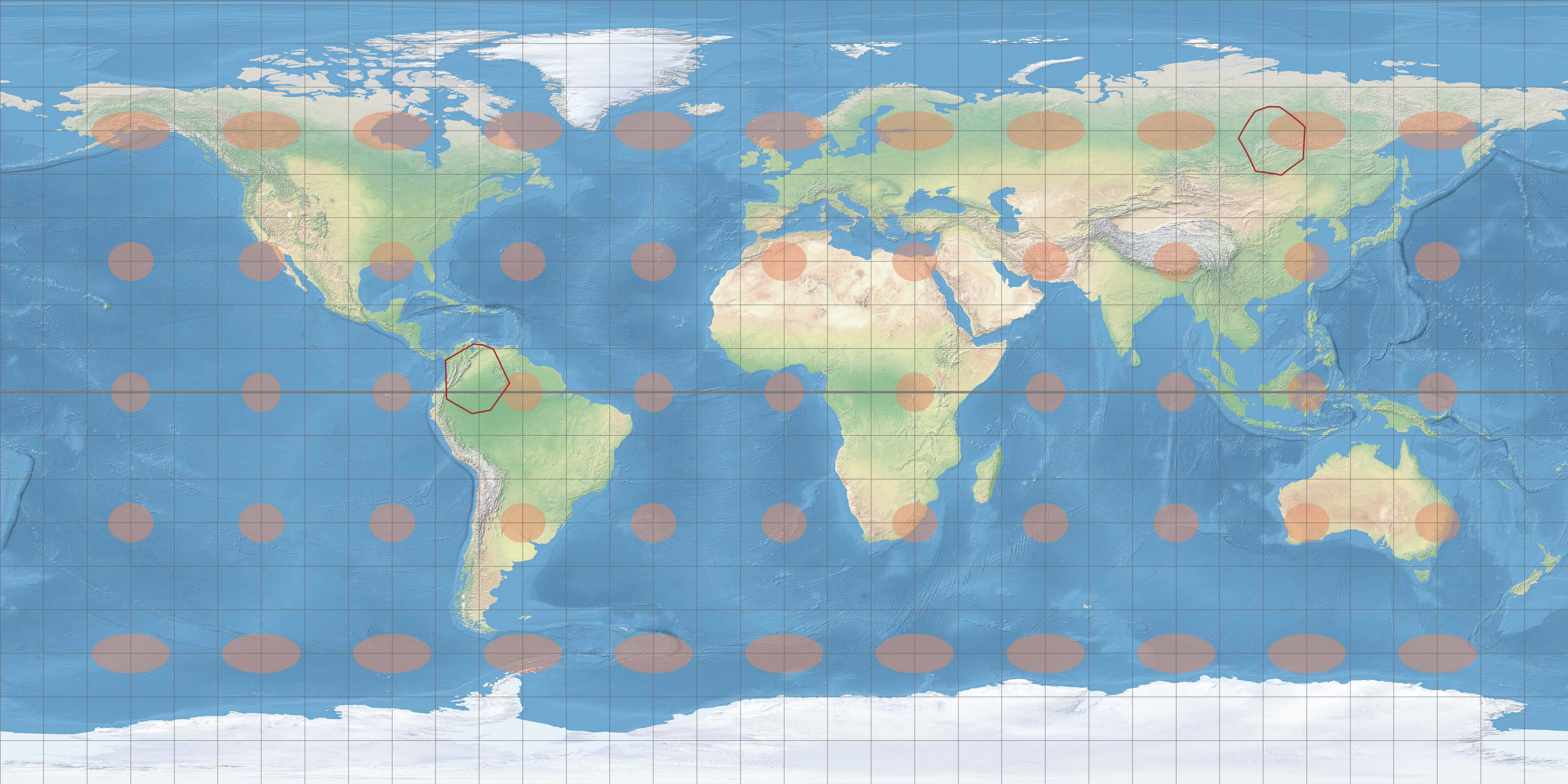
Area comparison

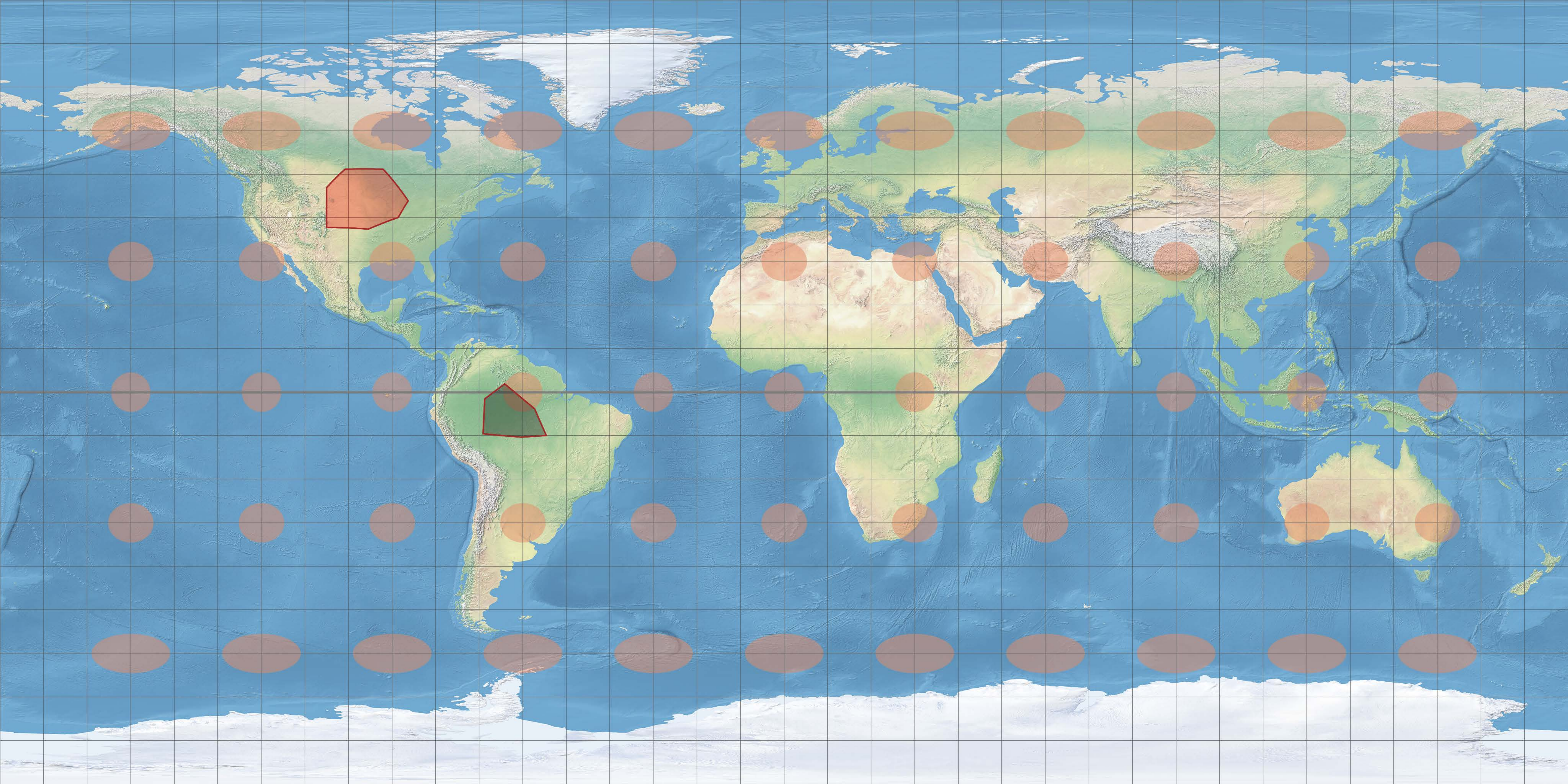
Training (with correct answers shown to participants)

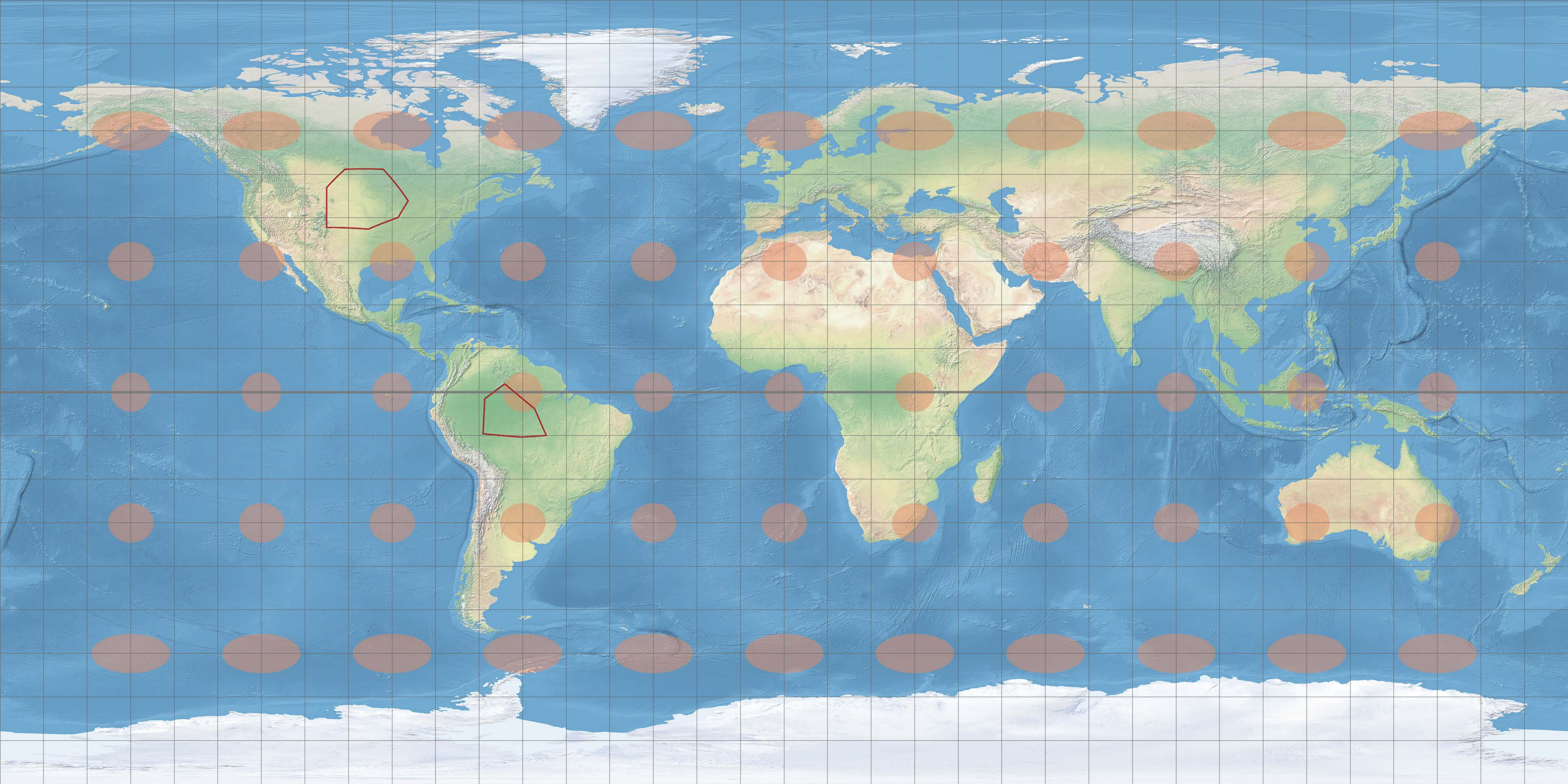


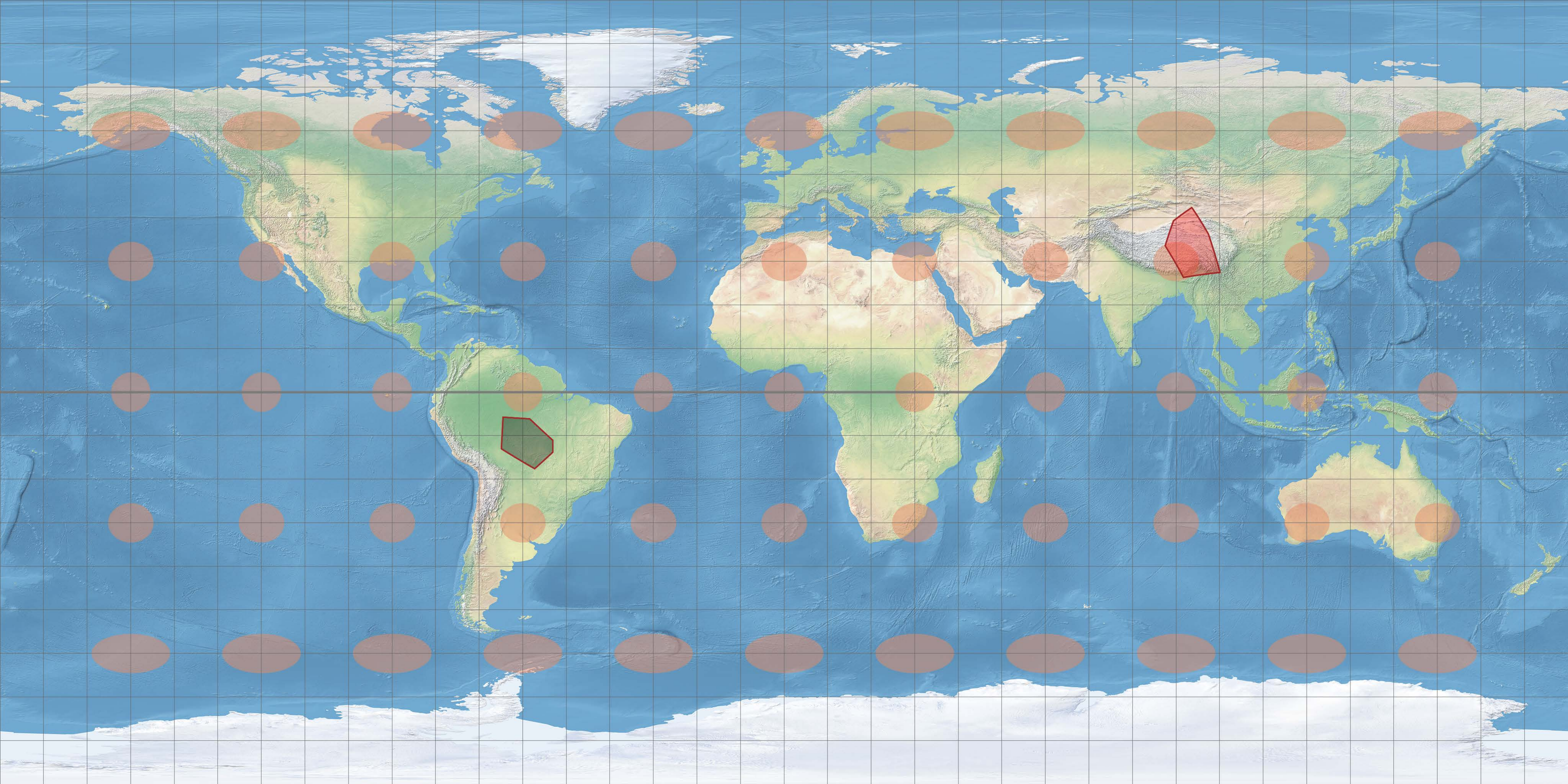


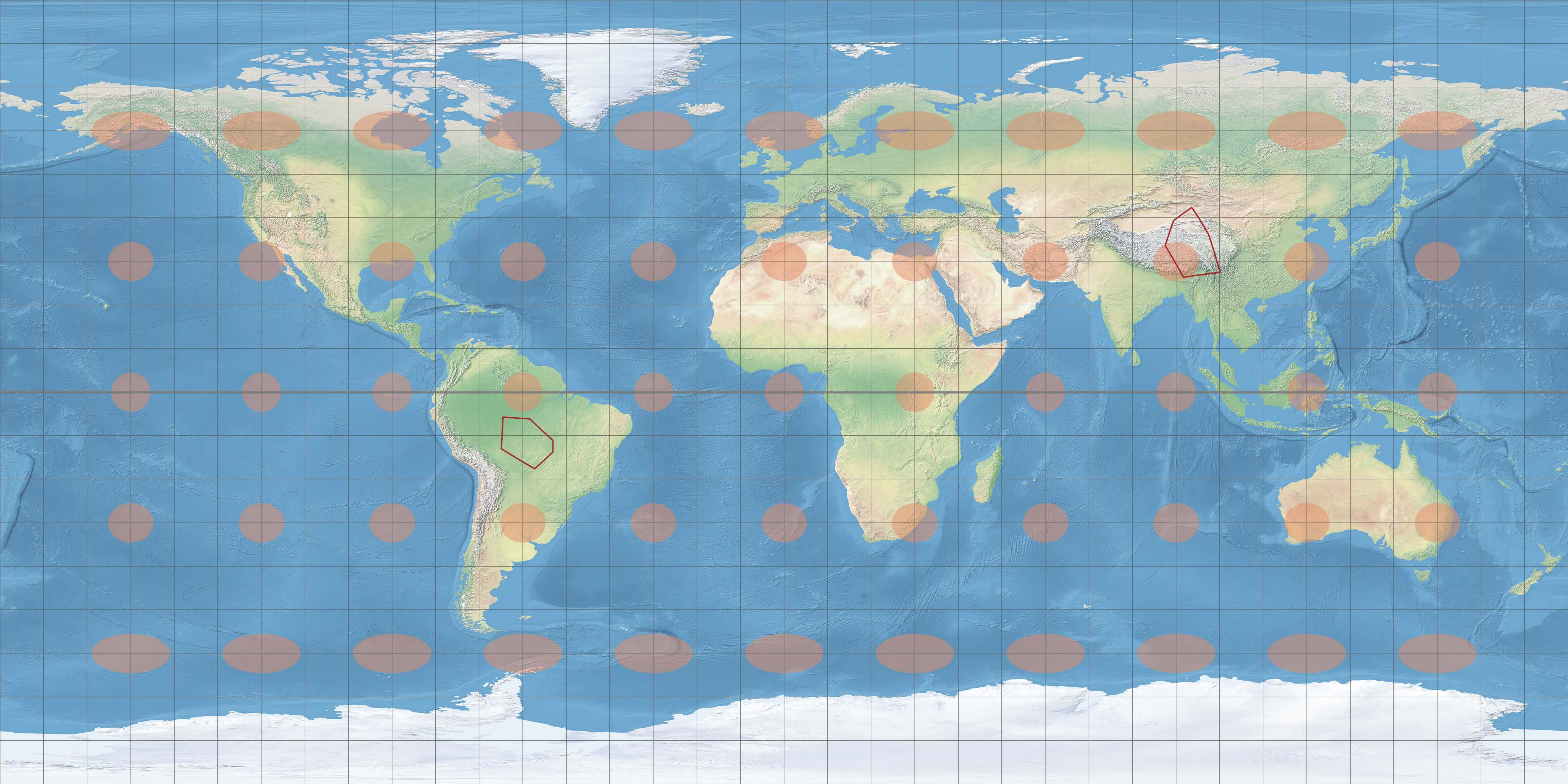


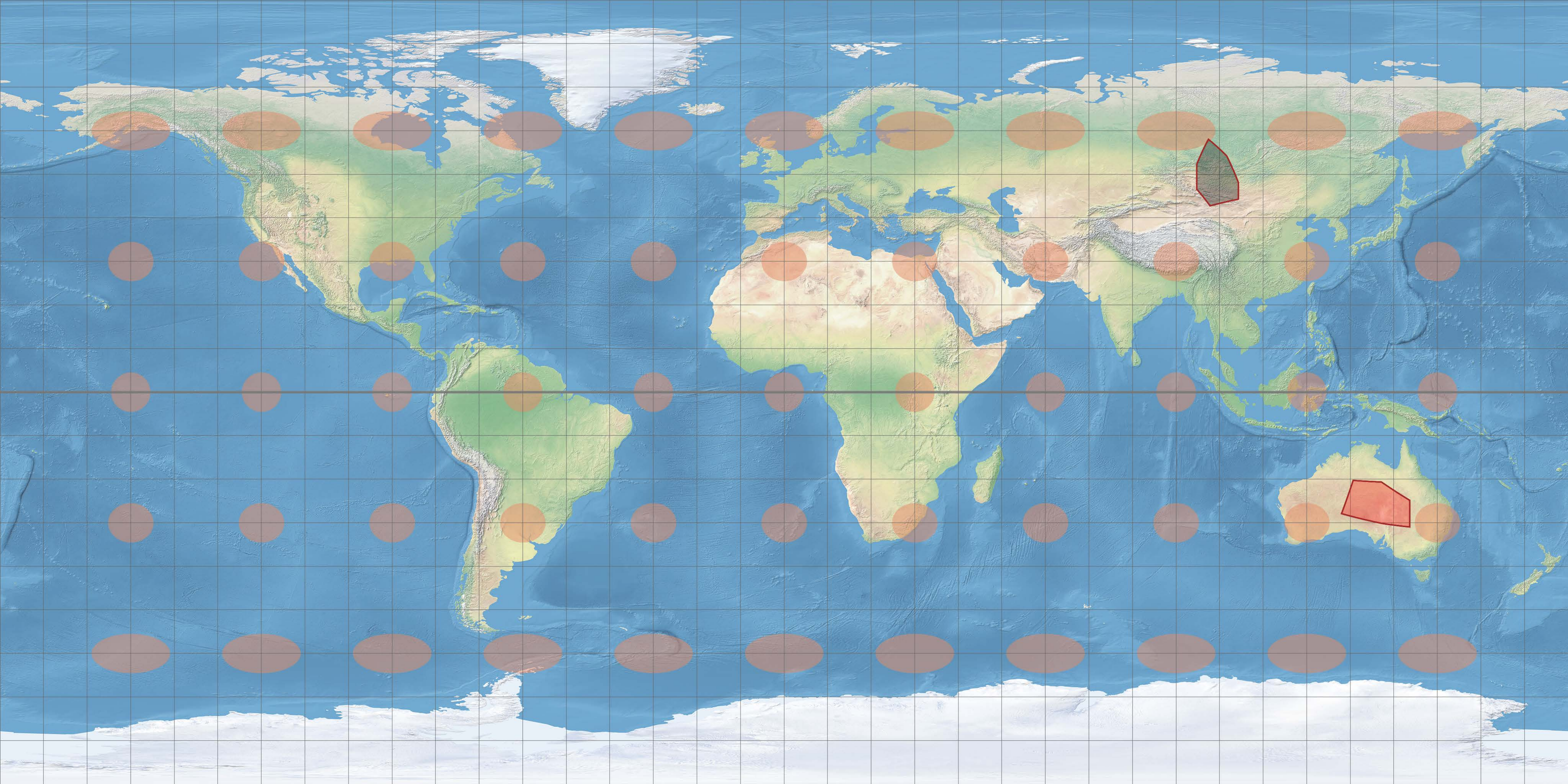


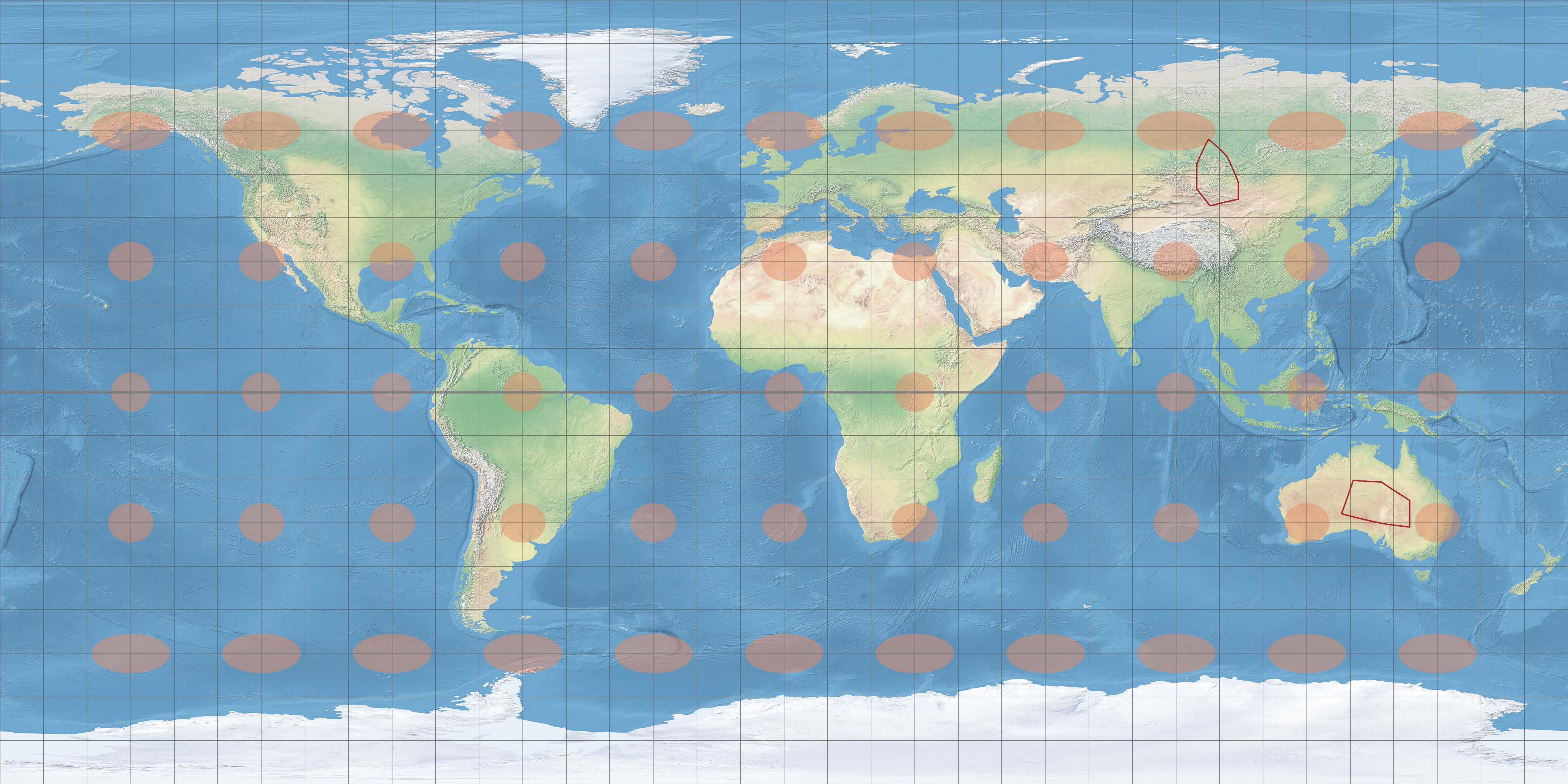


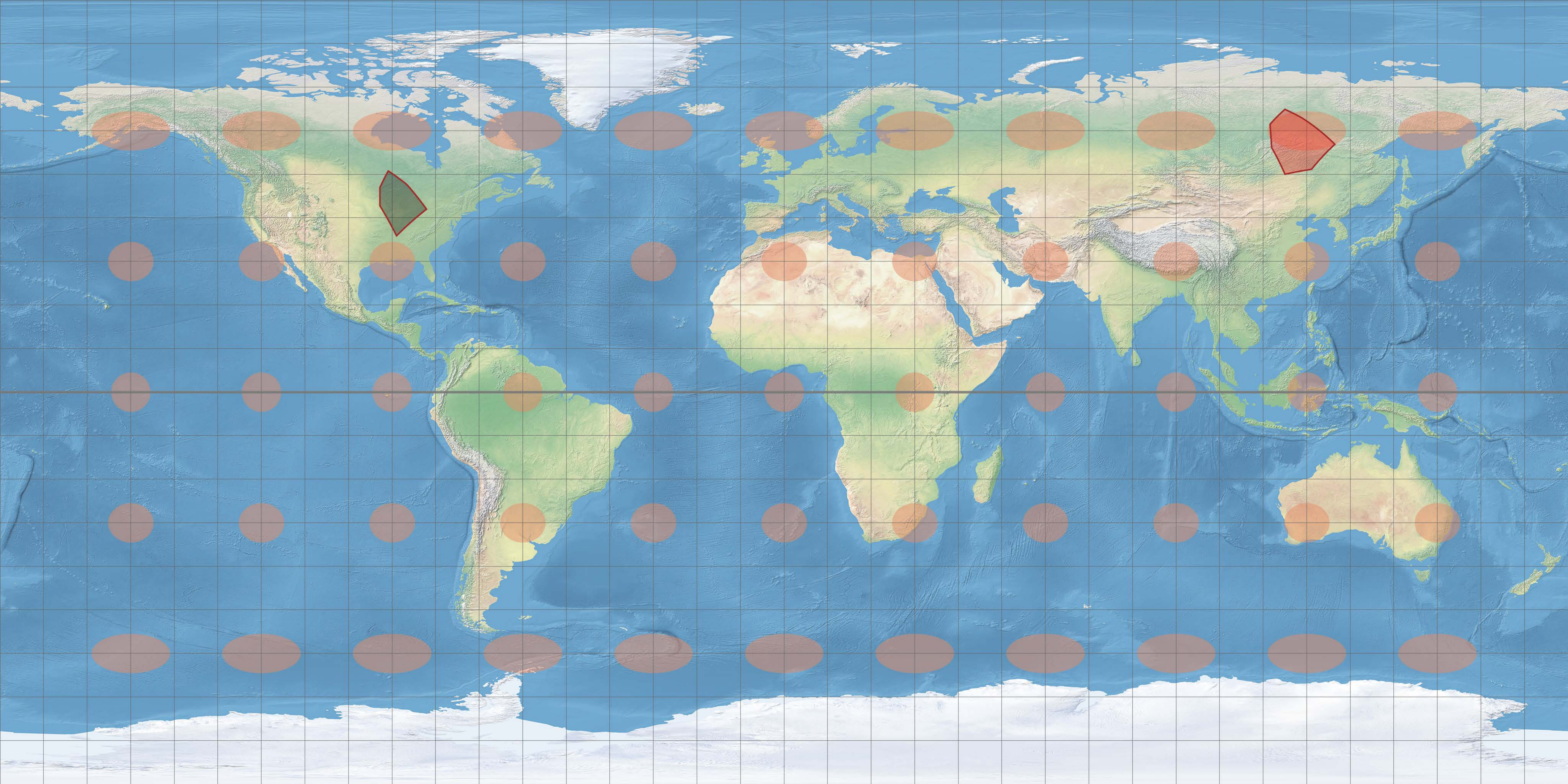


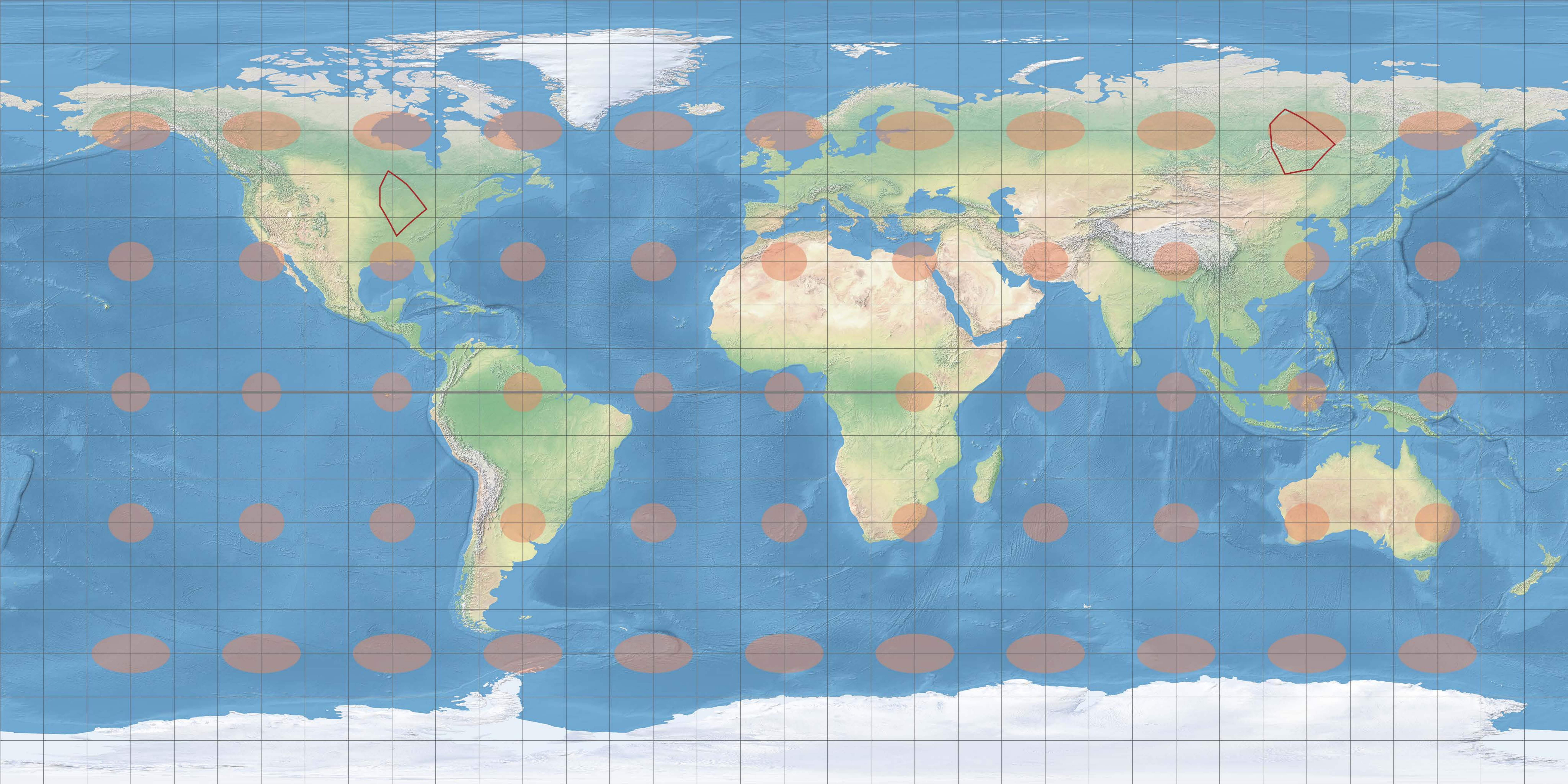


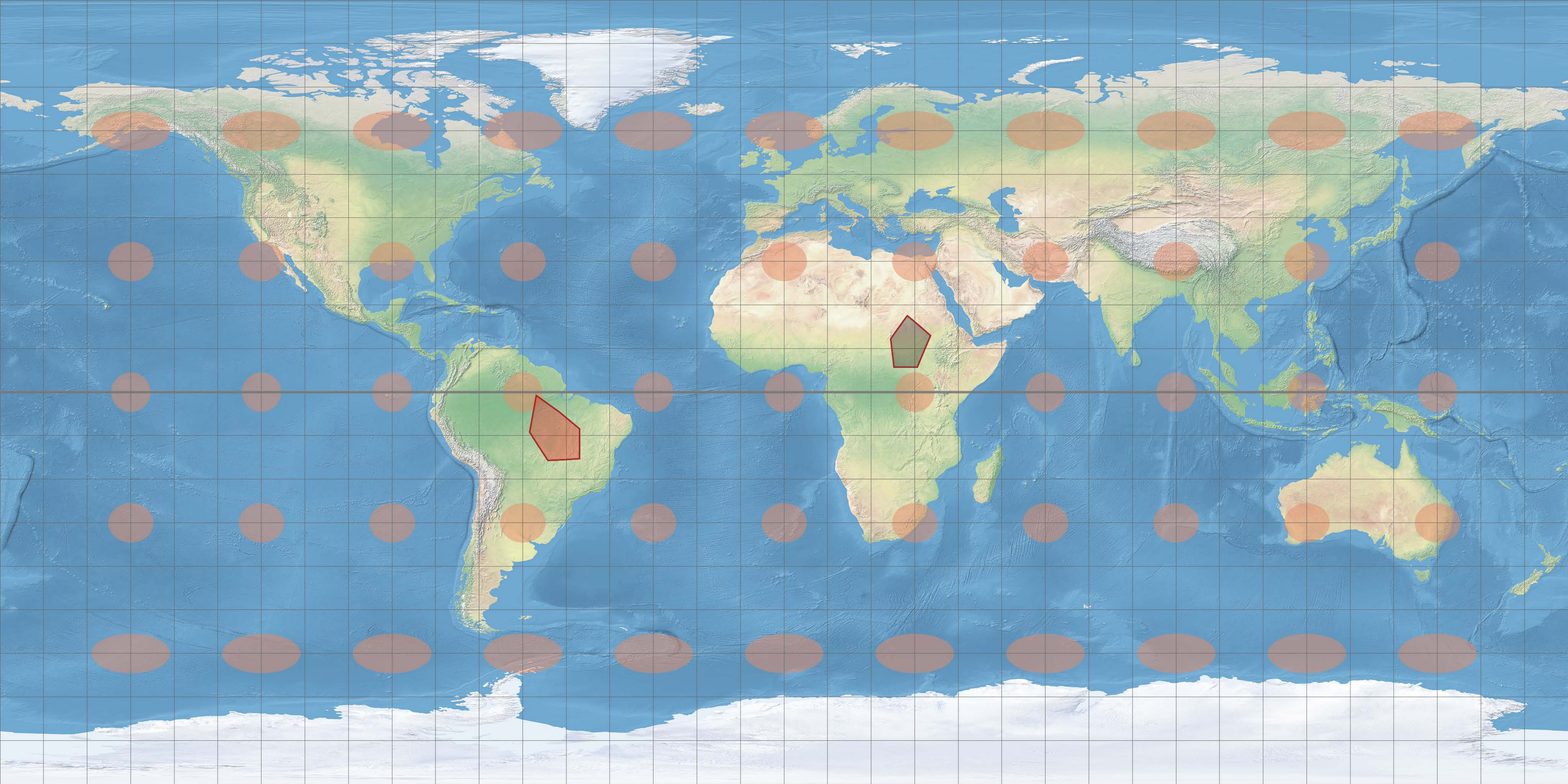


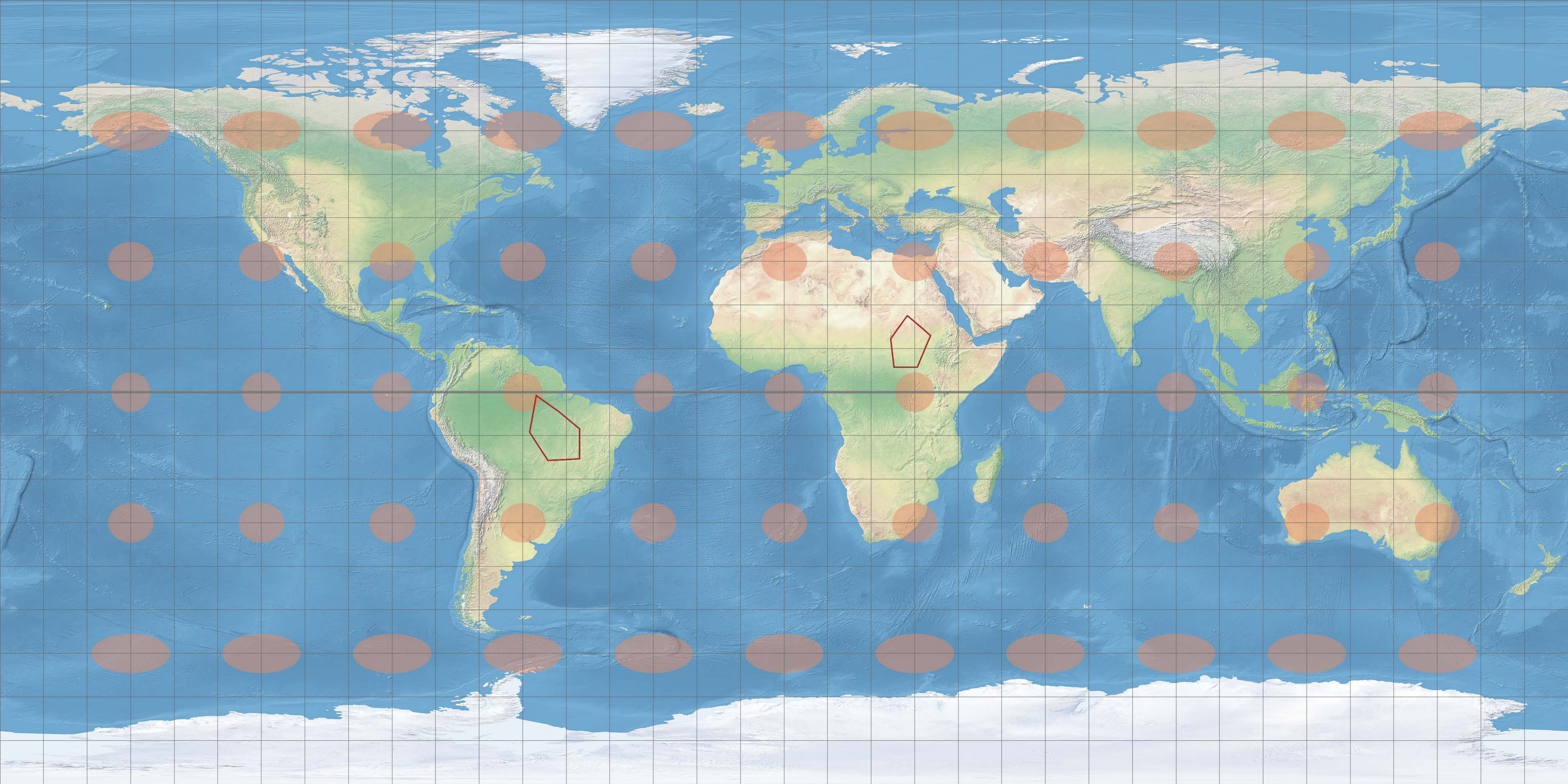


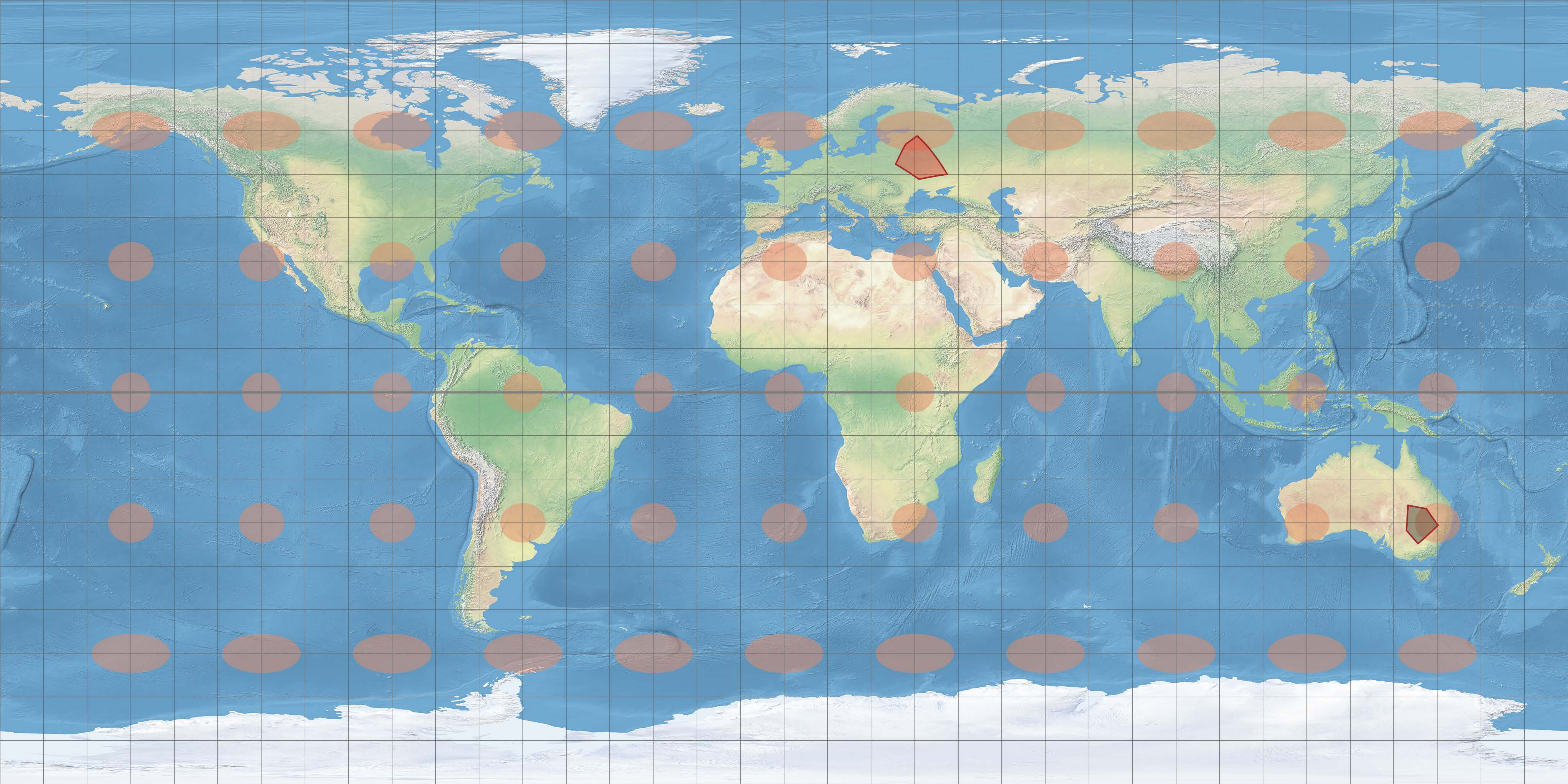


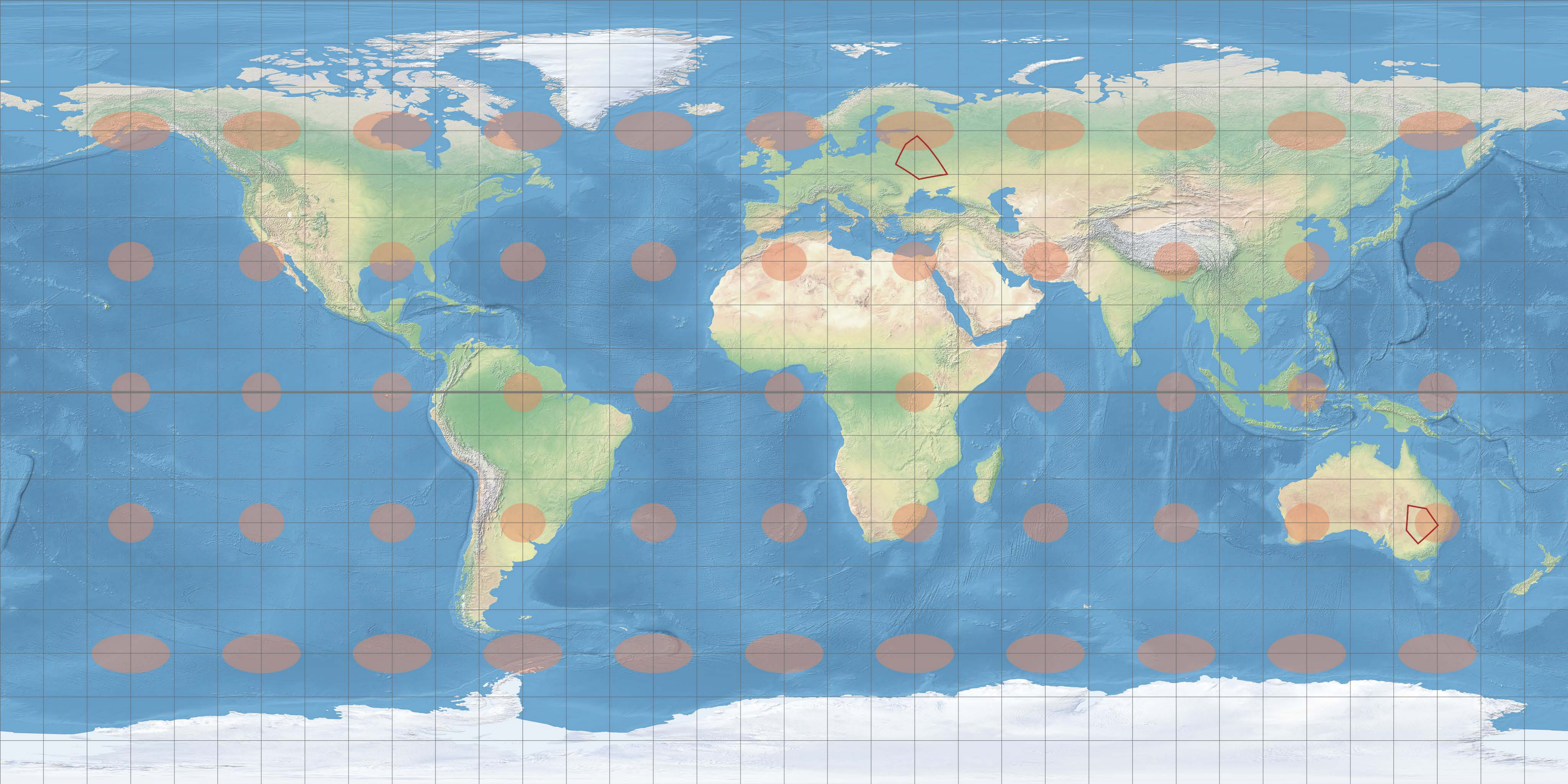




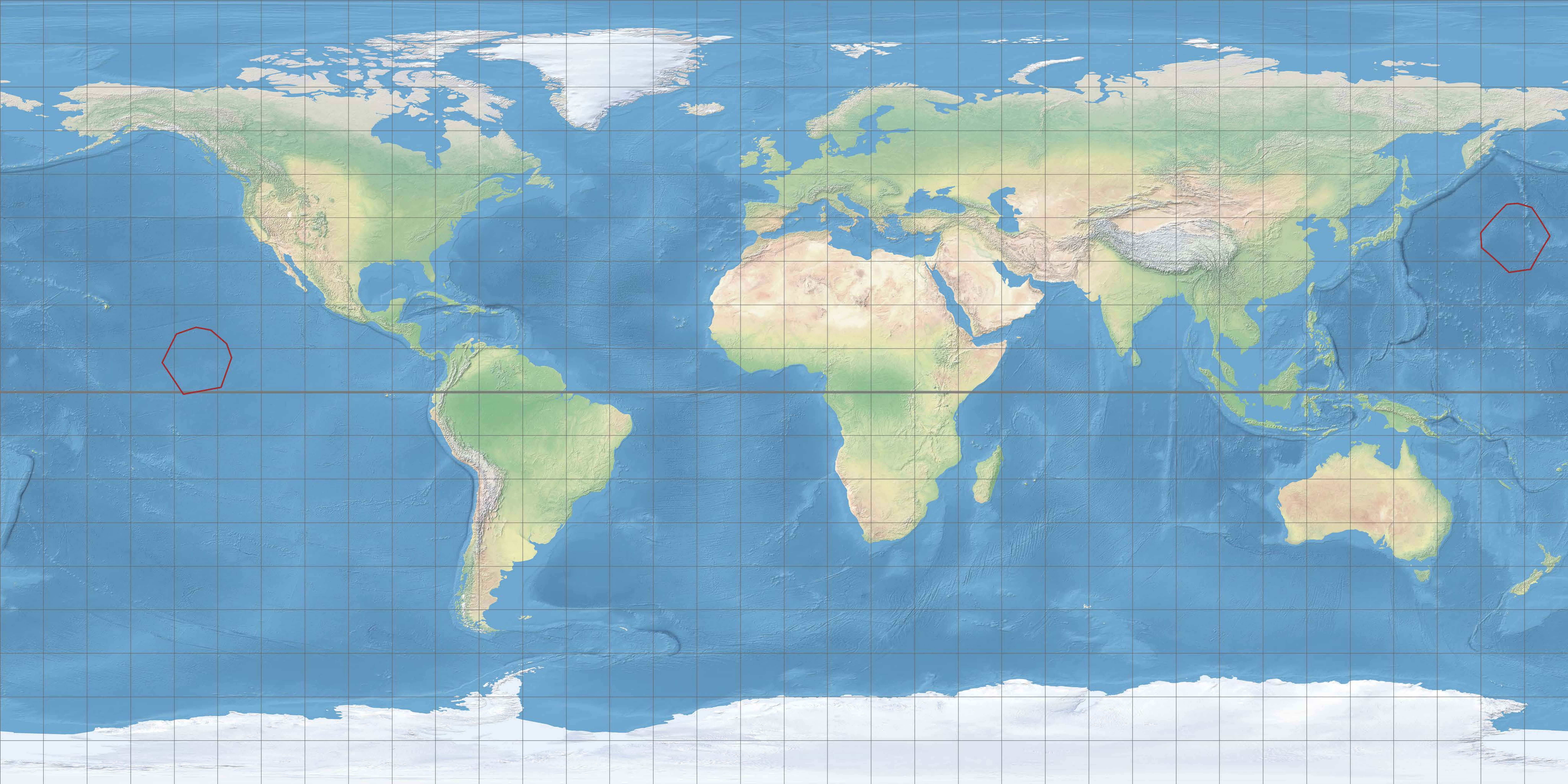


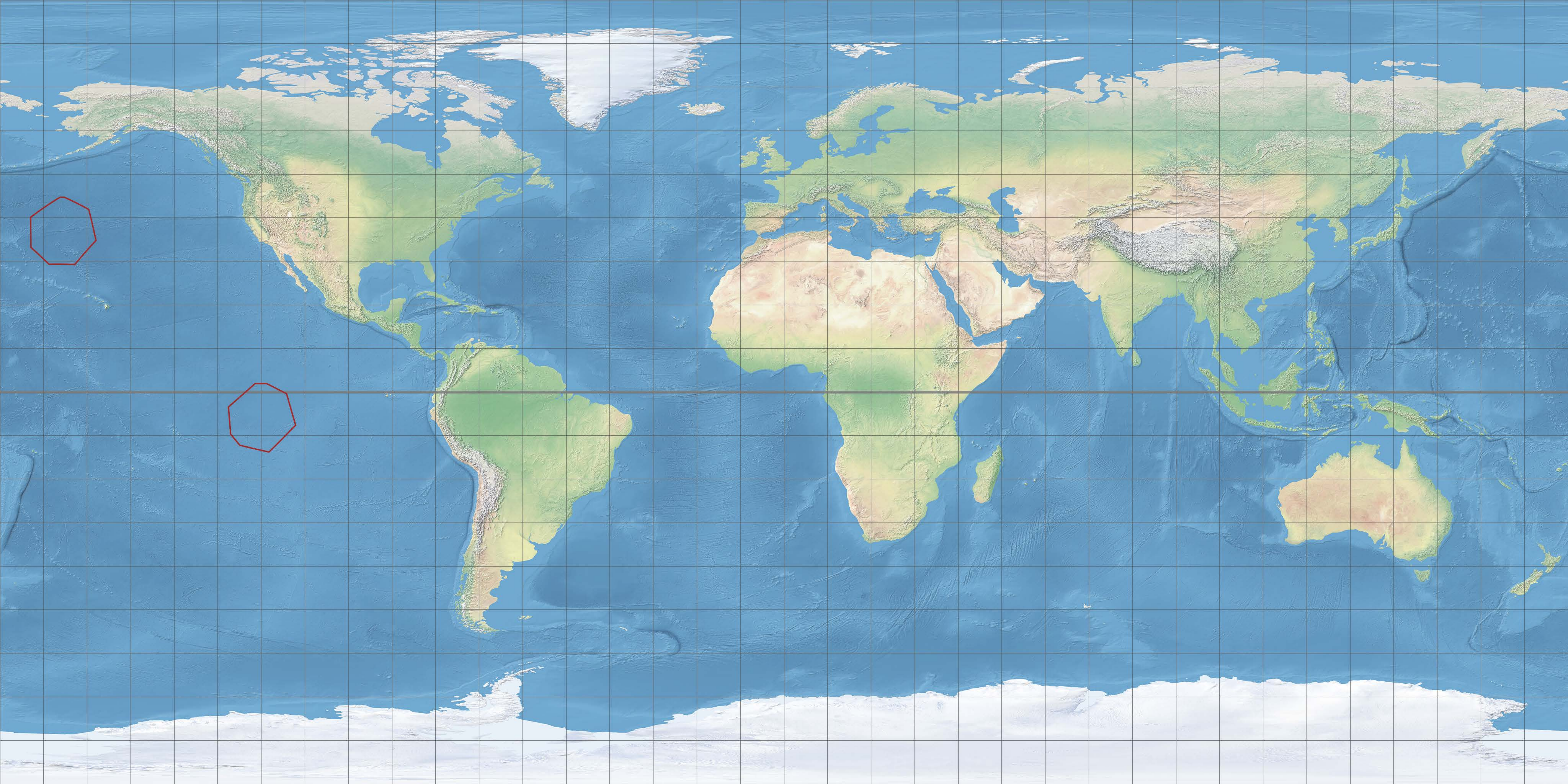


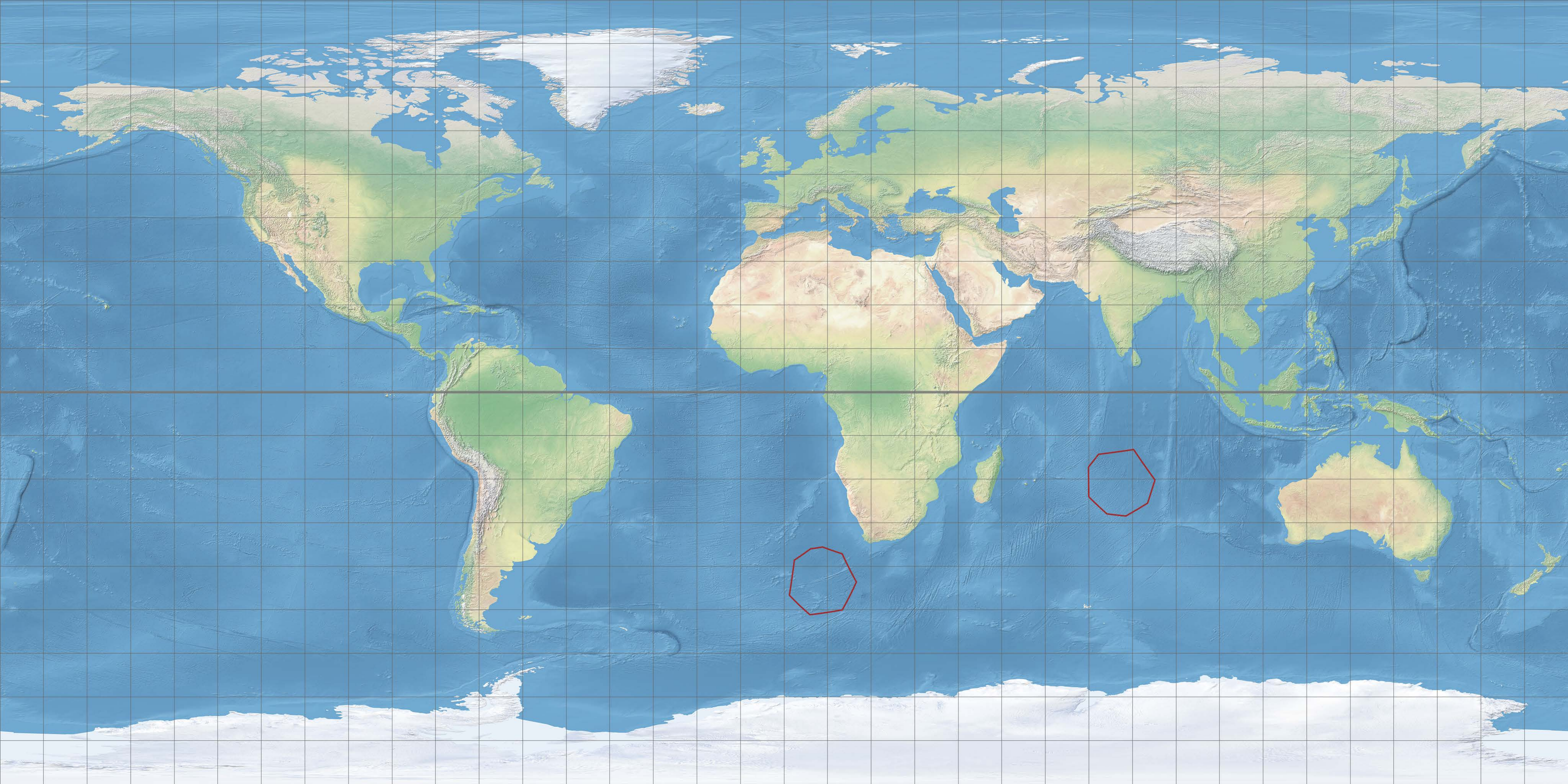


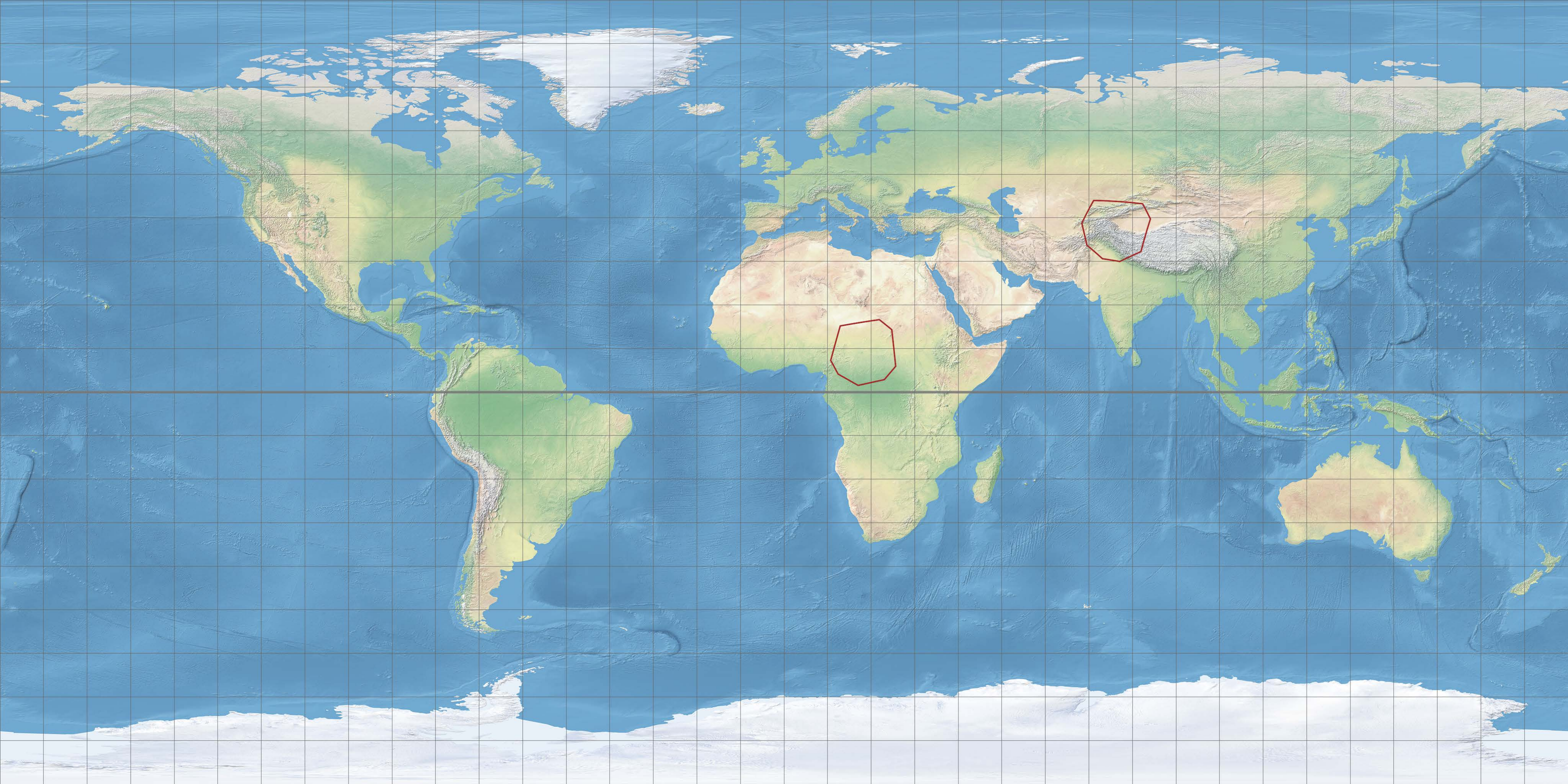


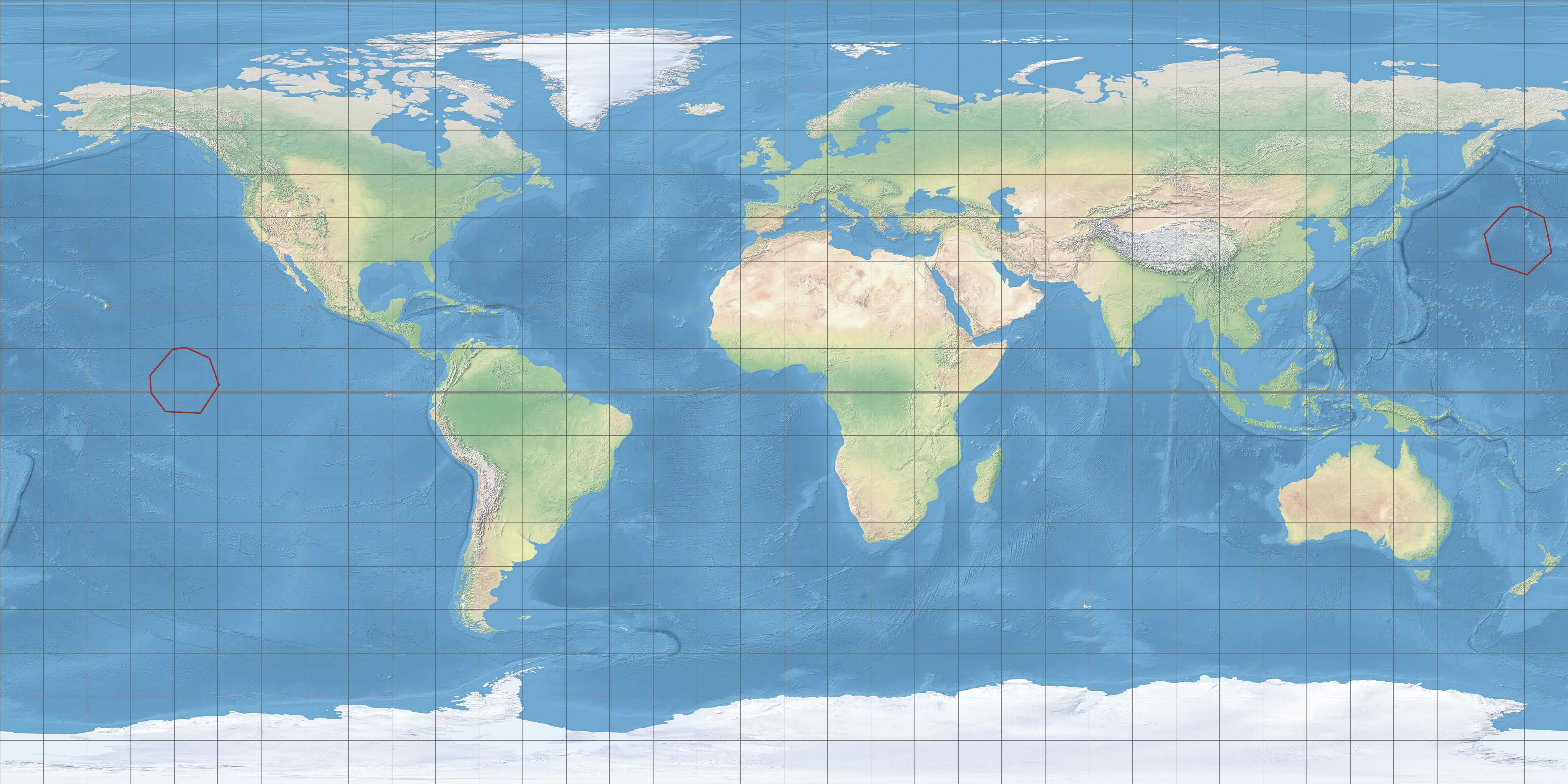
Area comparison
Easy condition

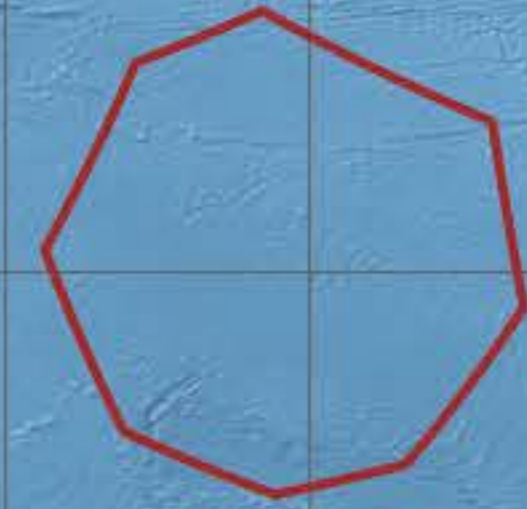
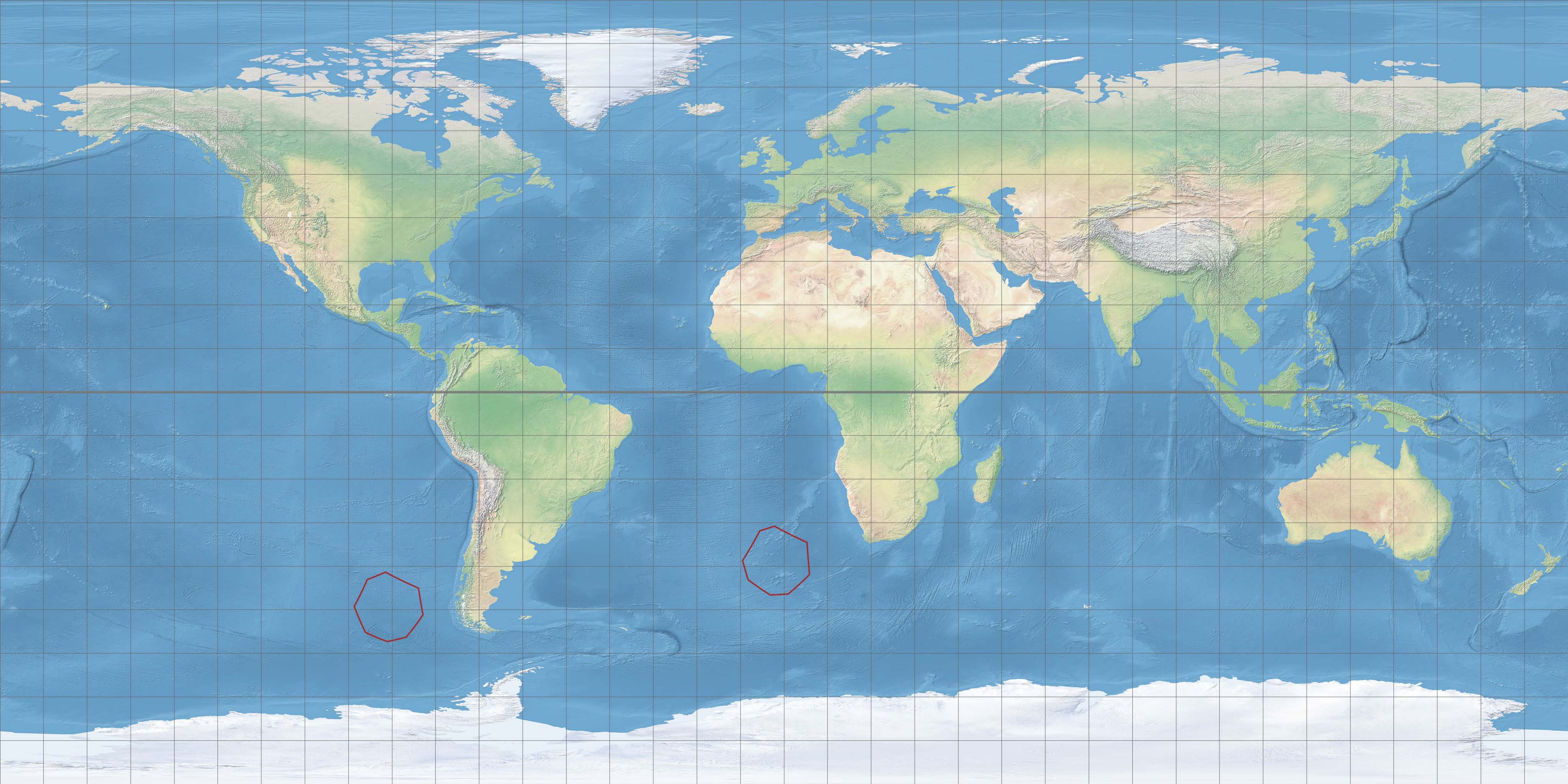


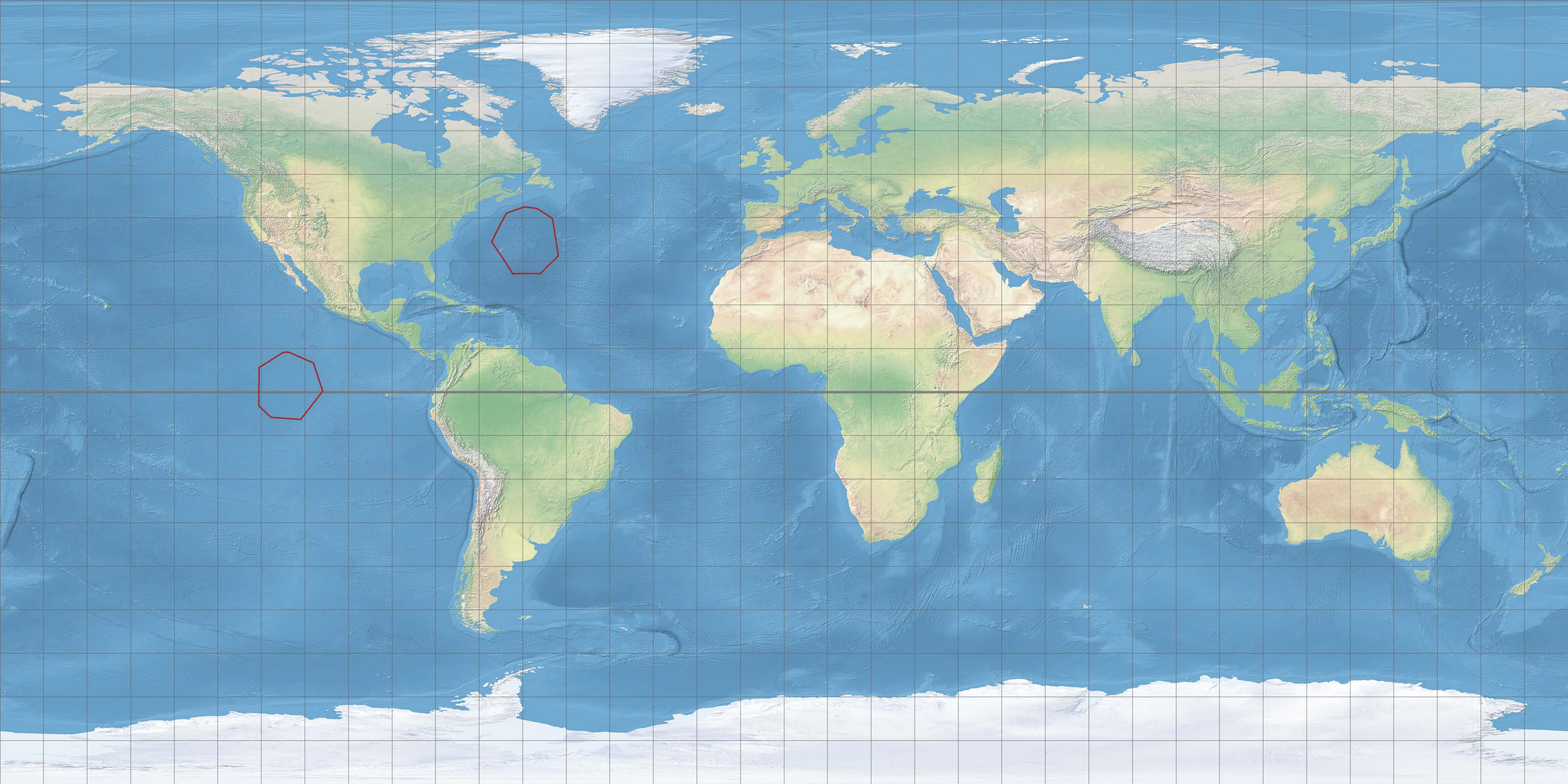


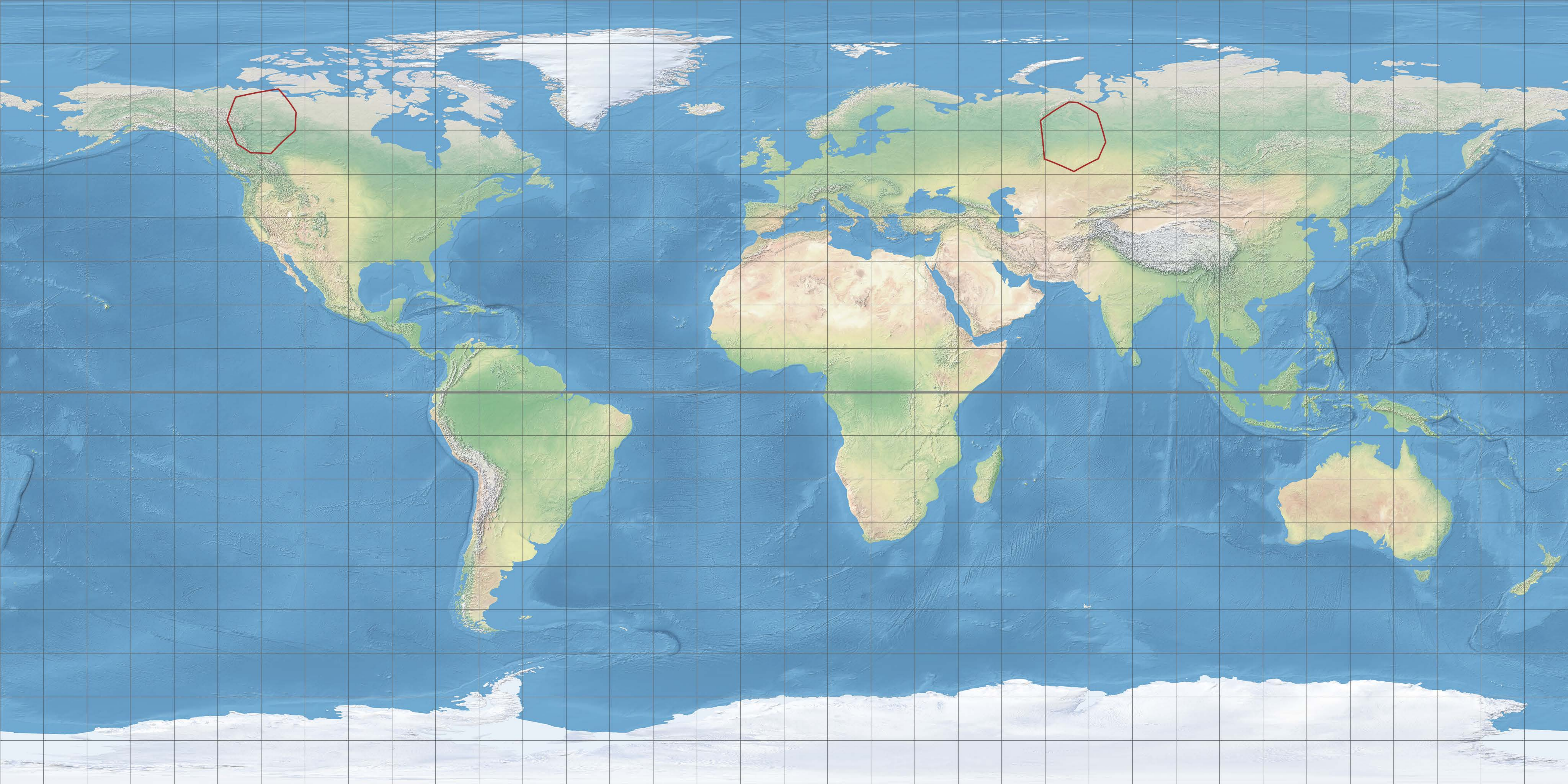


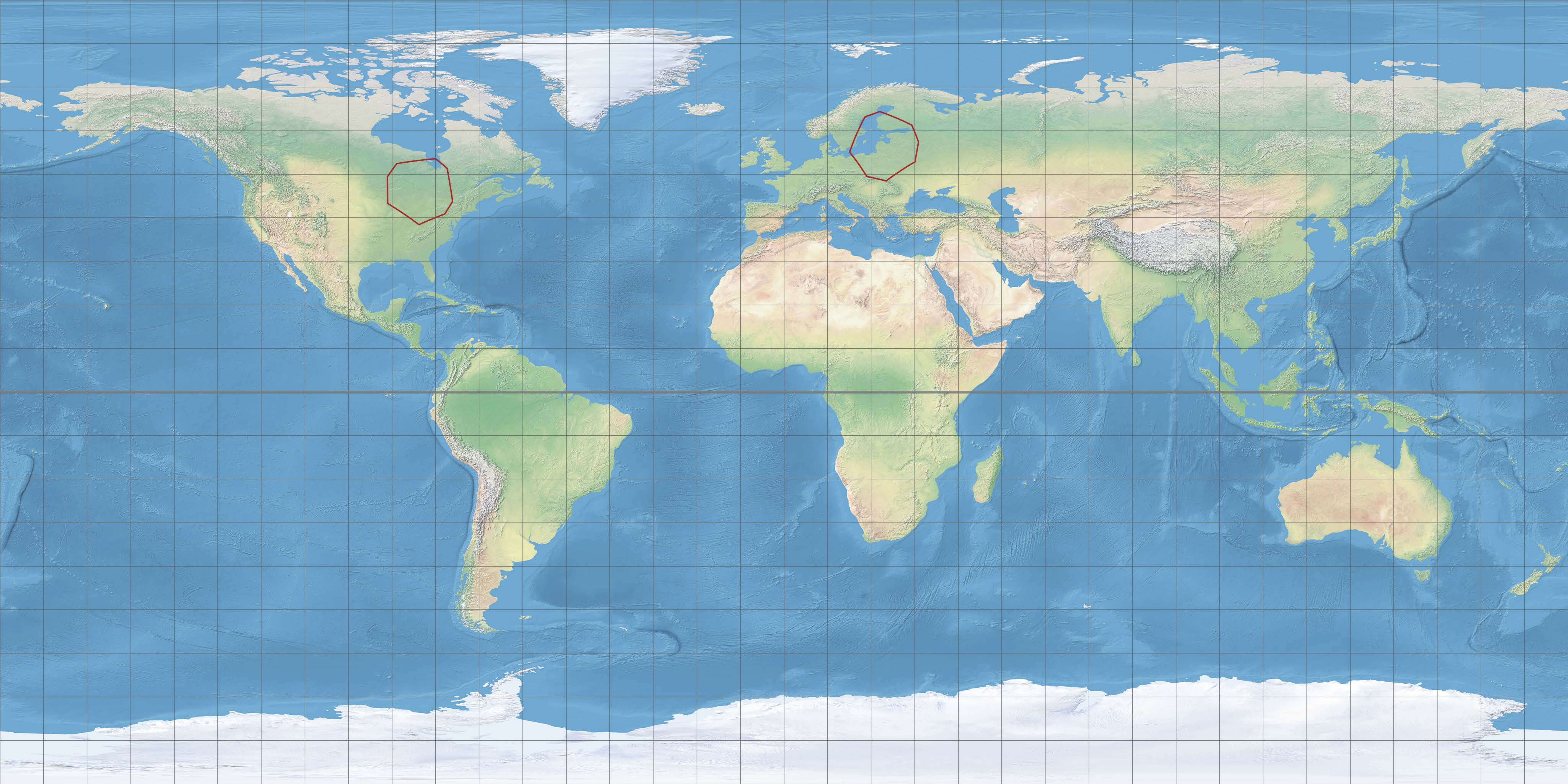


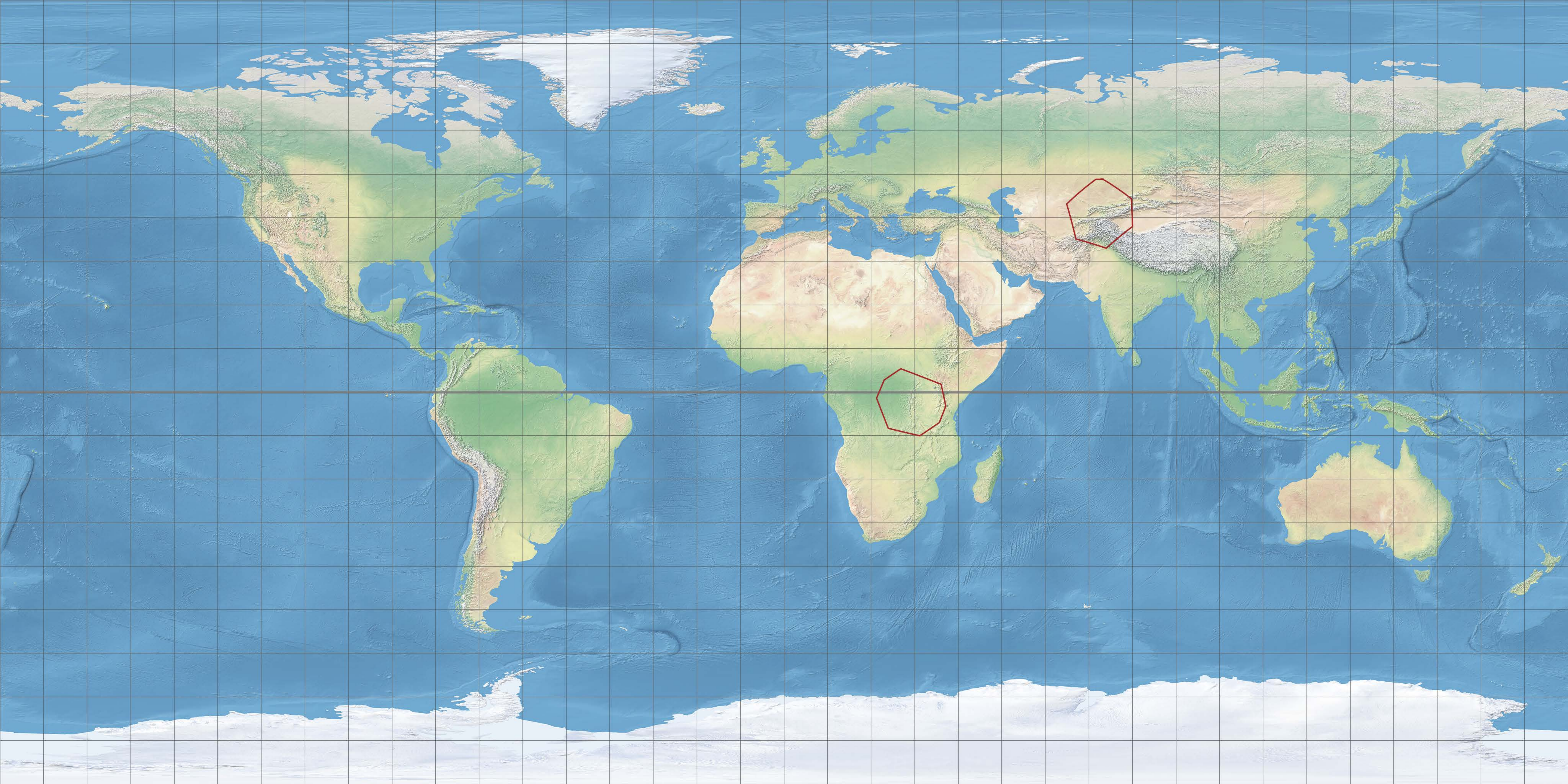


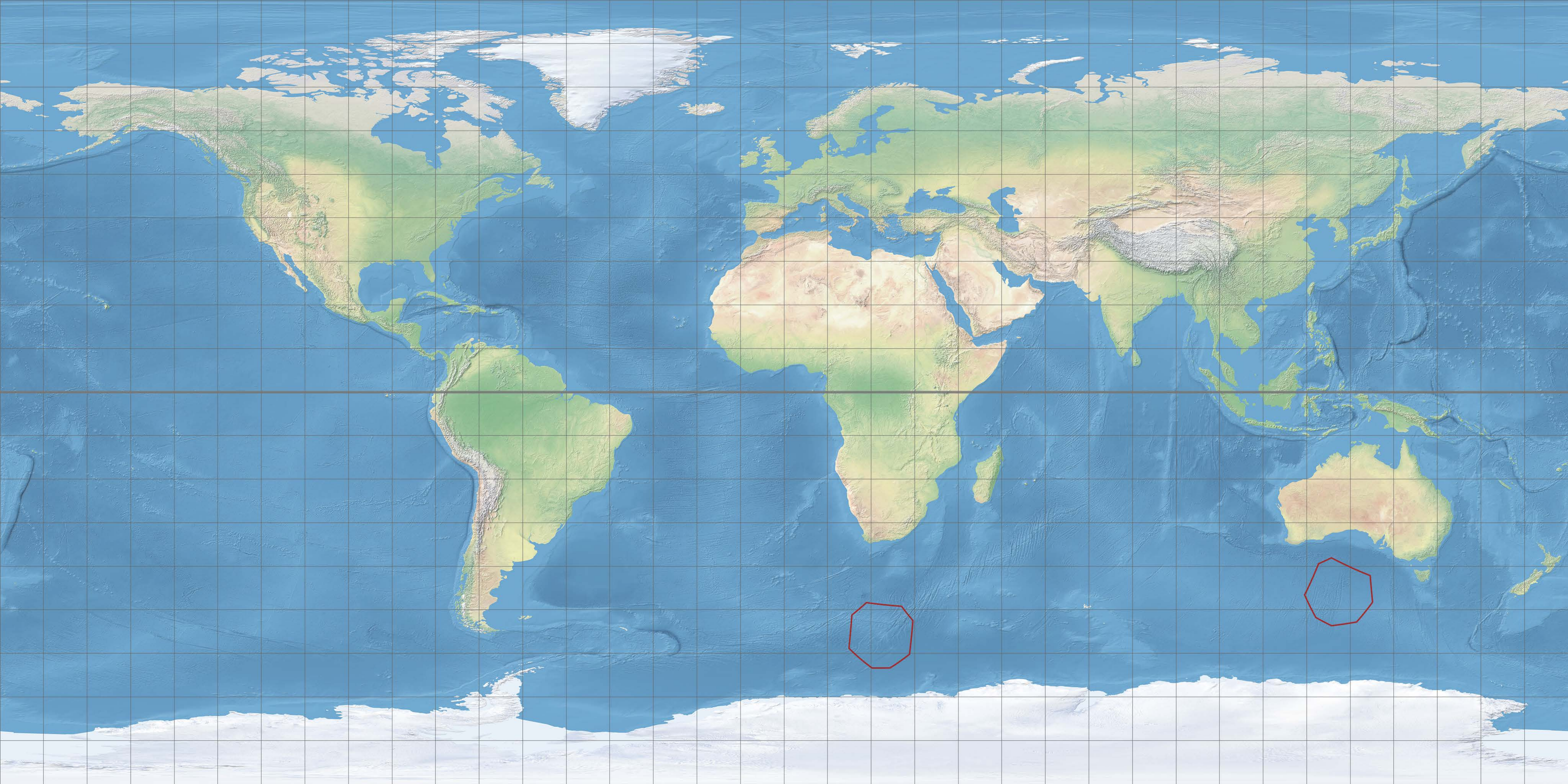


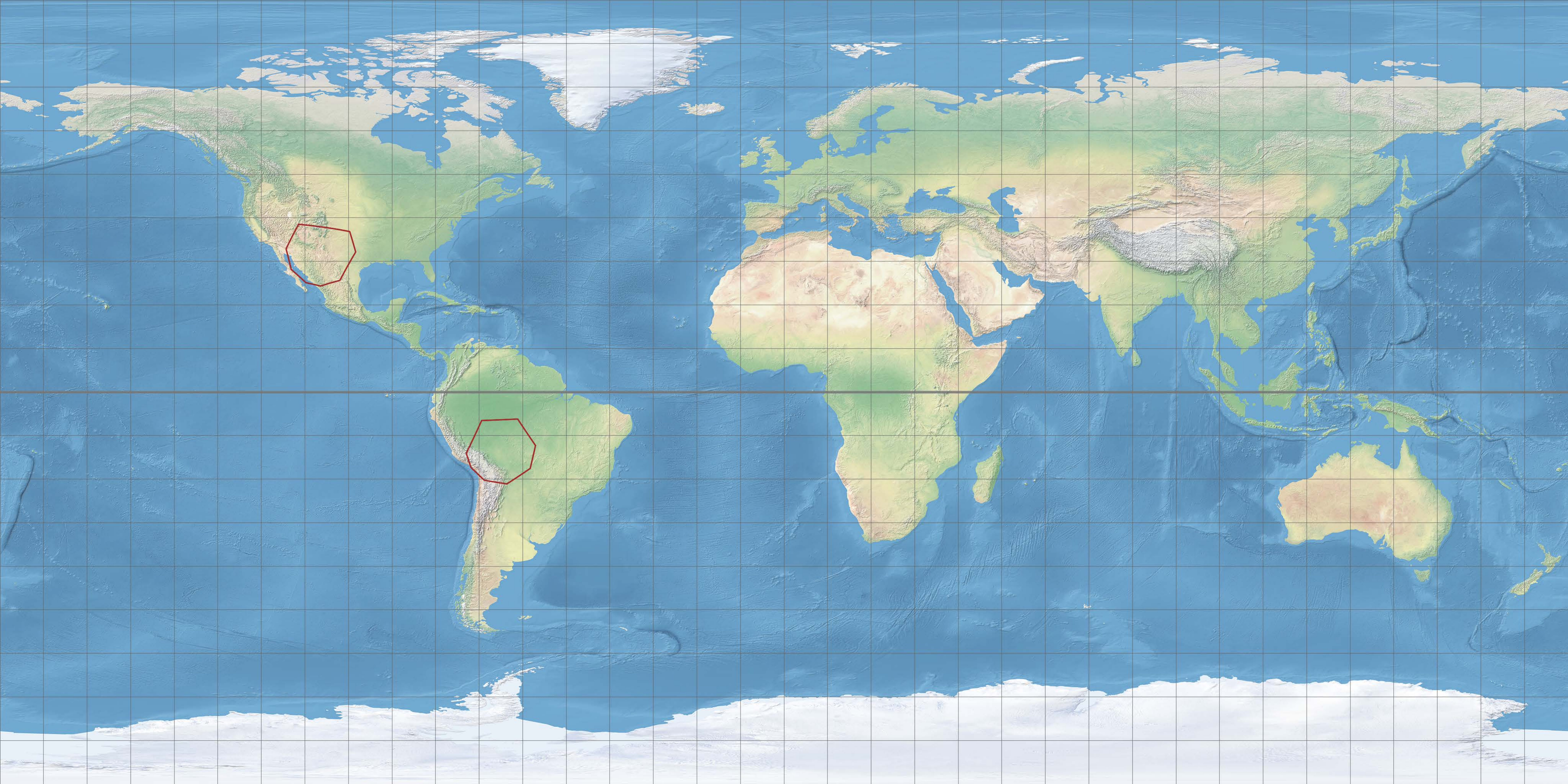




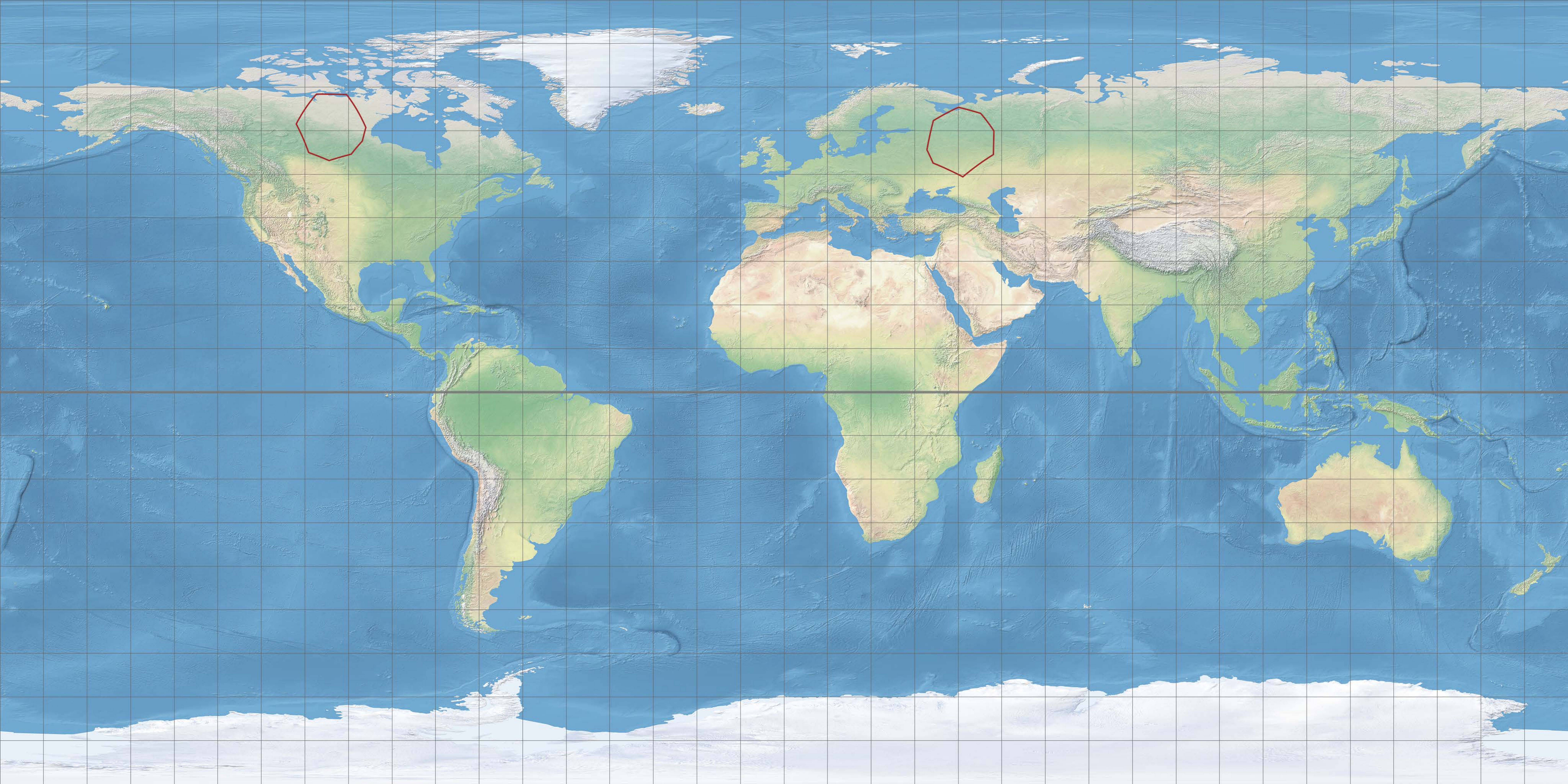


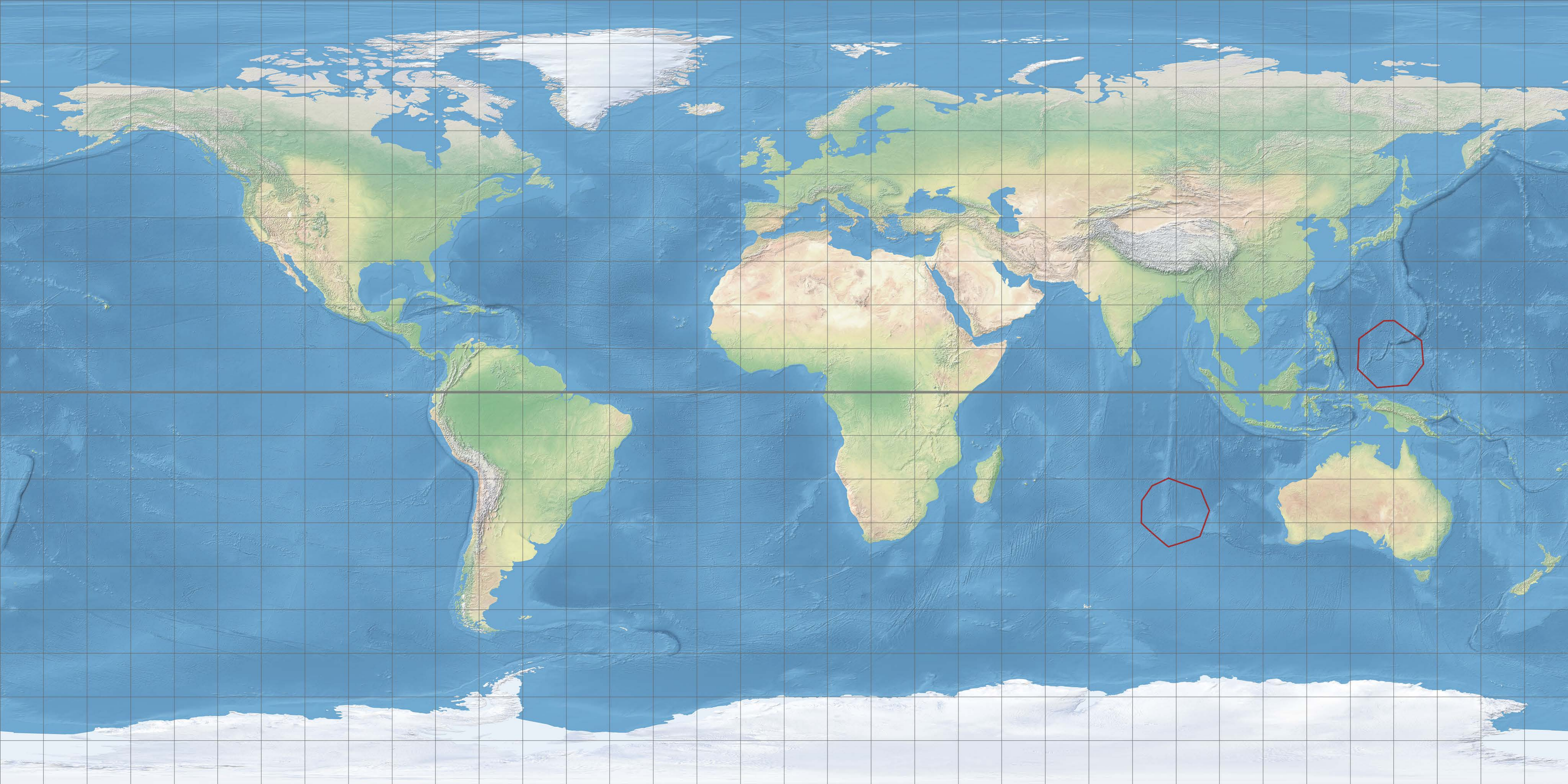


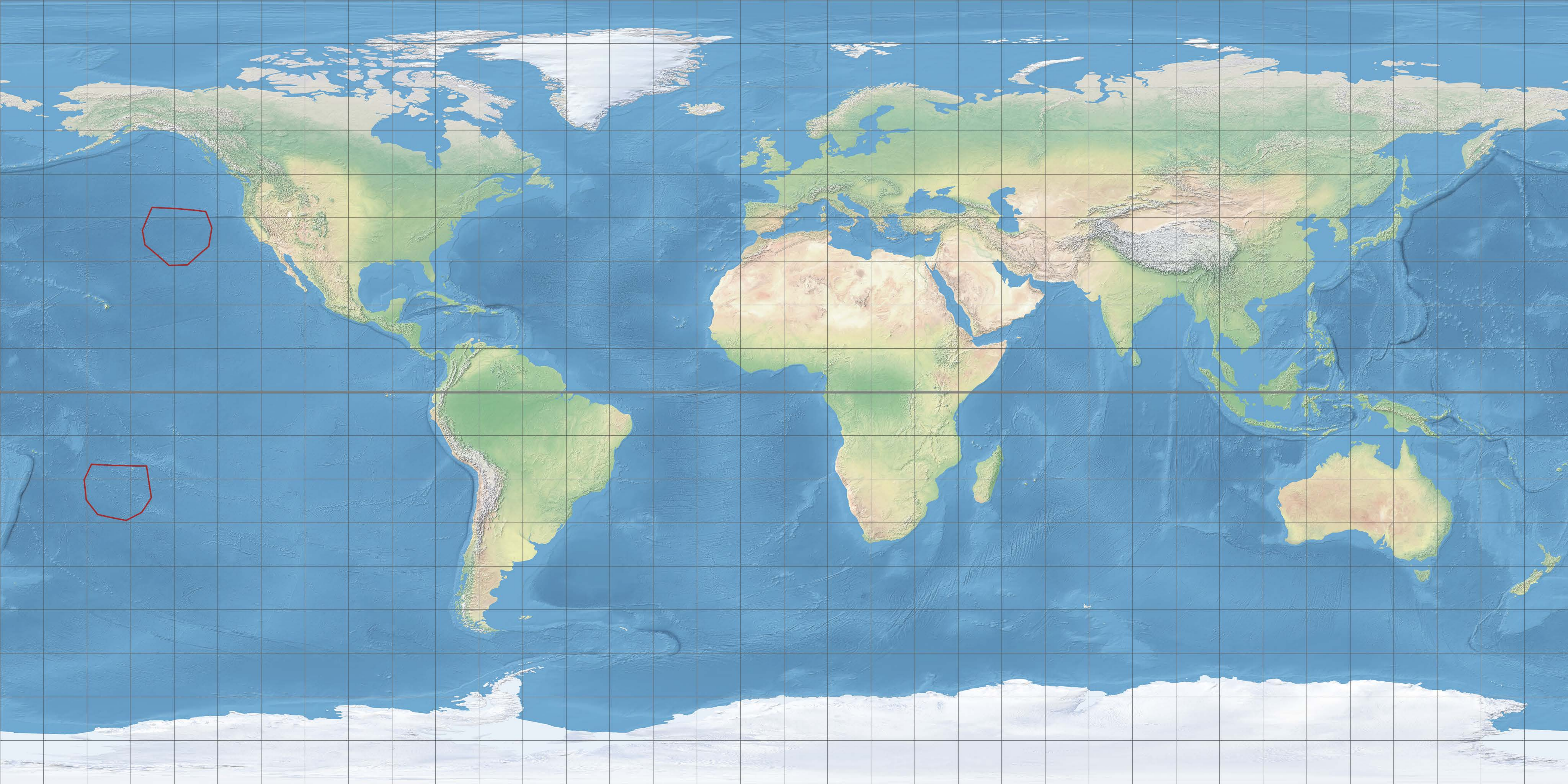


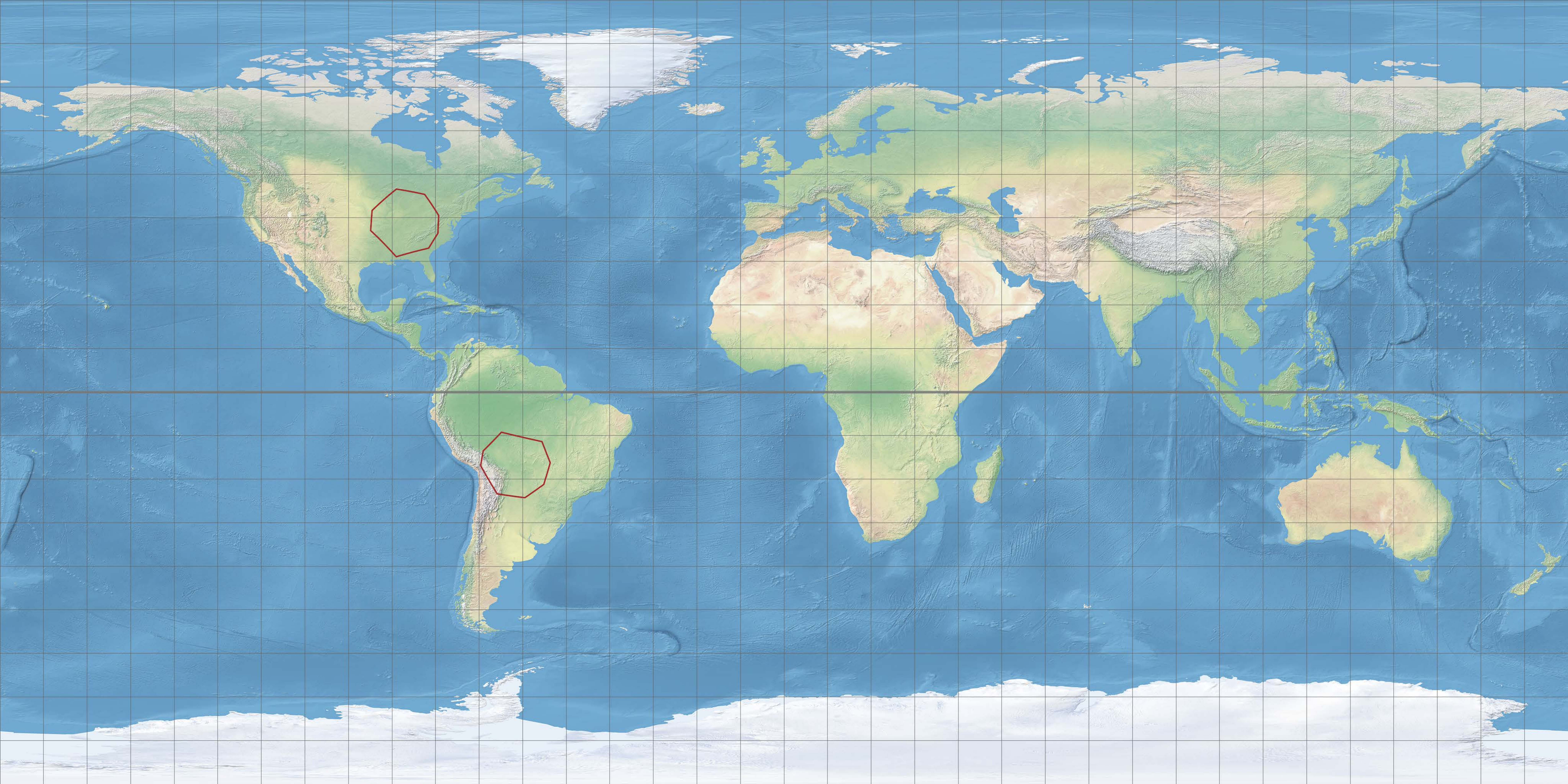


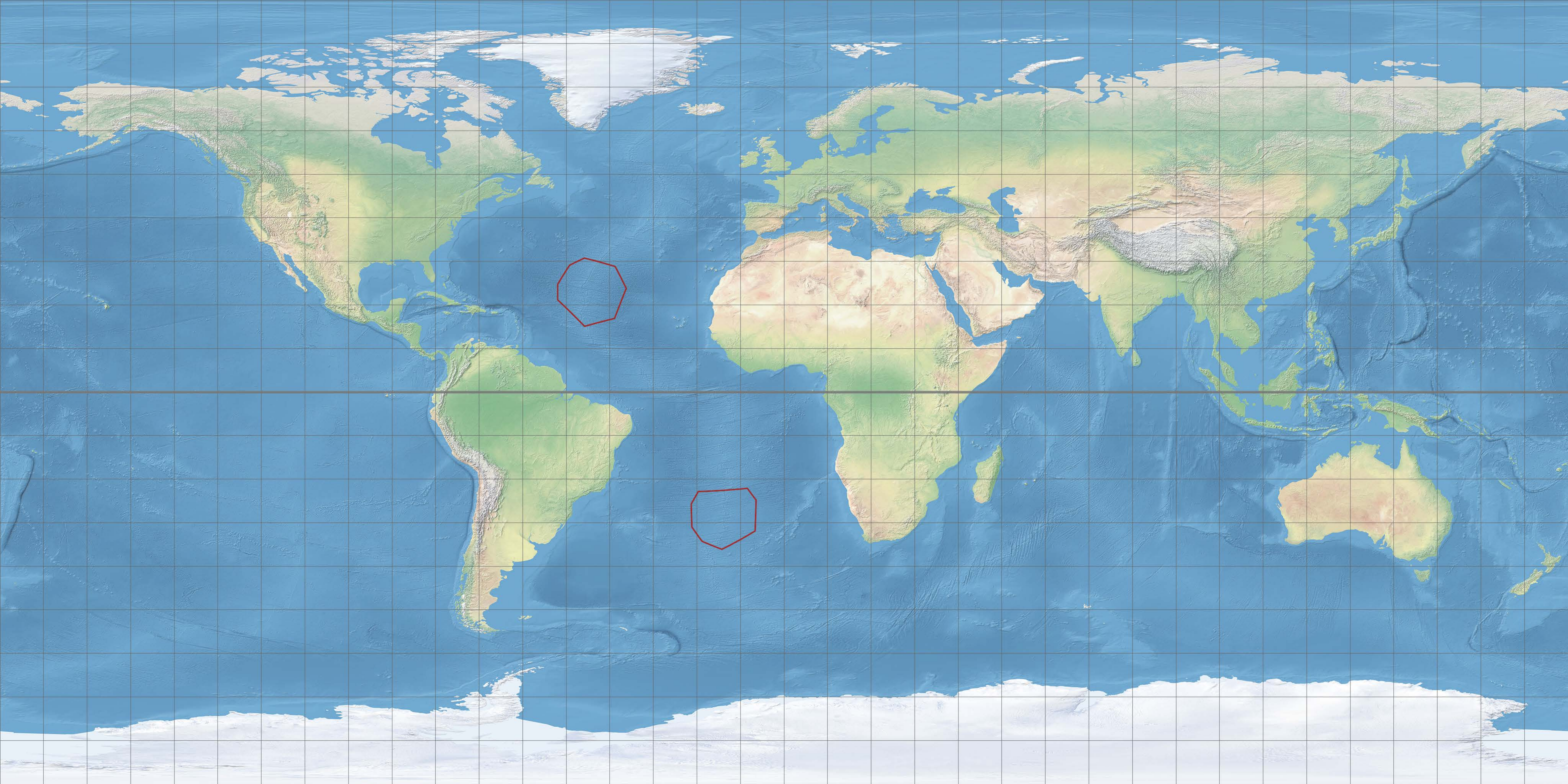
Area comparison
Small variation condition

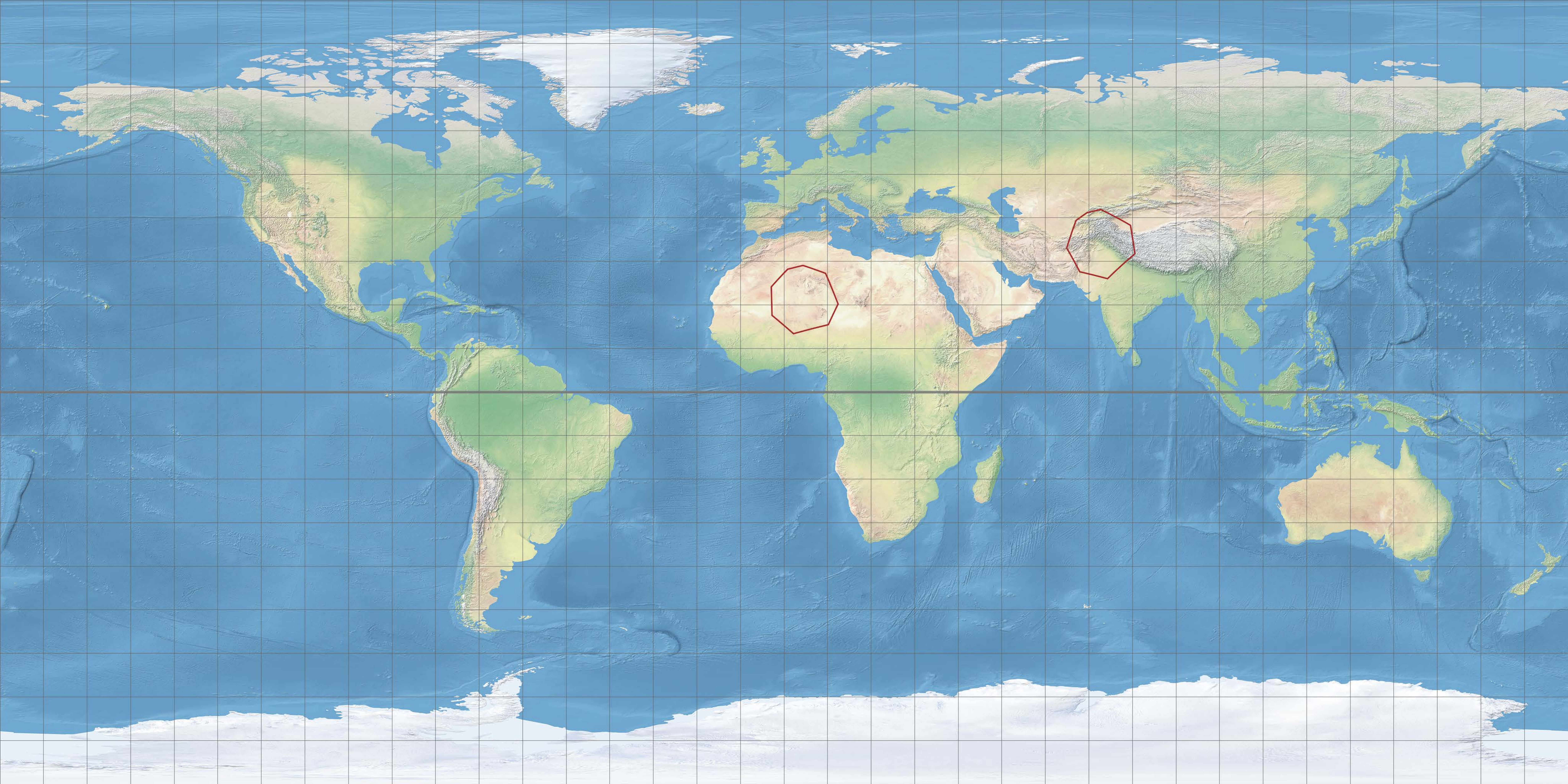


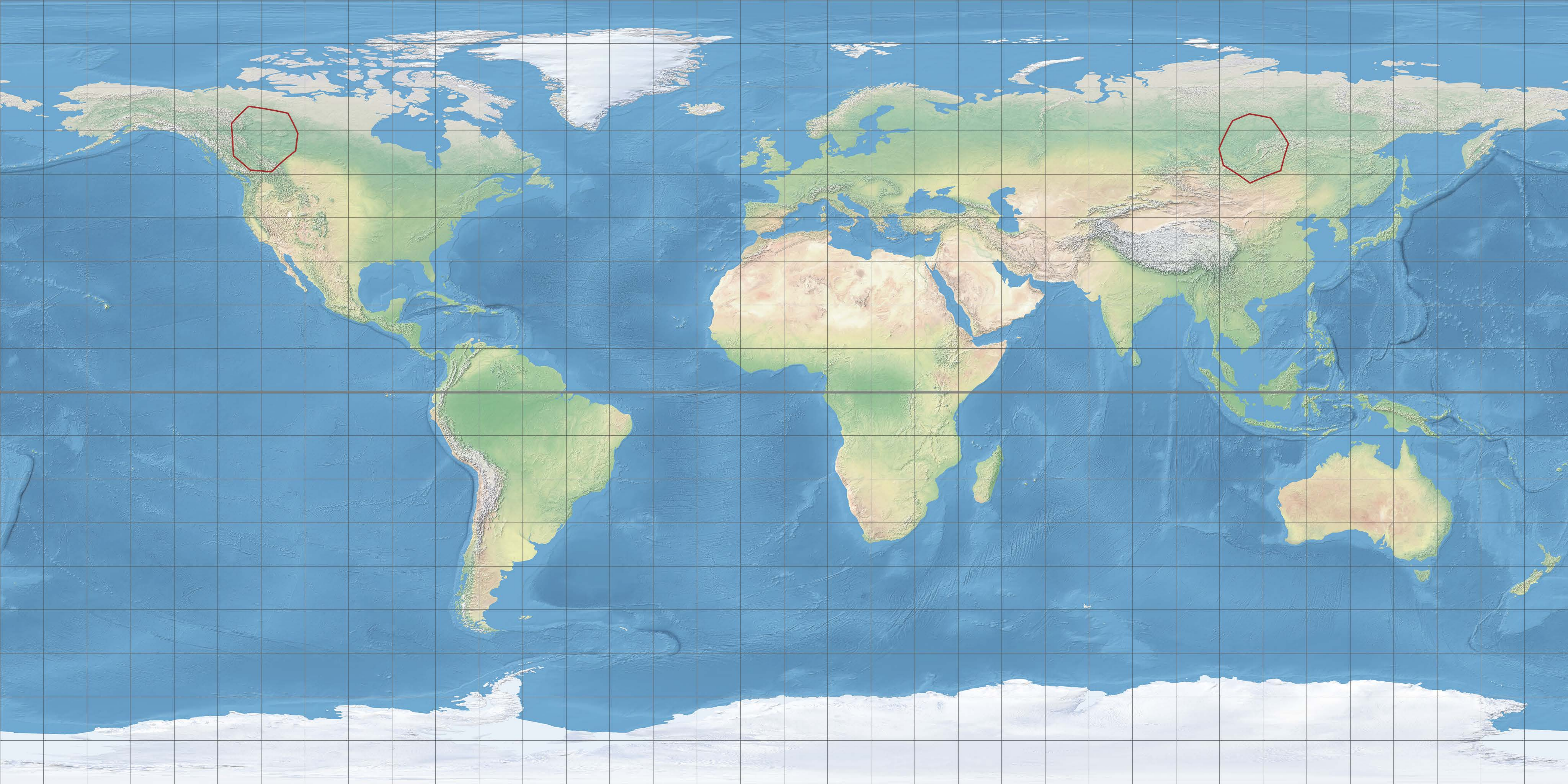


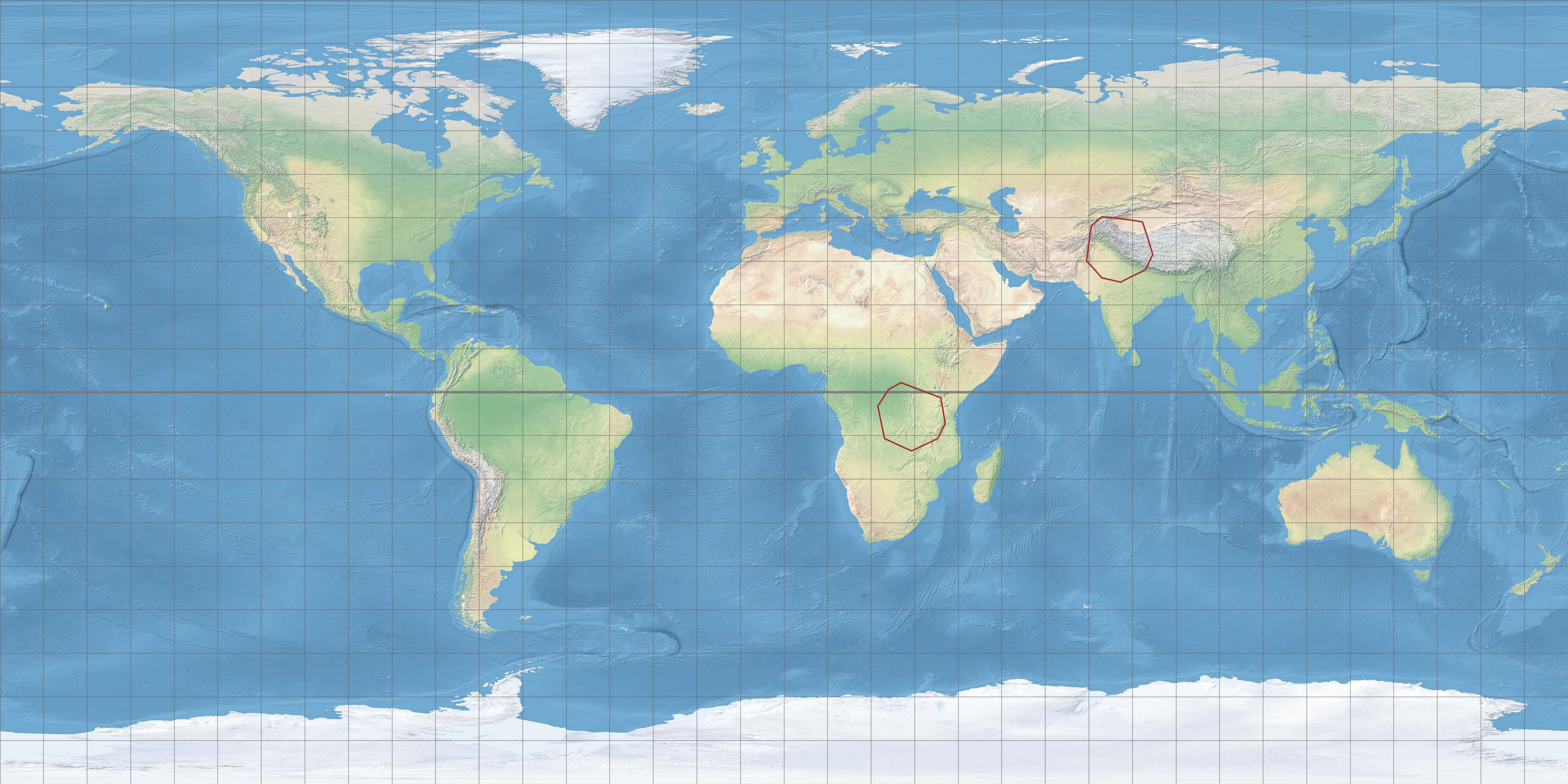


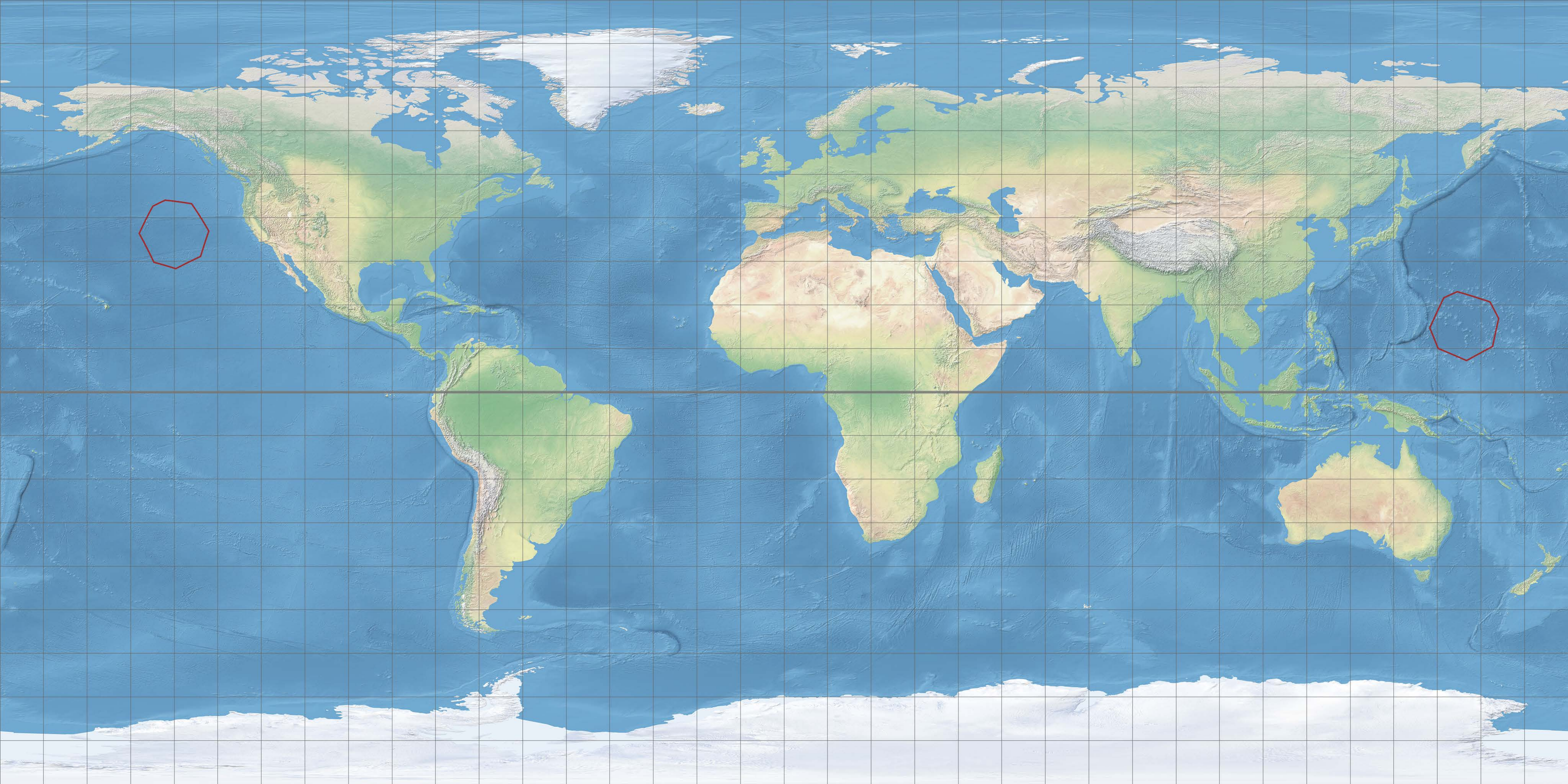


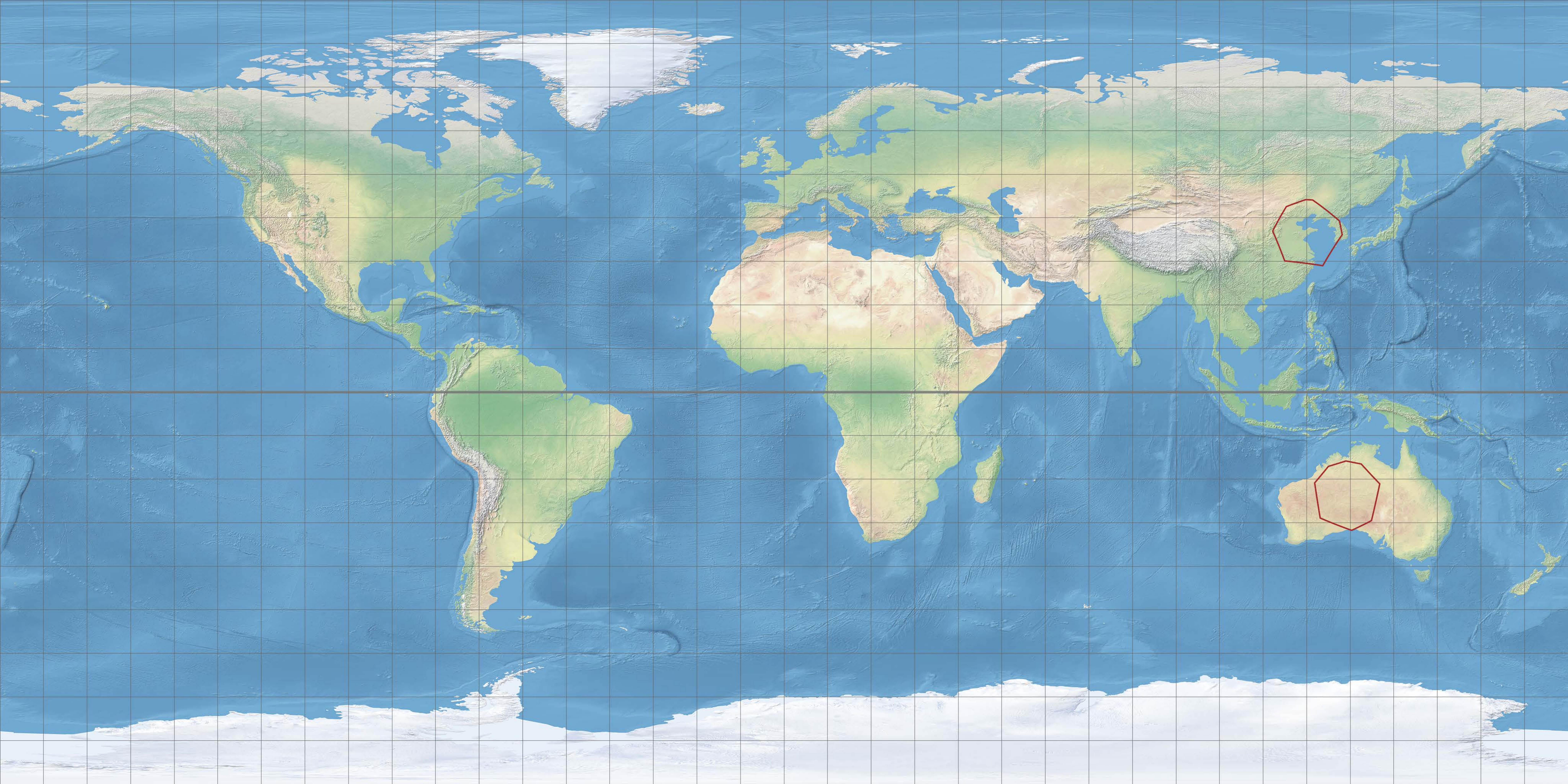


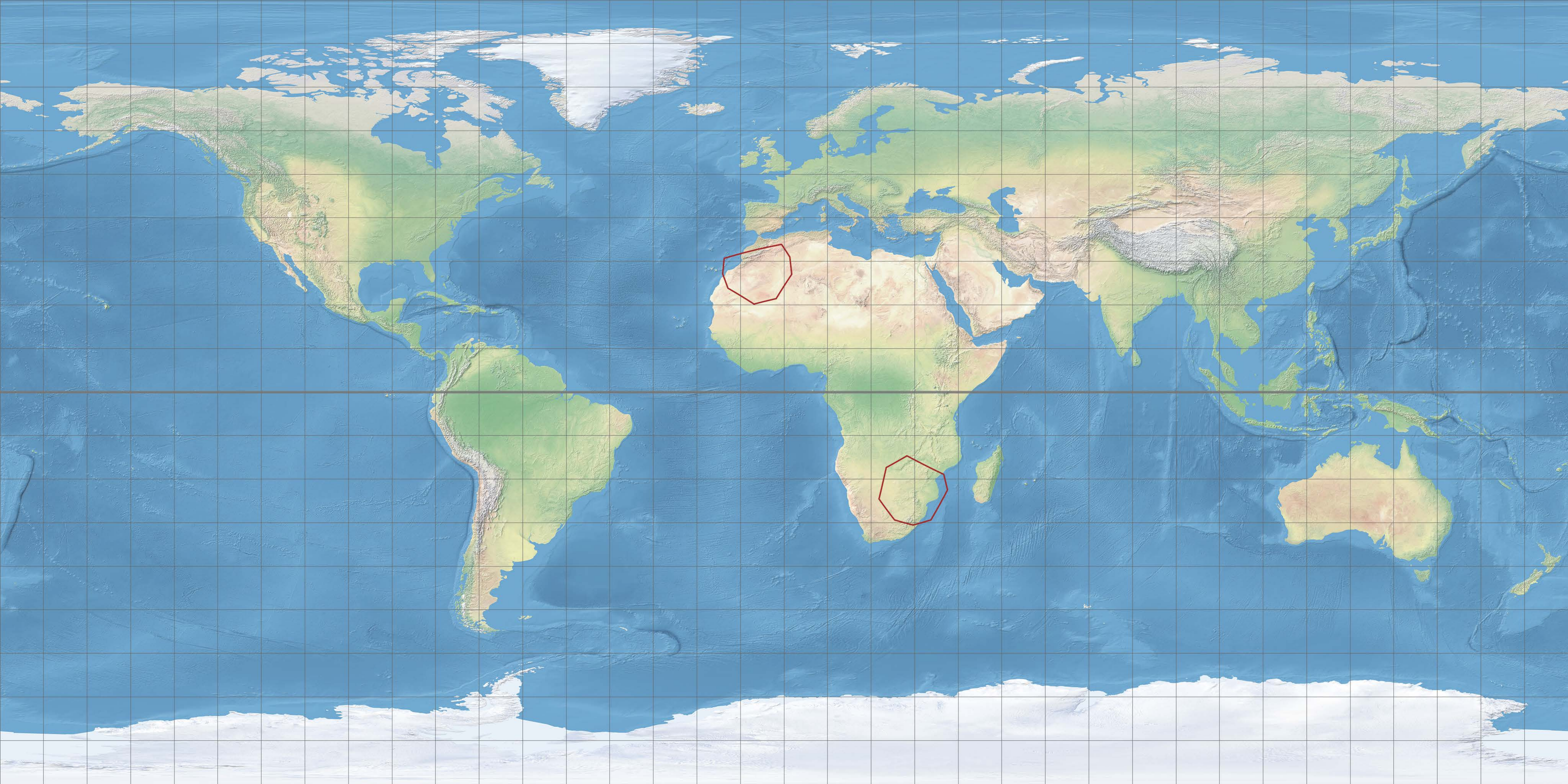


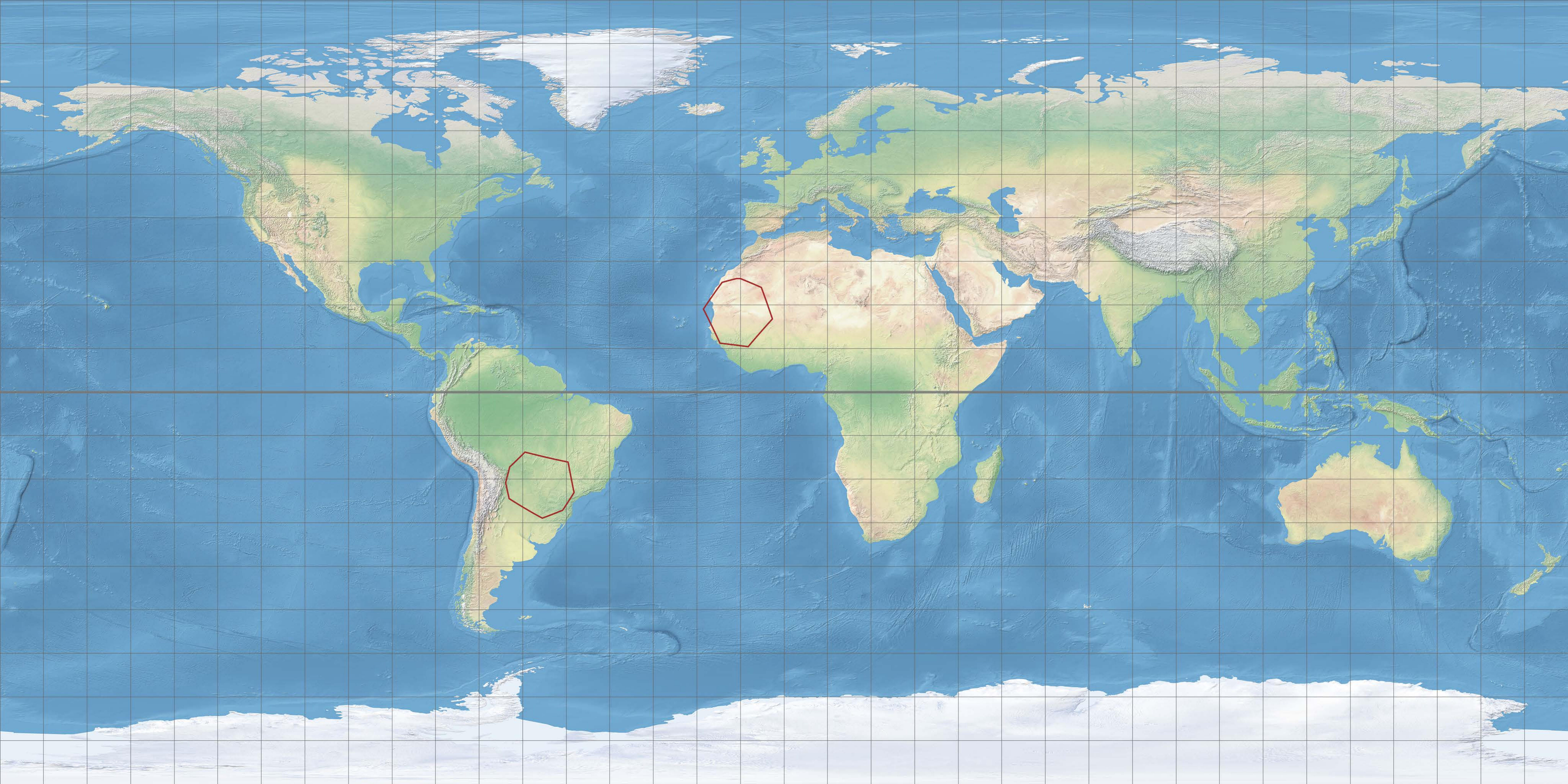




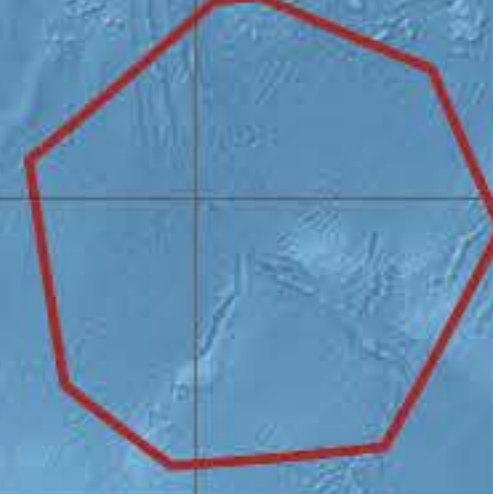
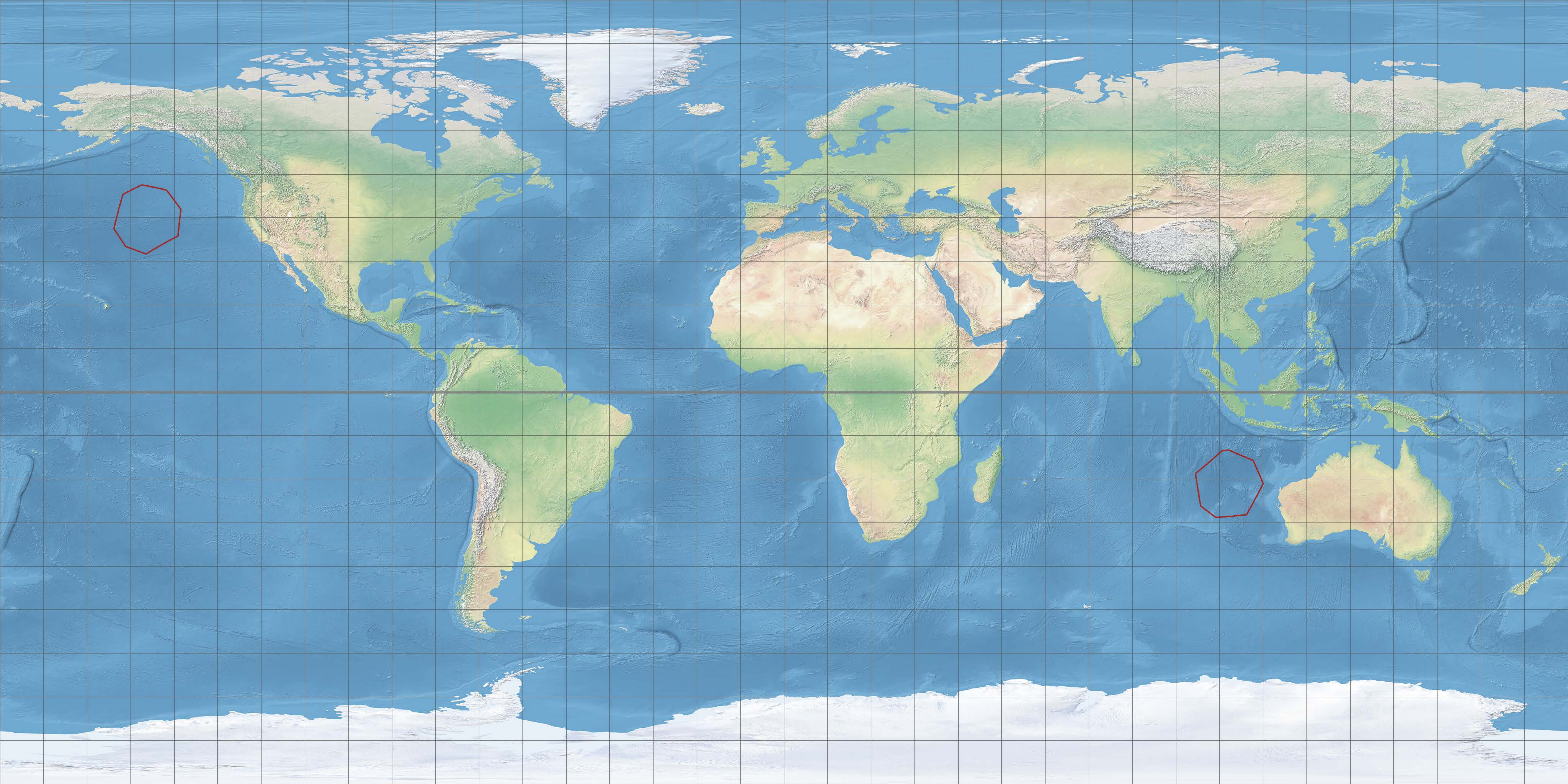


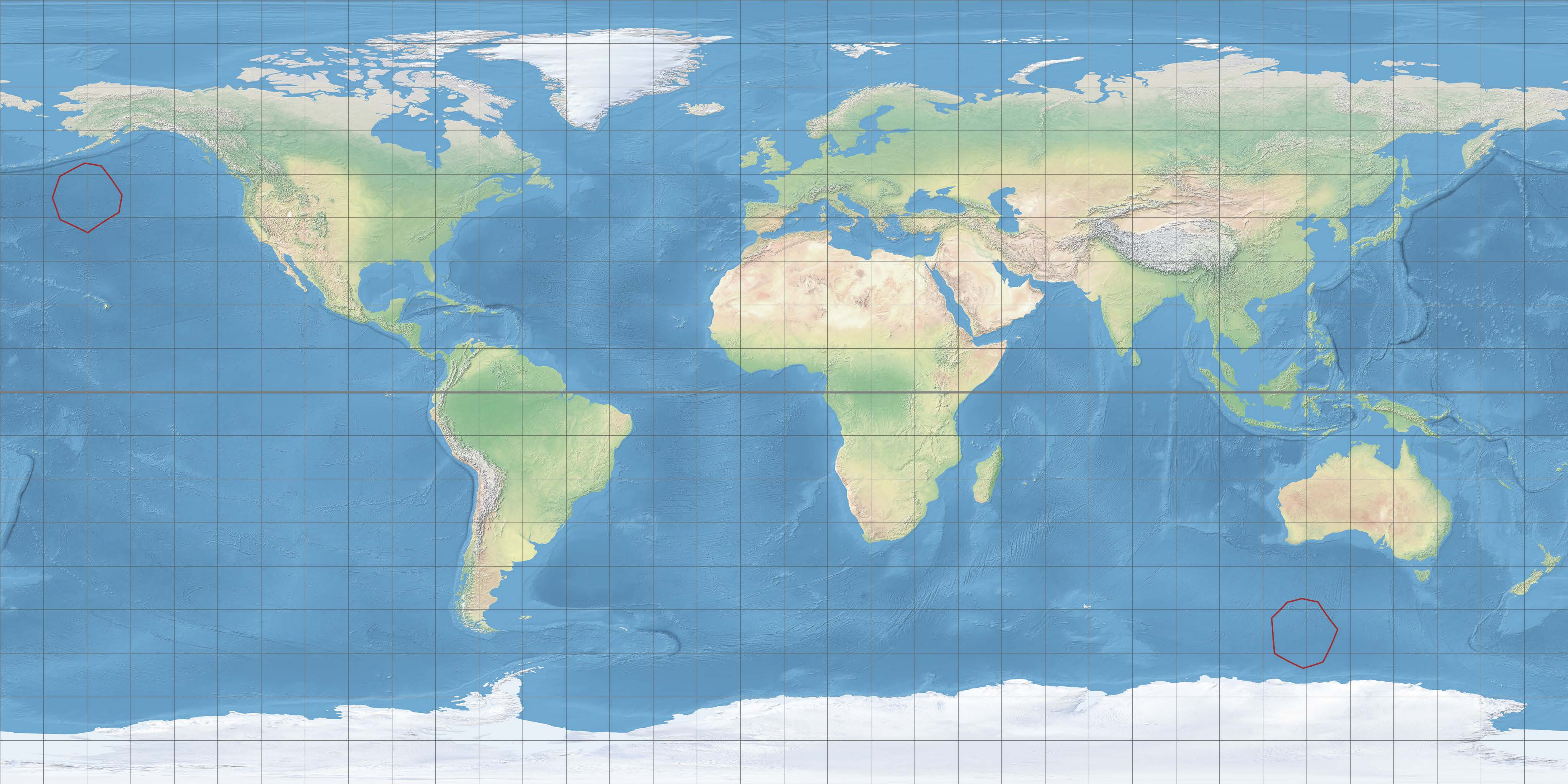


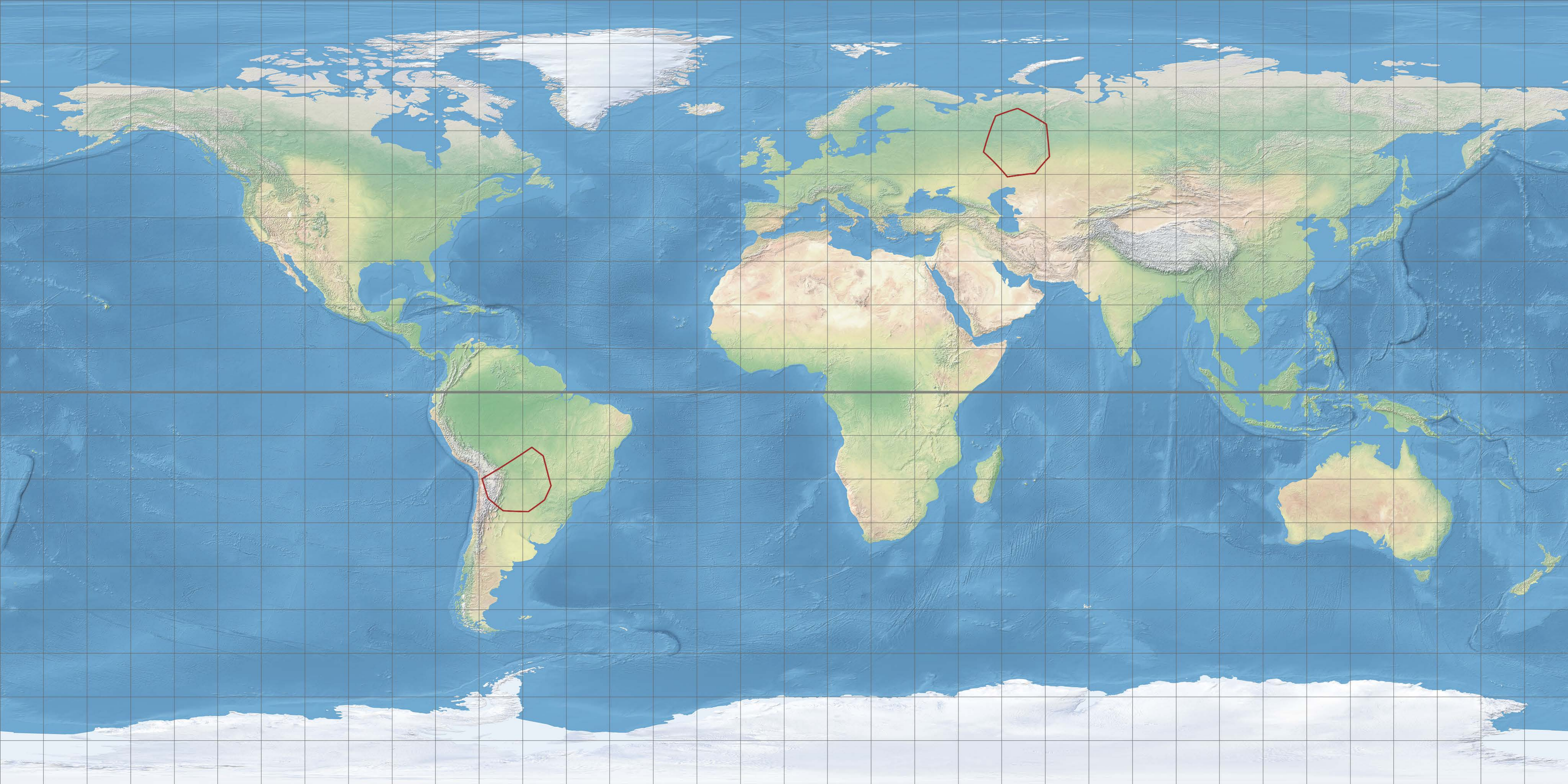


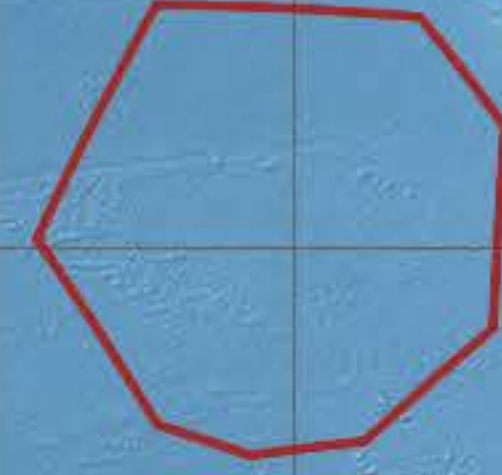
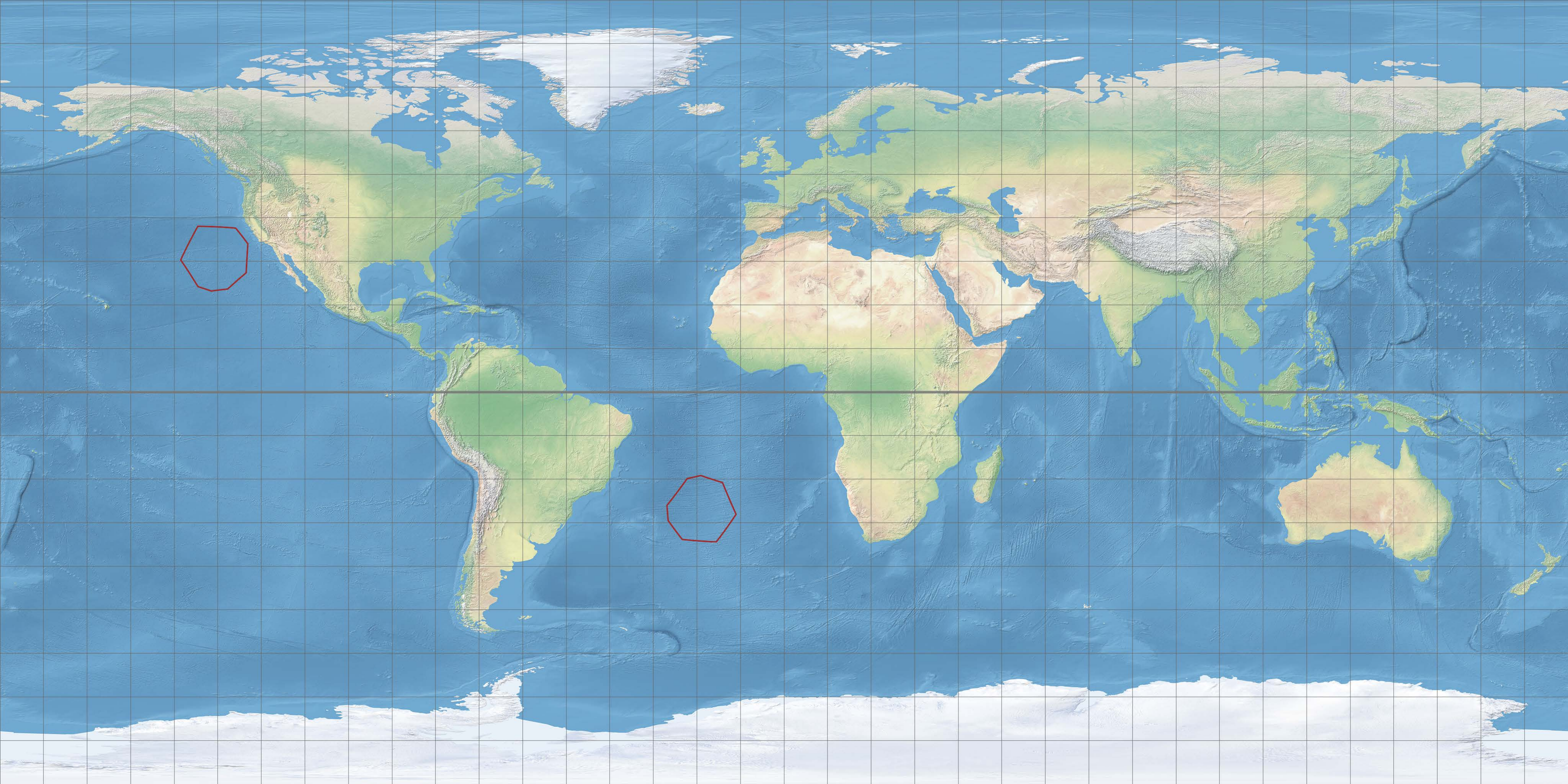


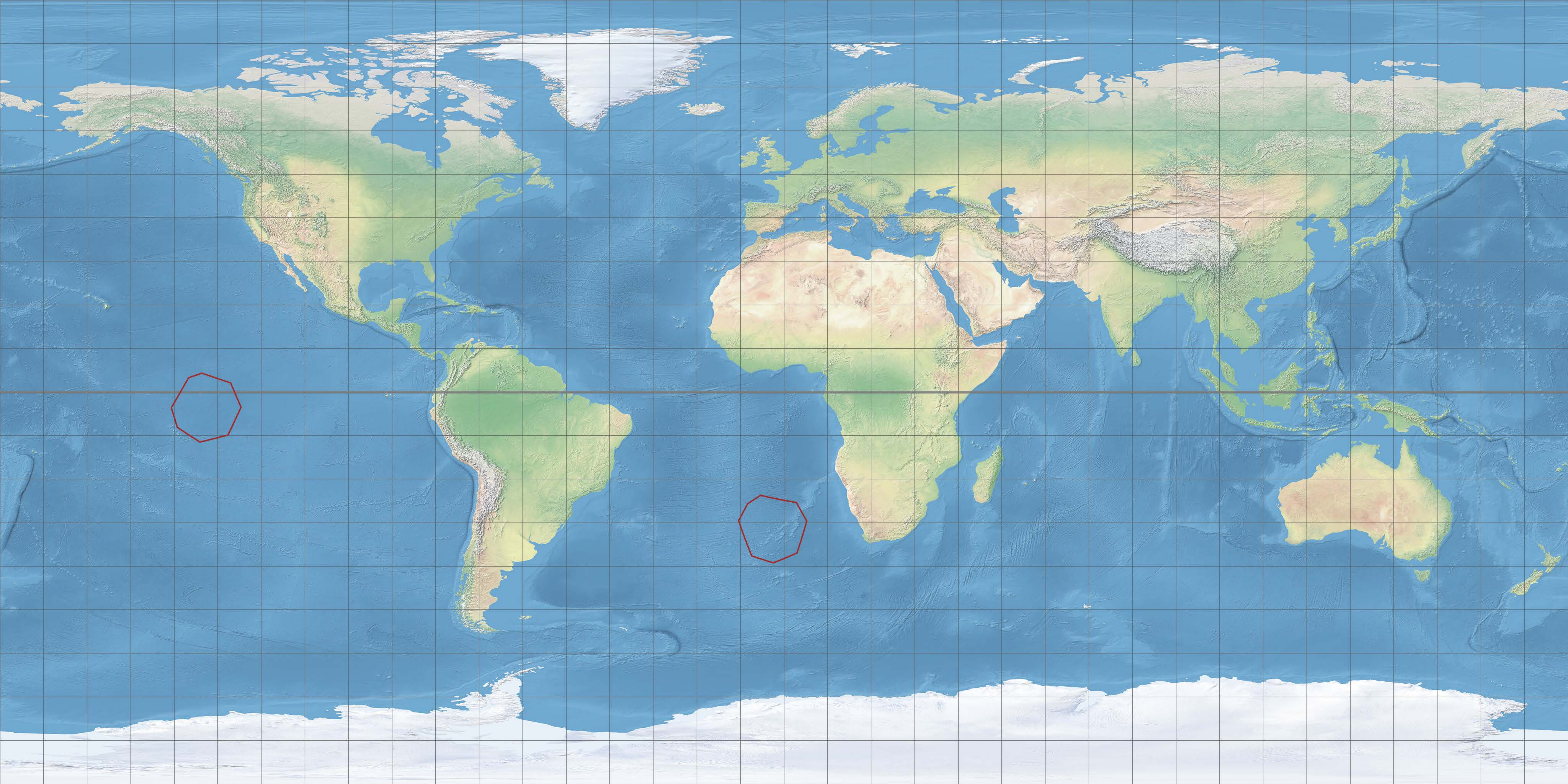
Area comparison
Far distance condition

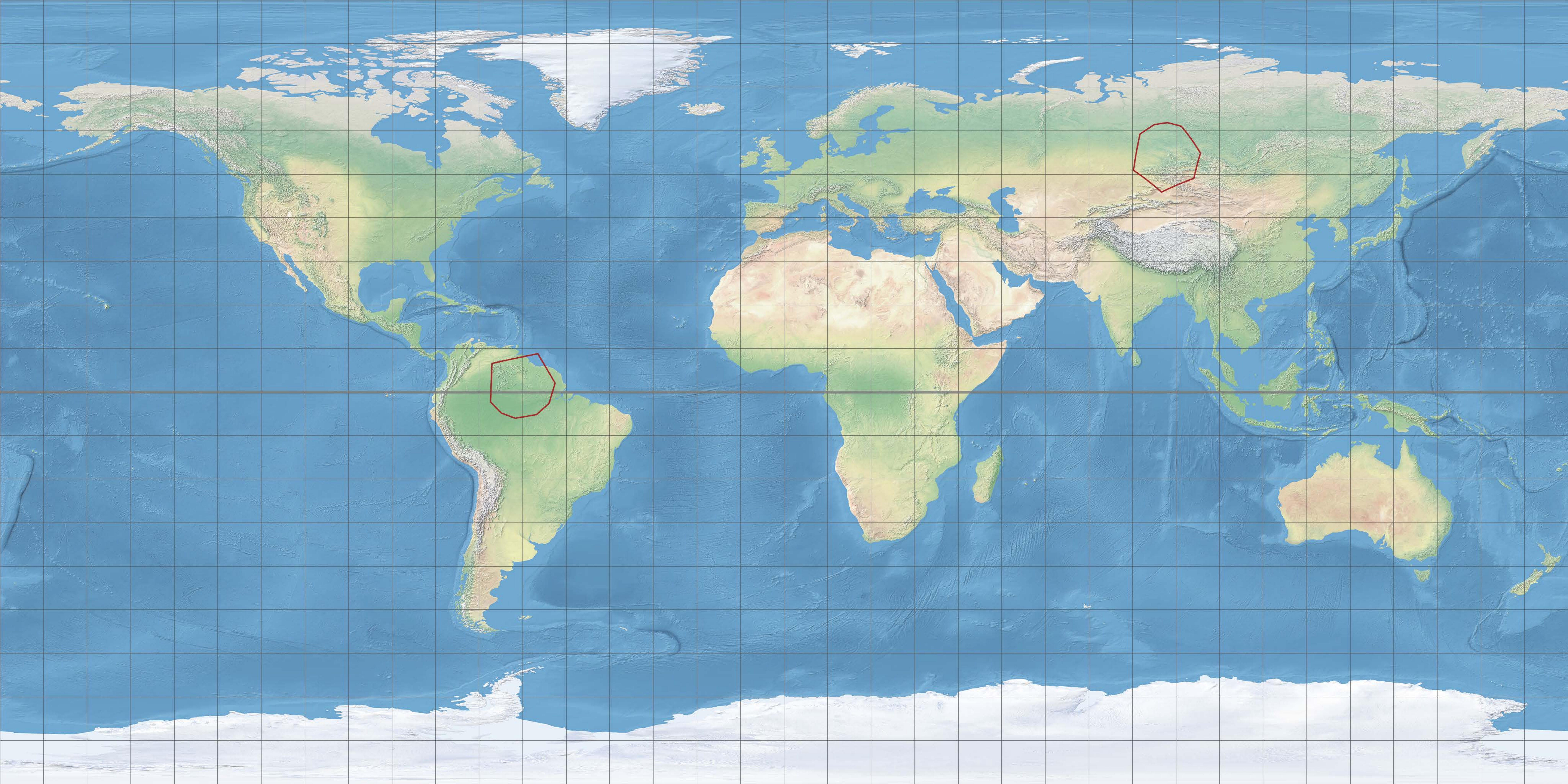


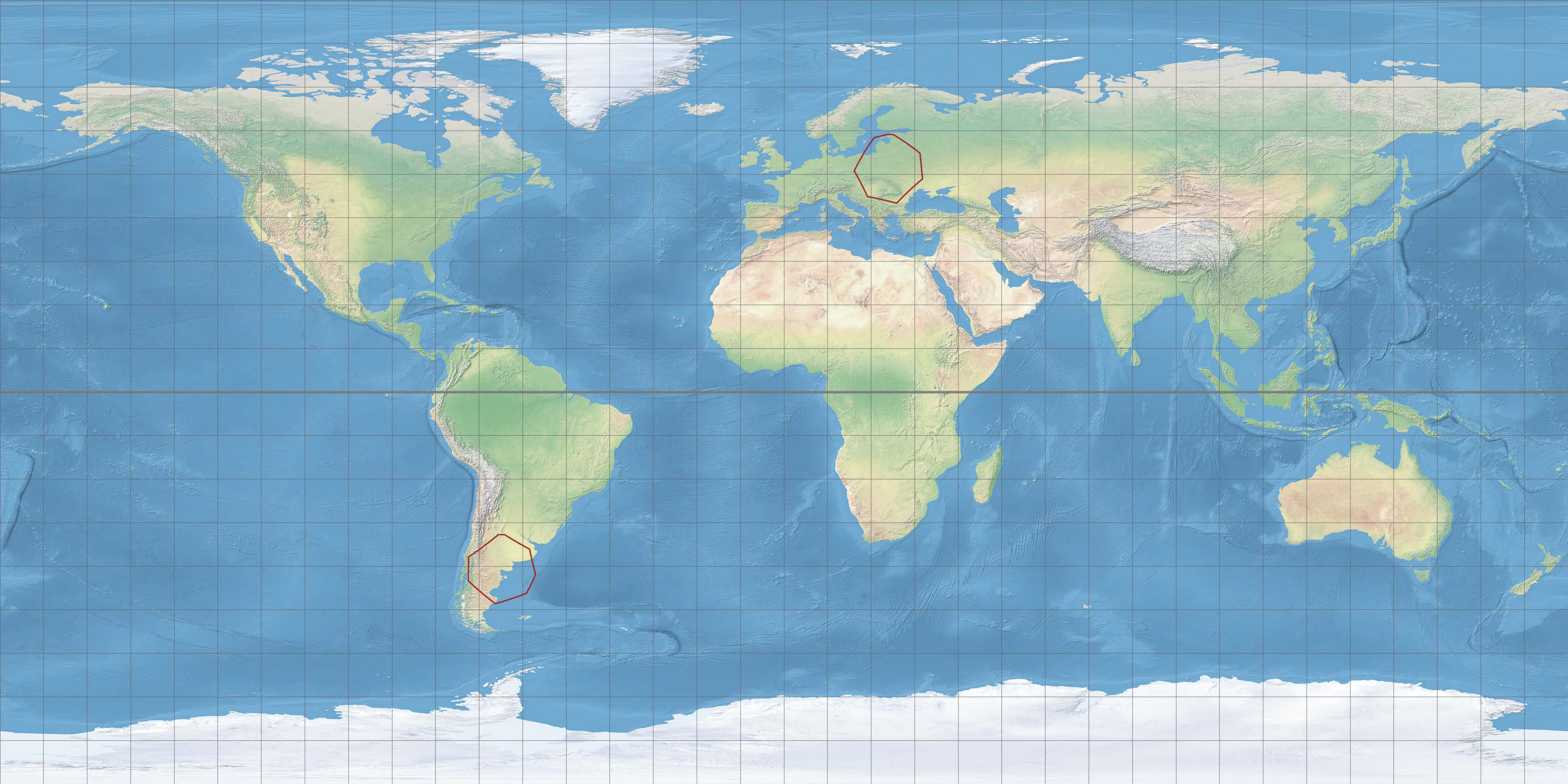


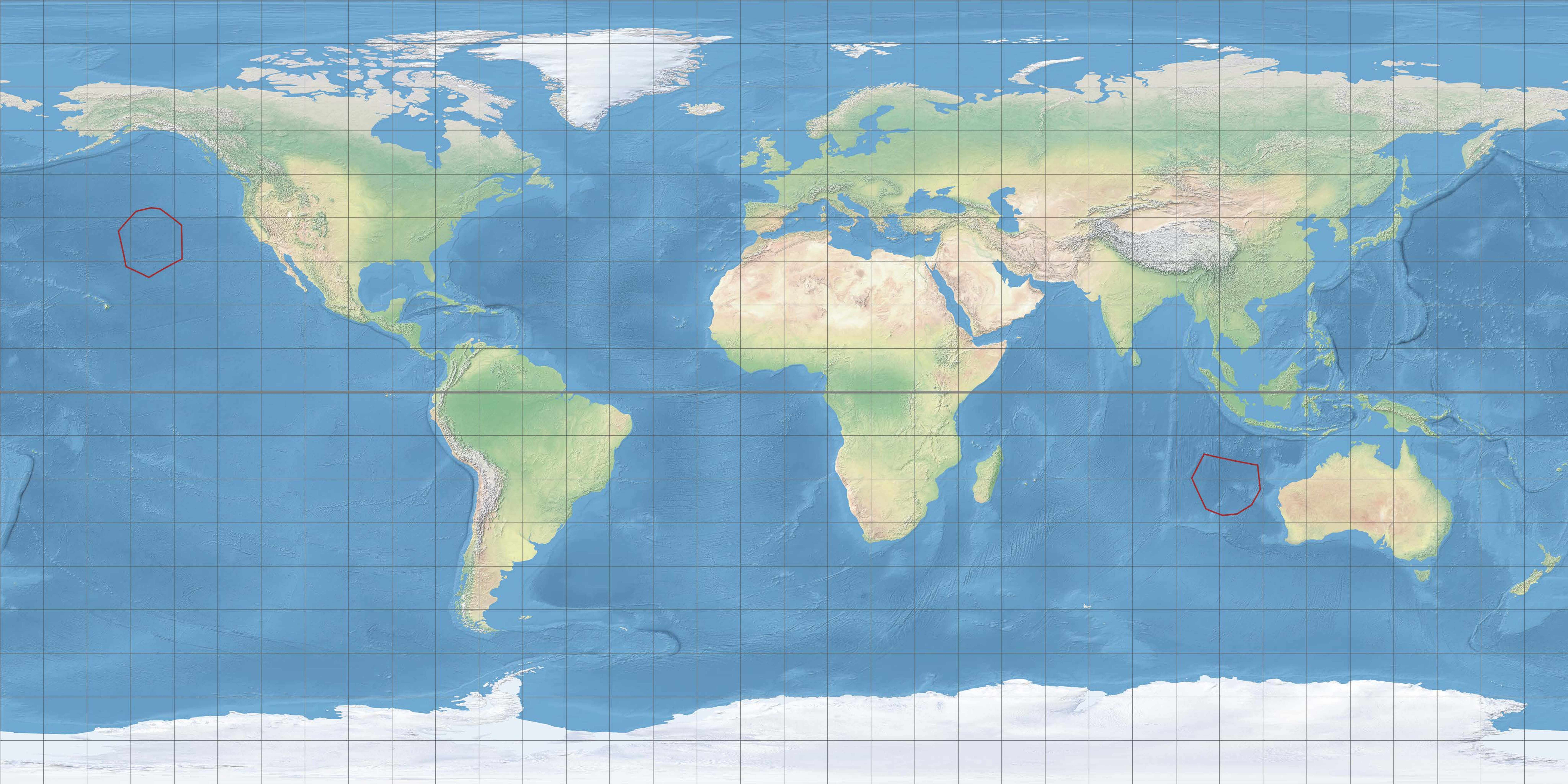


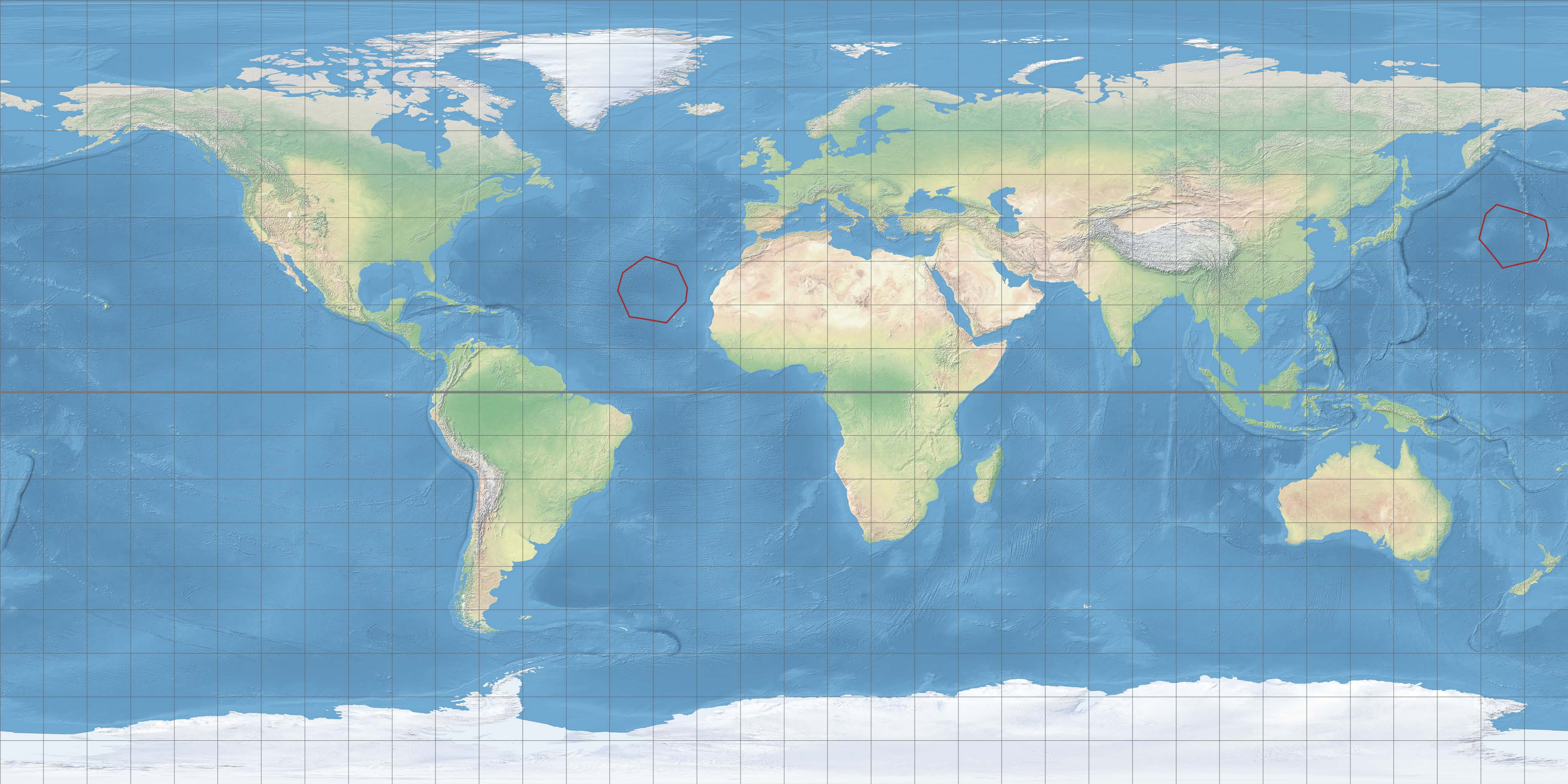


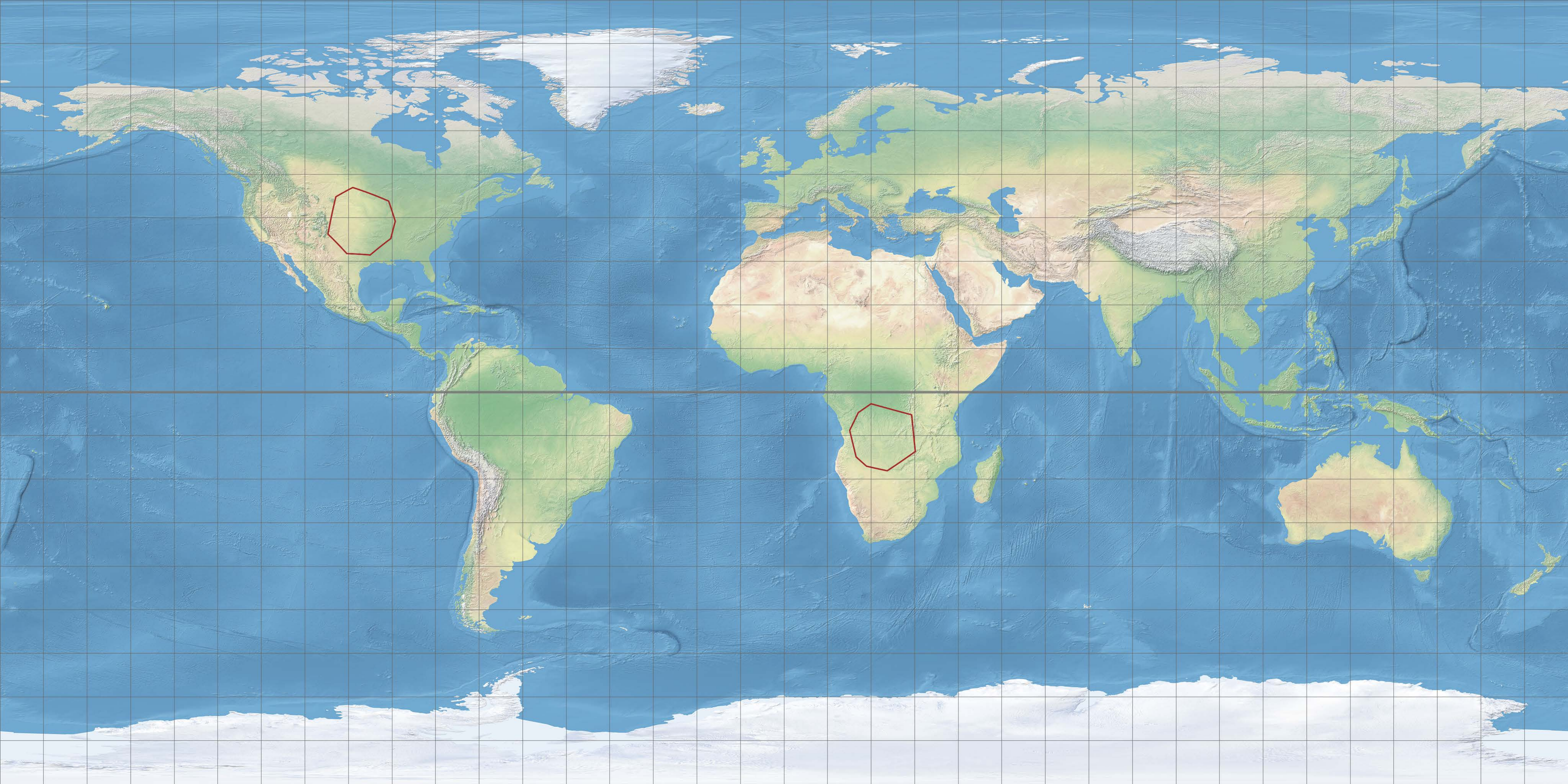


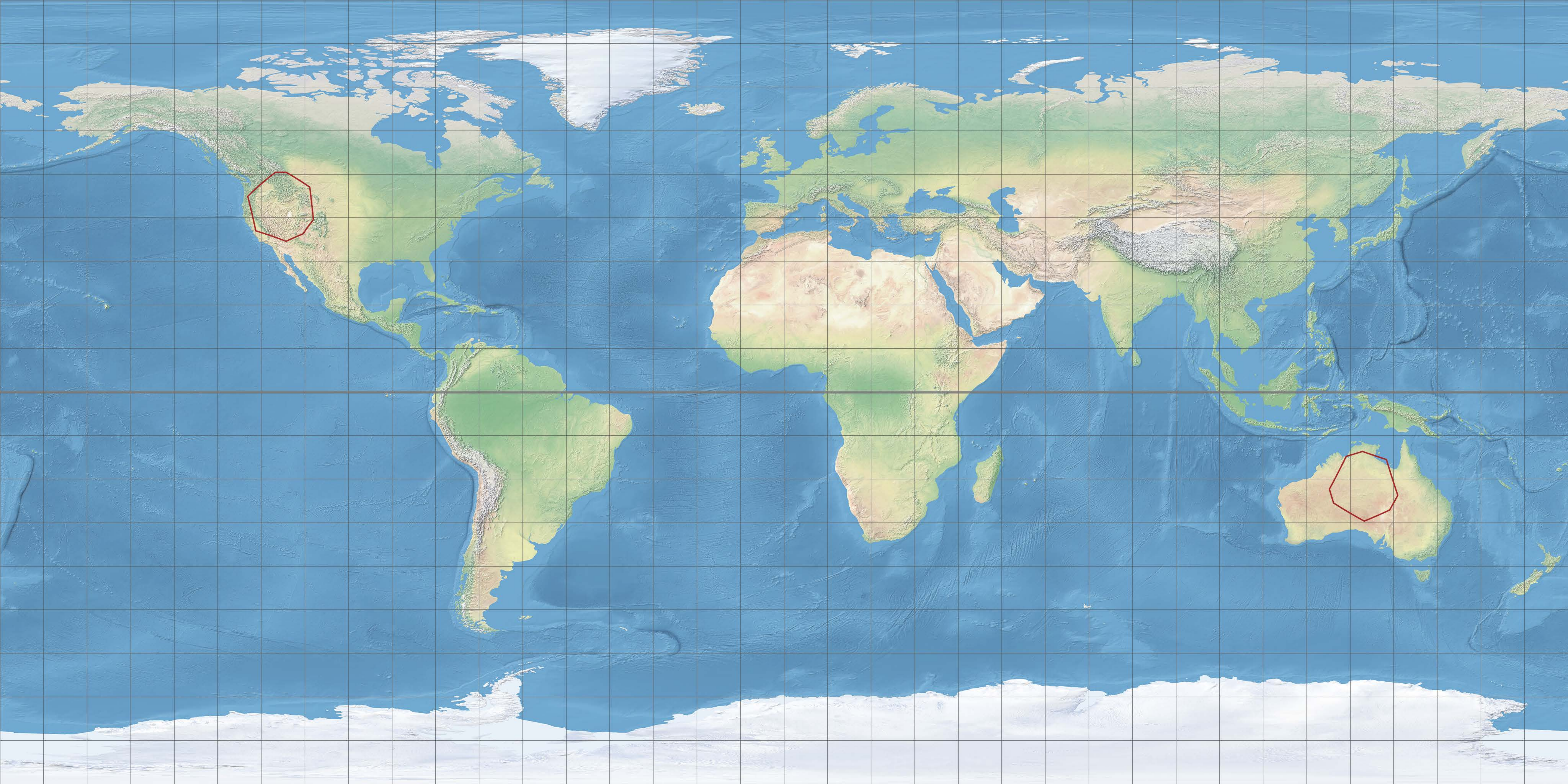


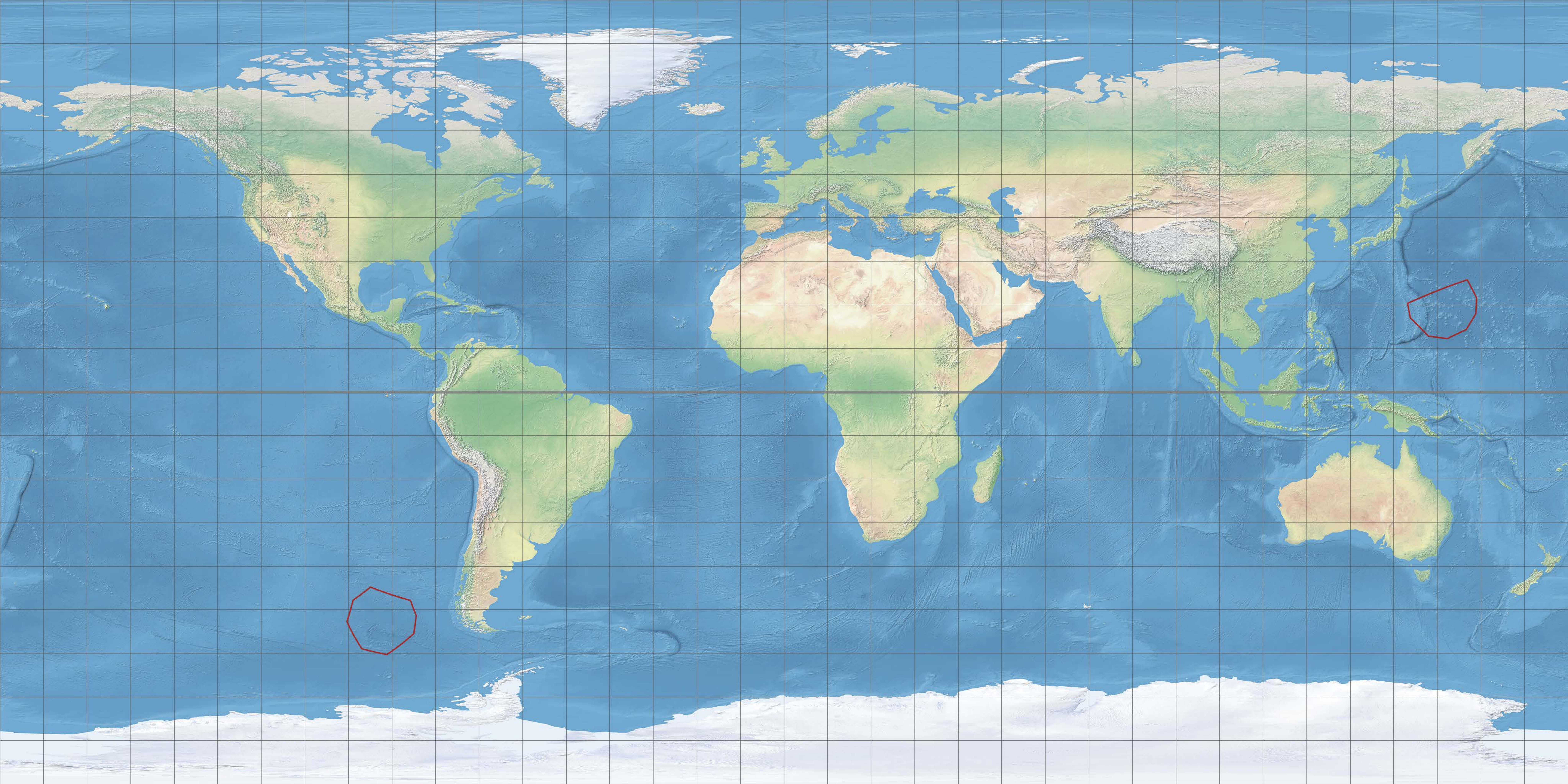




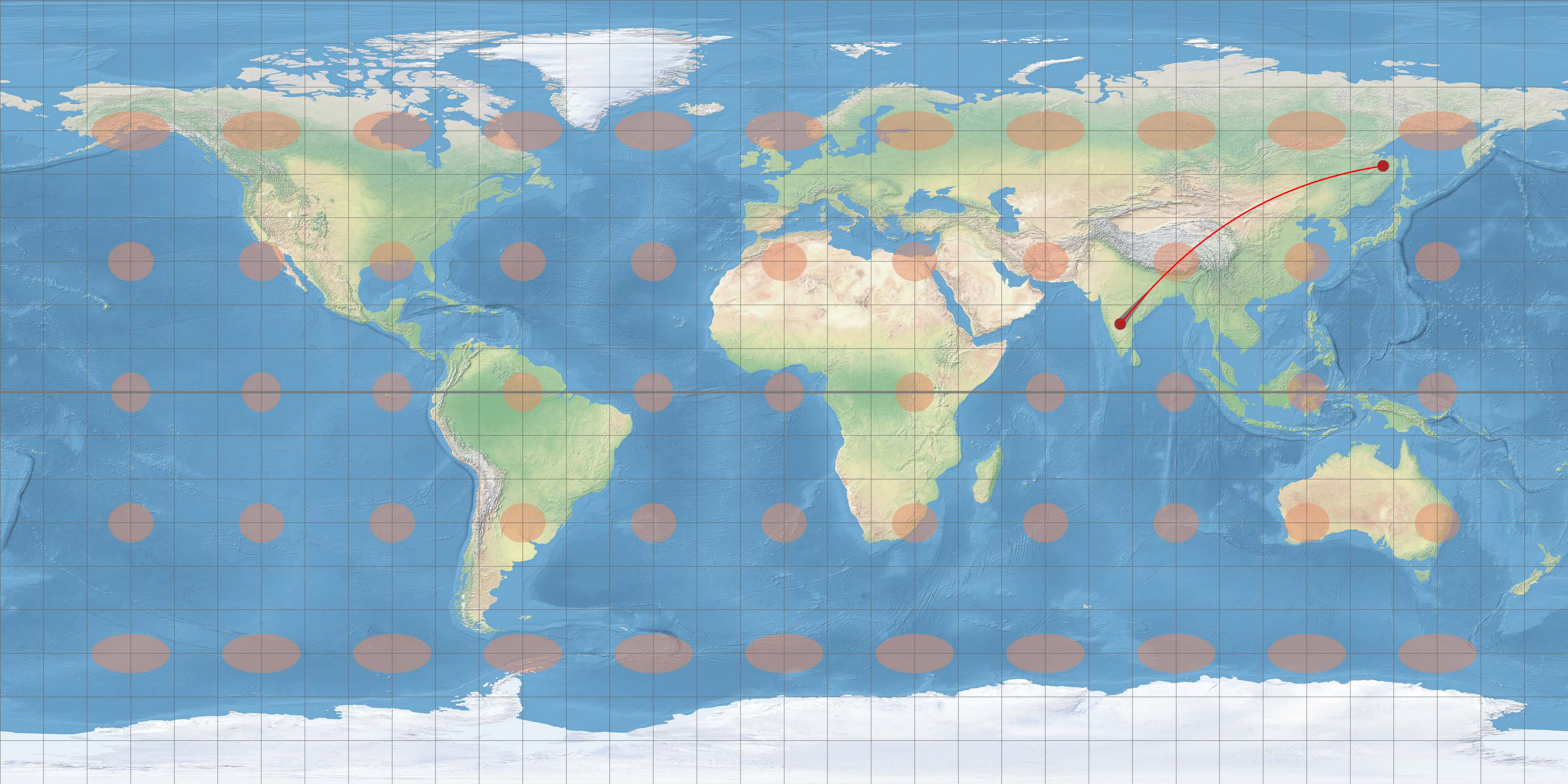


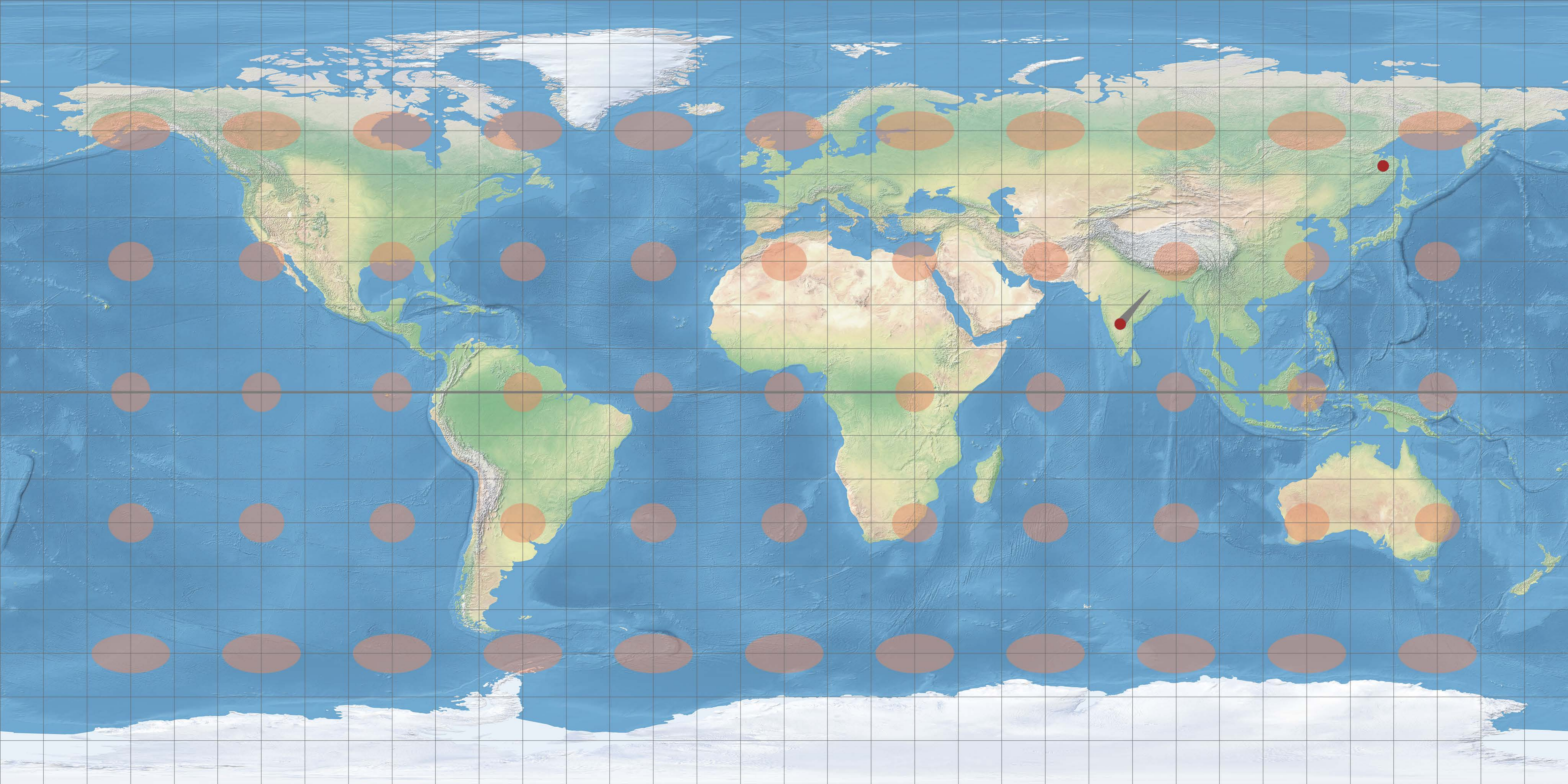


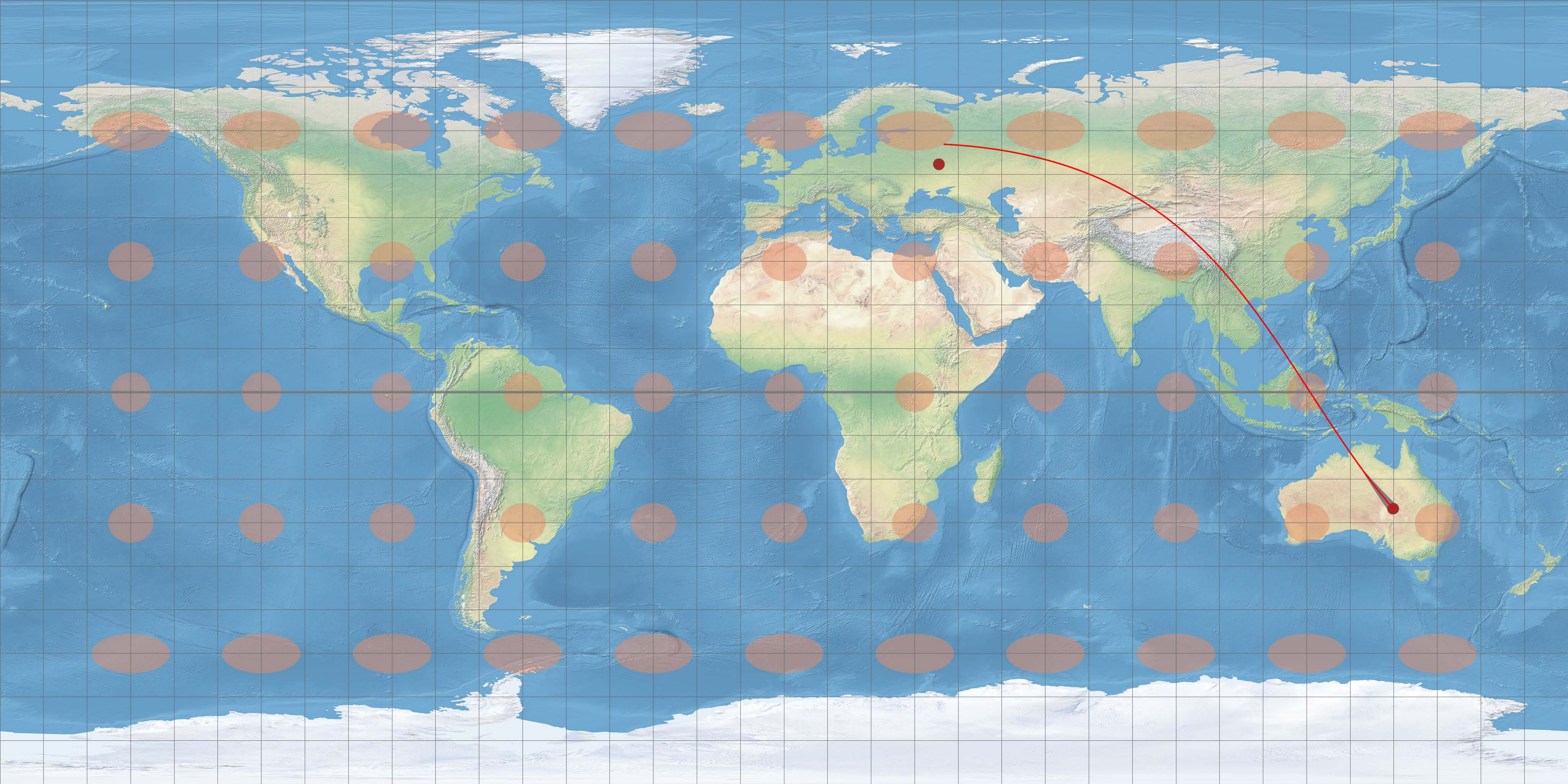


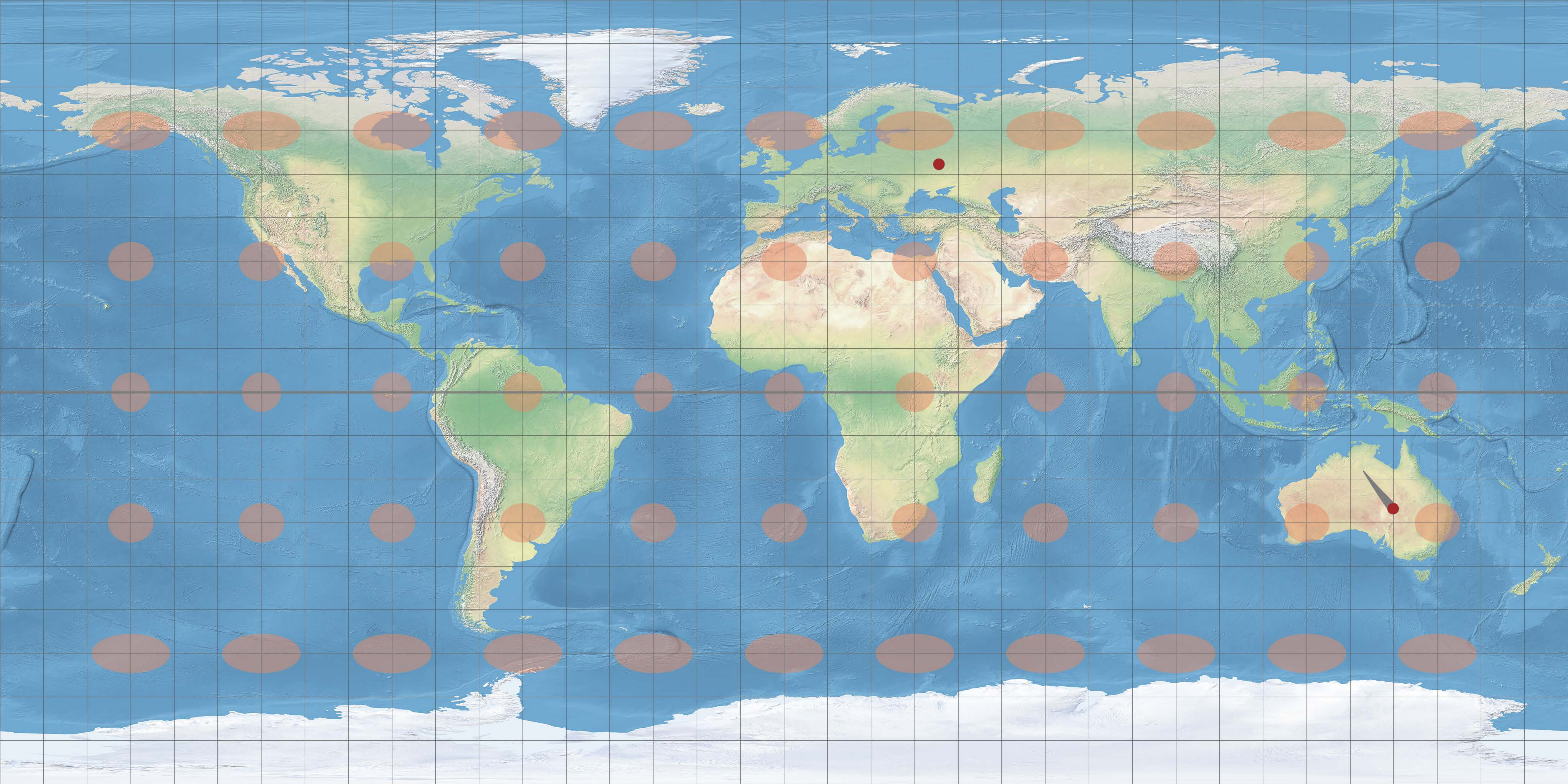


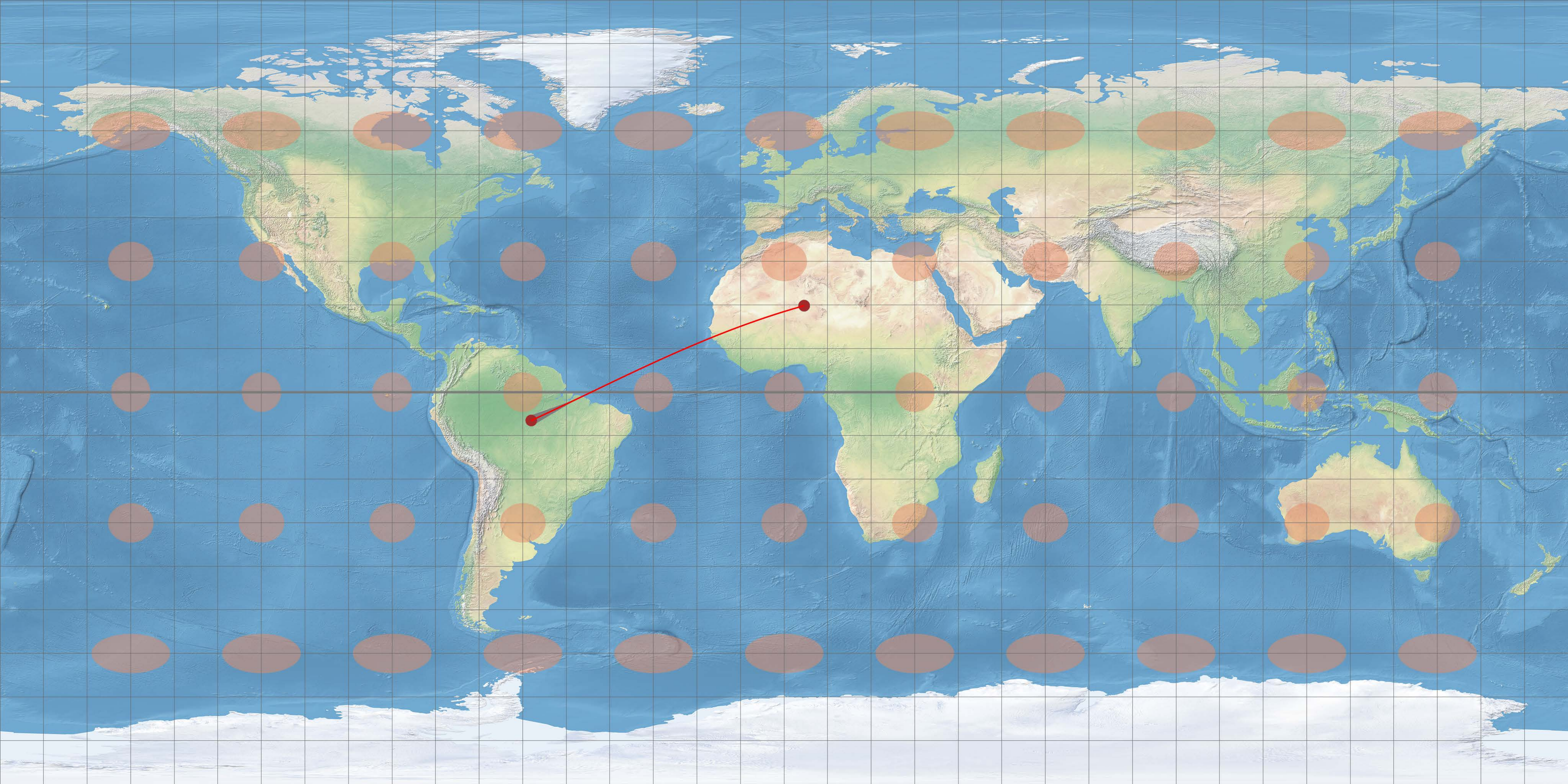
Direction estimation
Training (with correct answers shown to
participants)

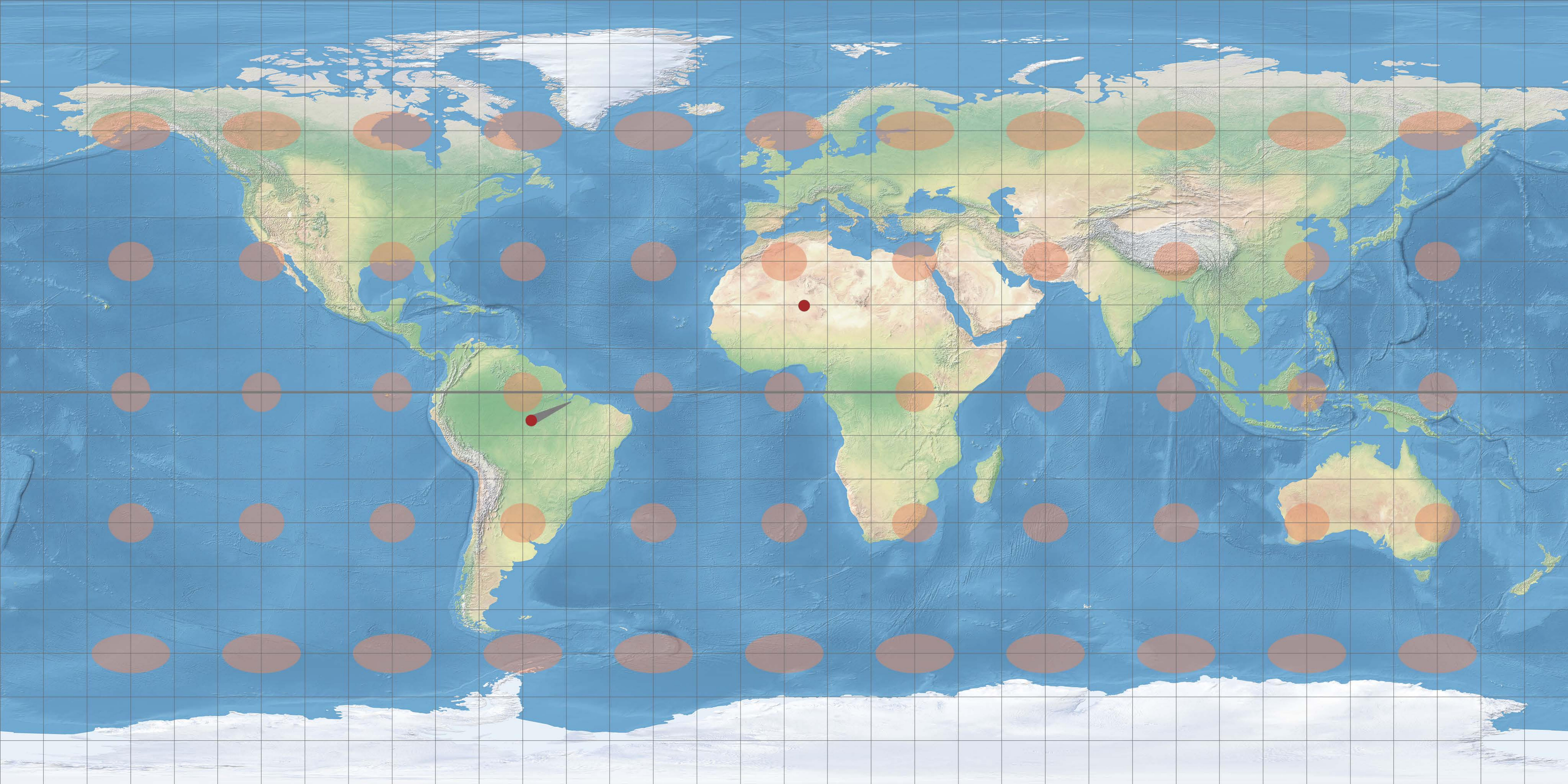


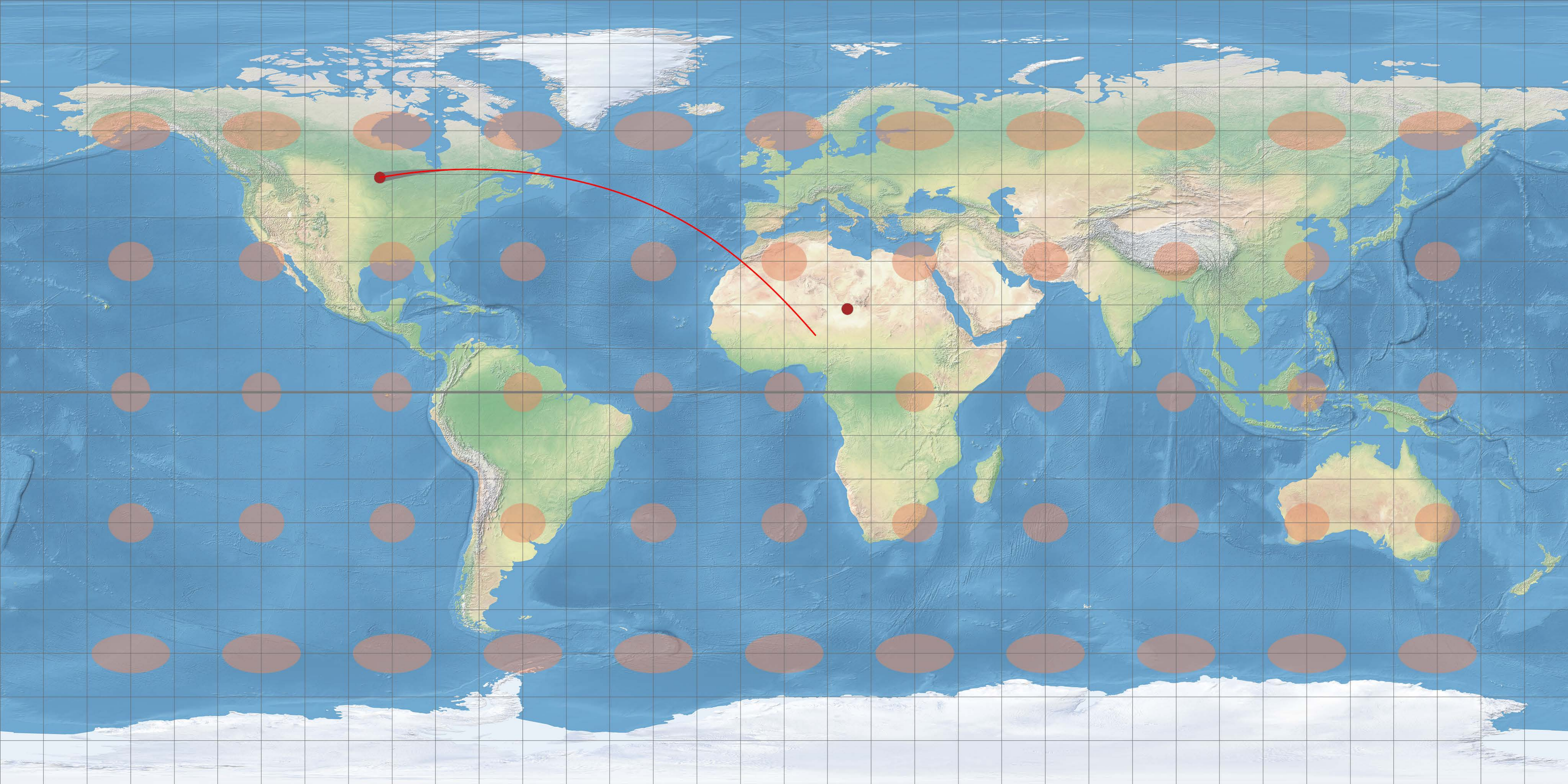


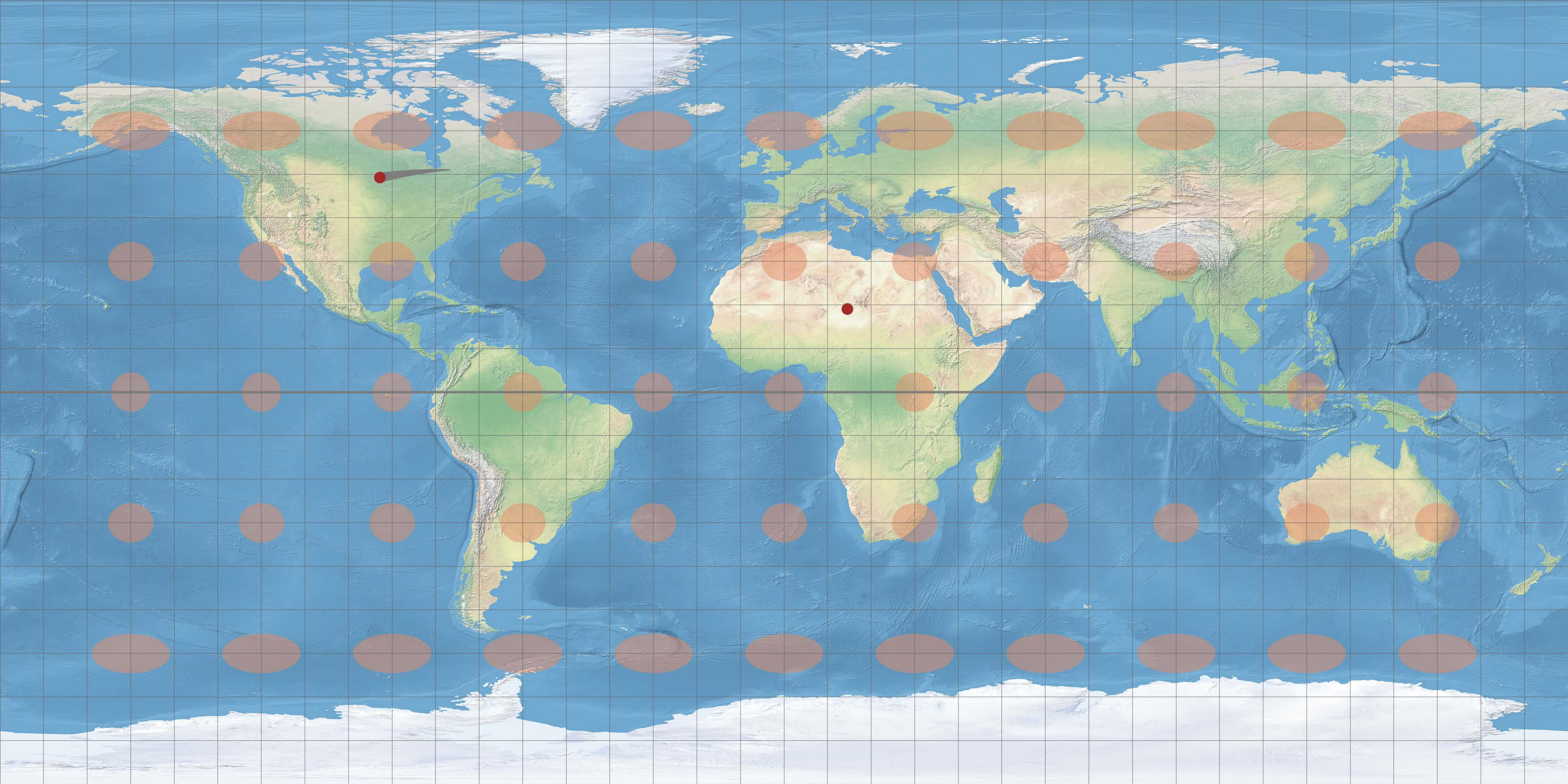


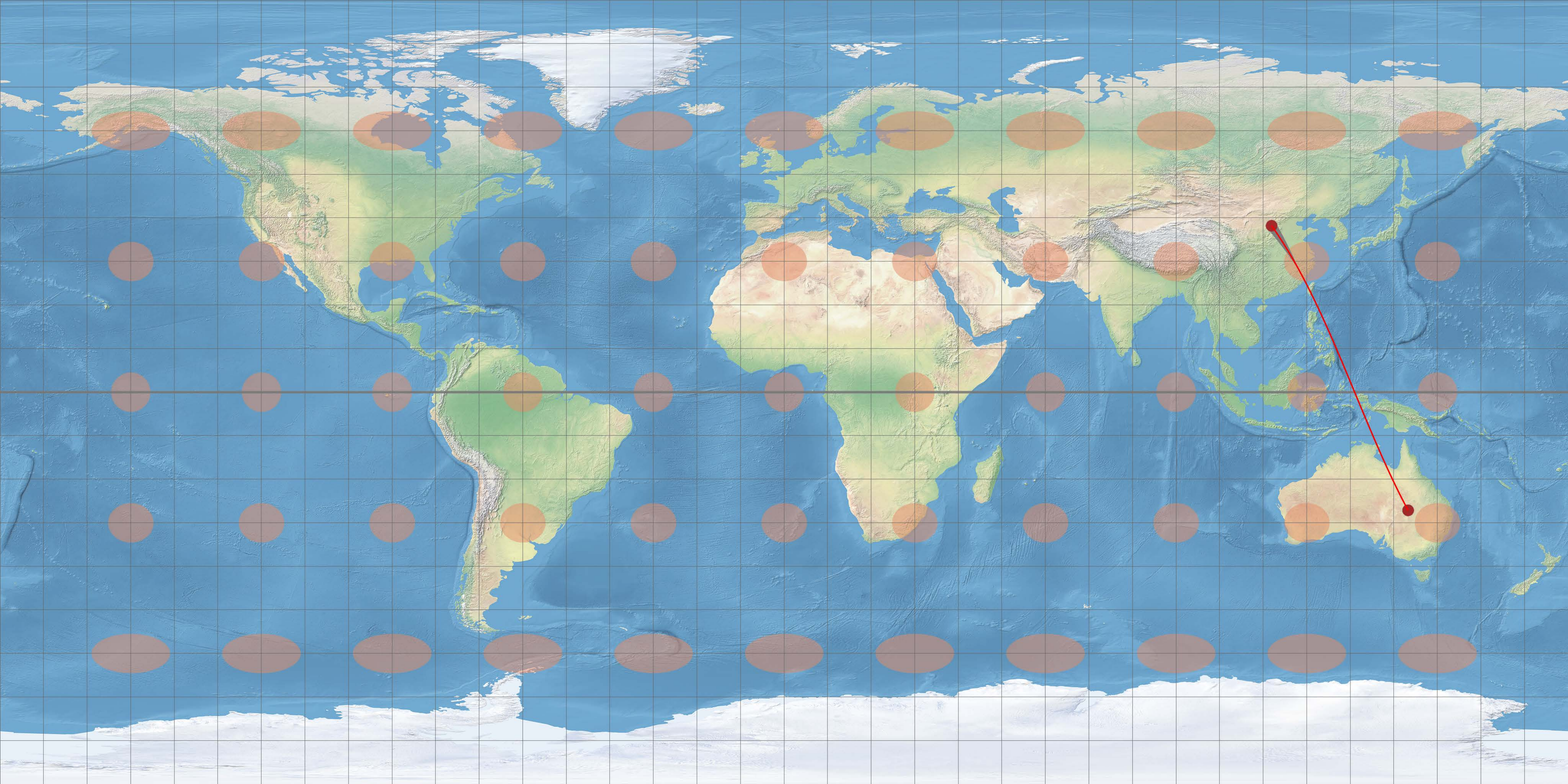


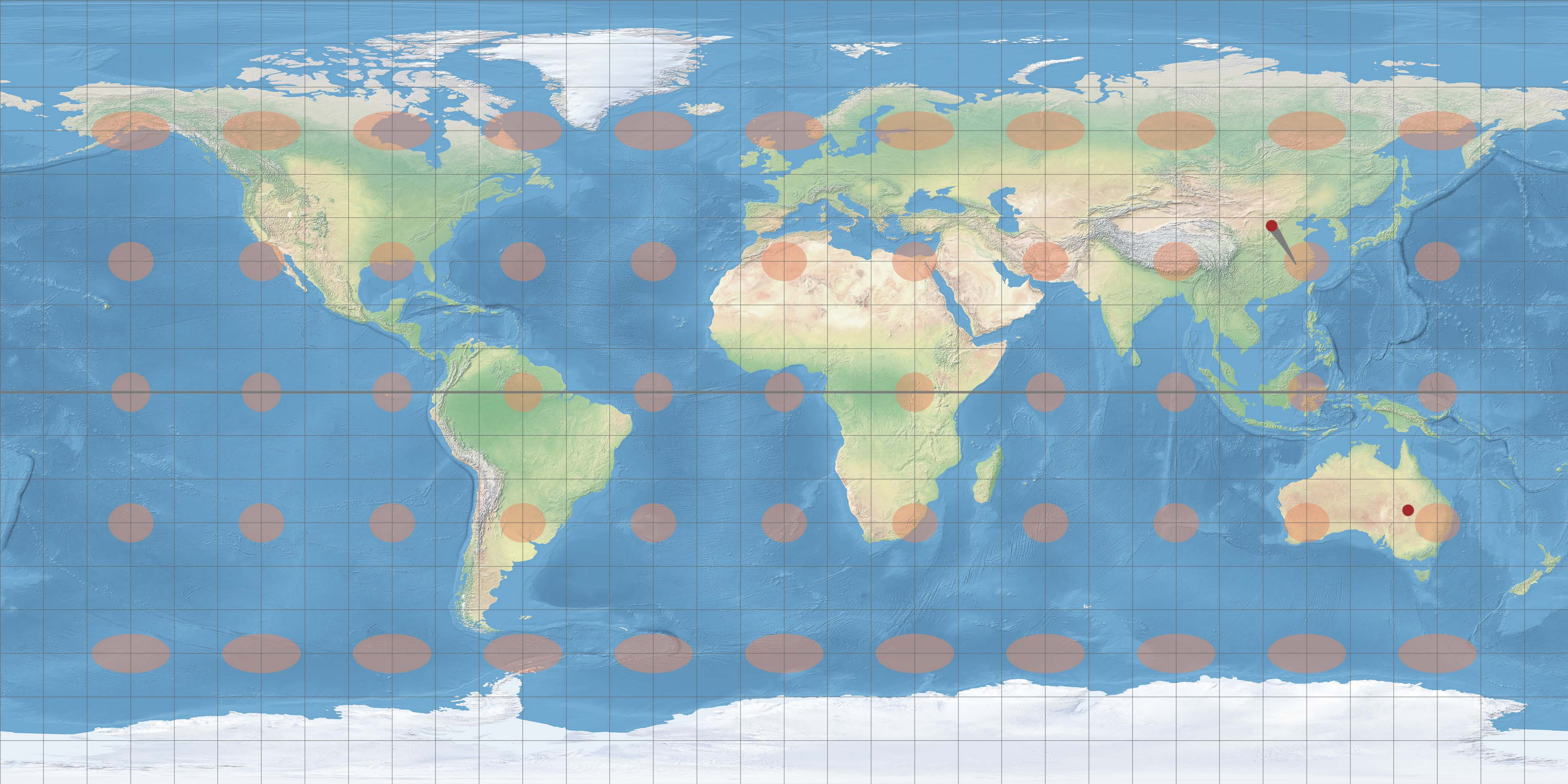


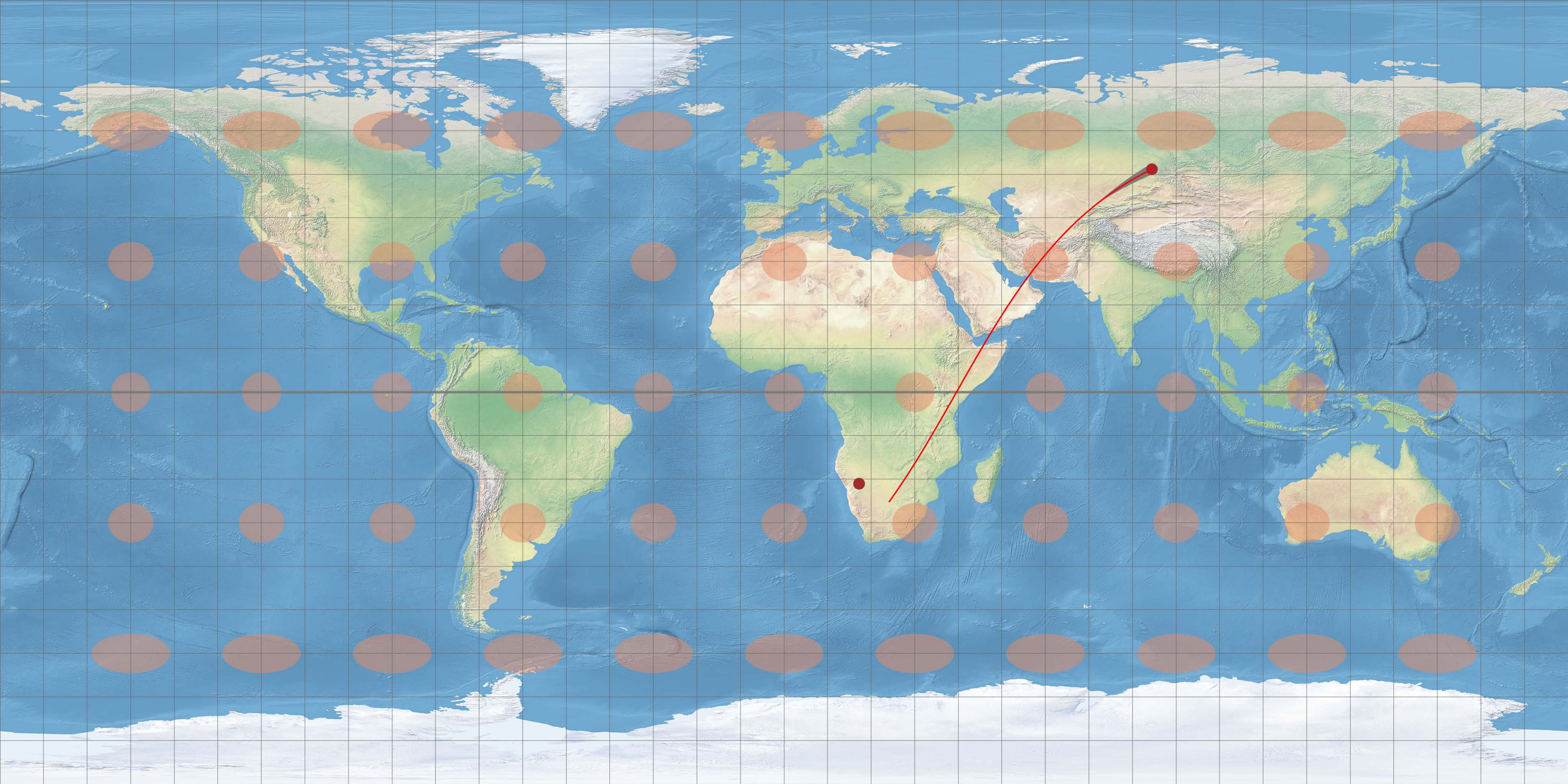


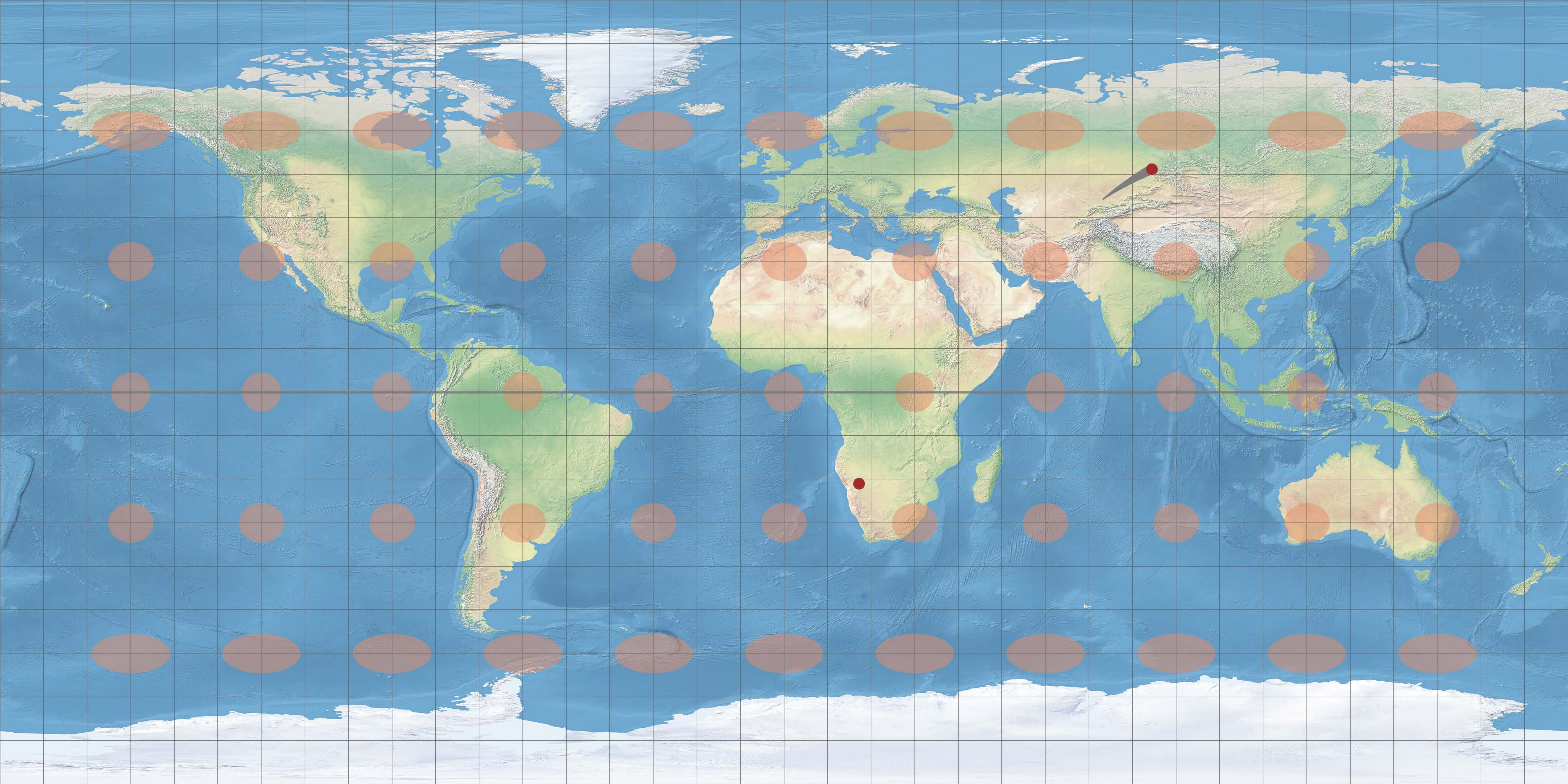


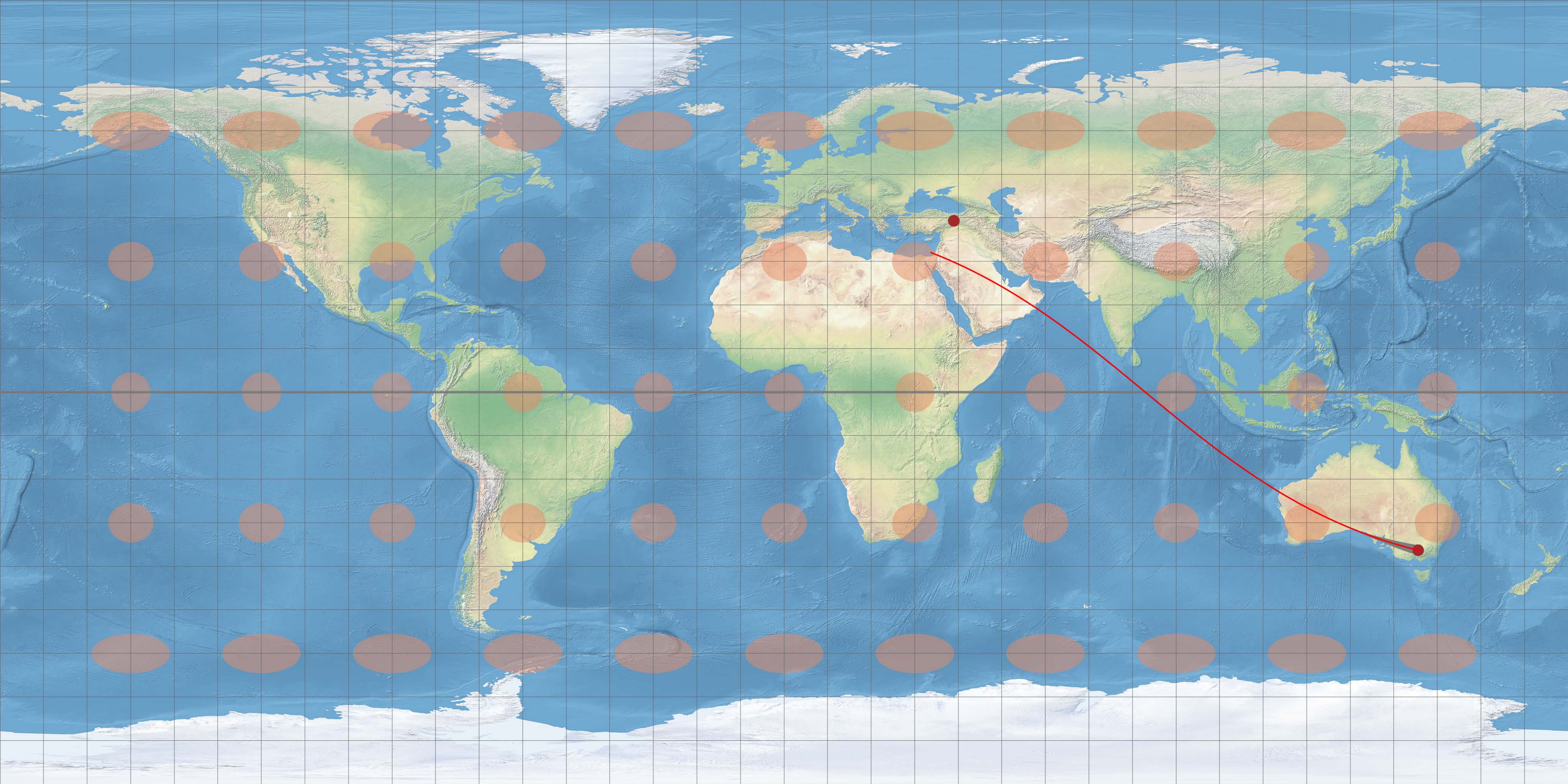


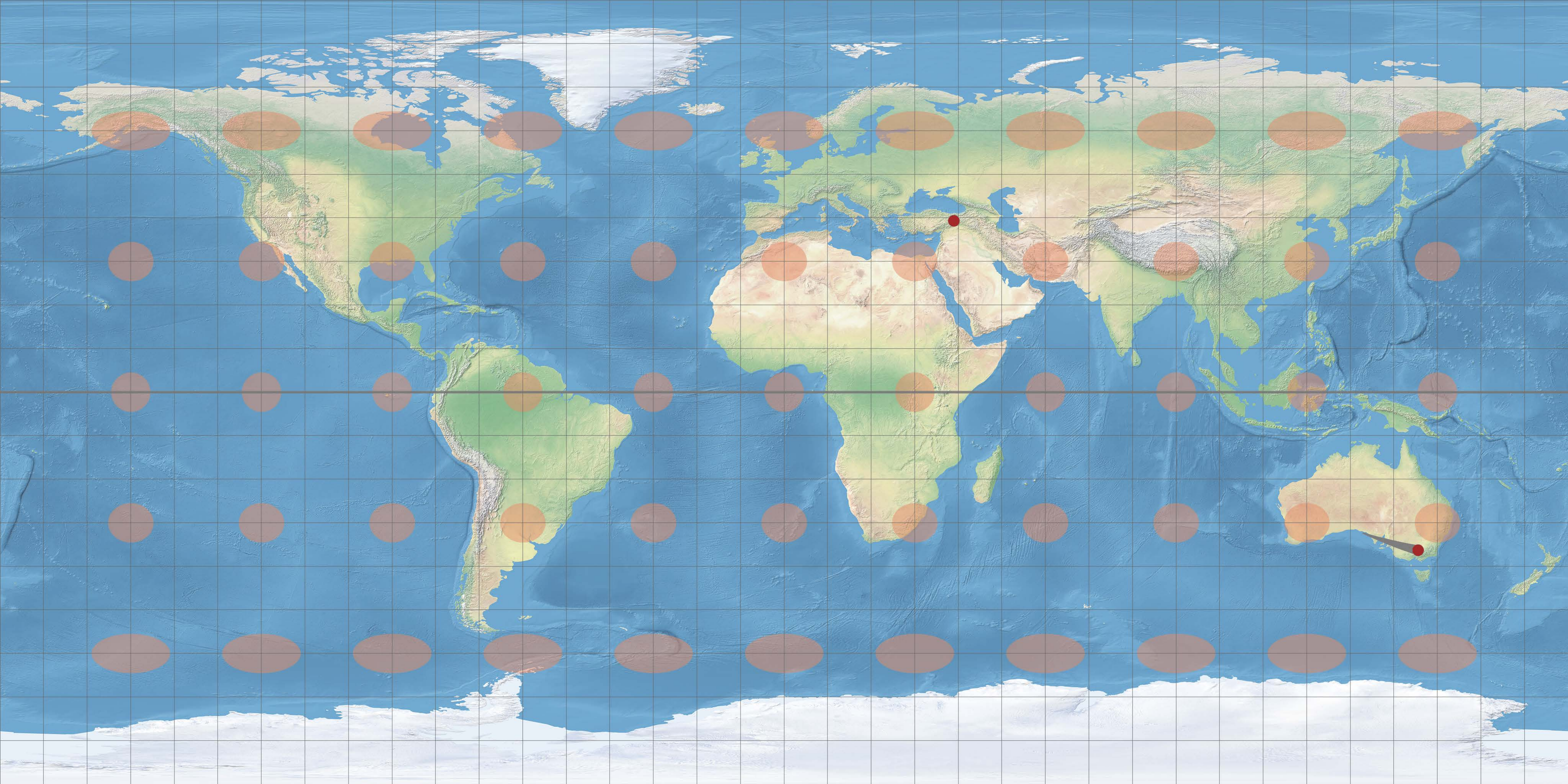


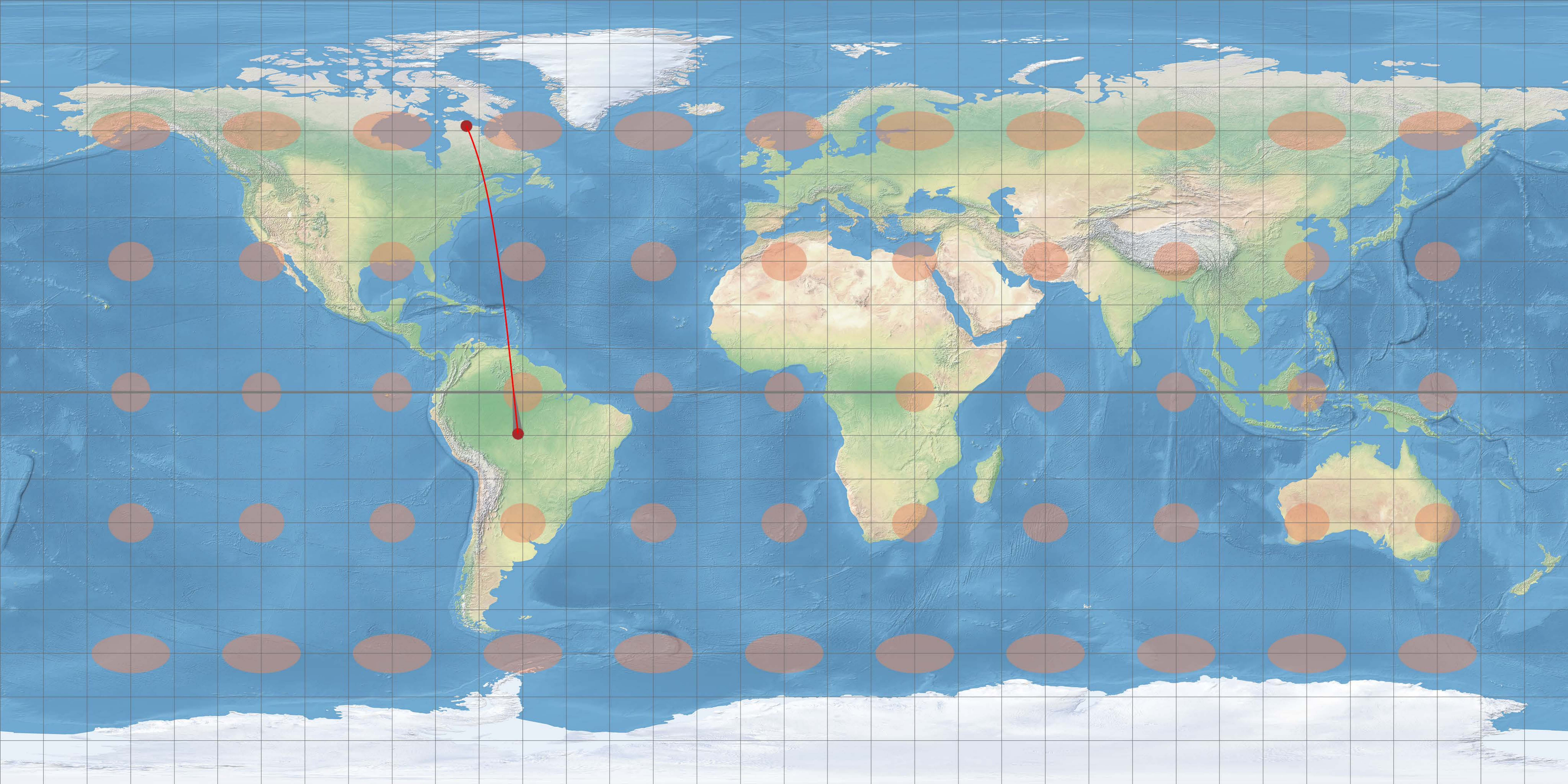


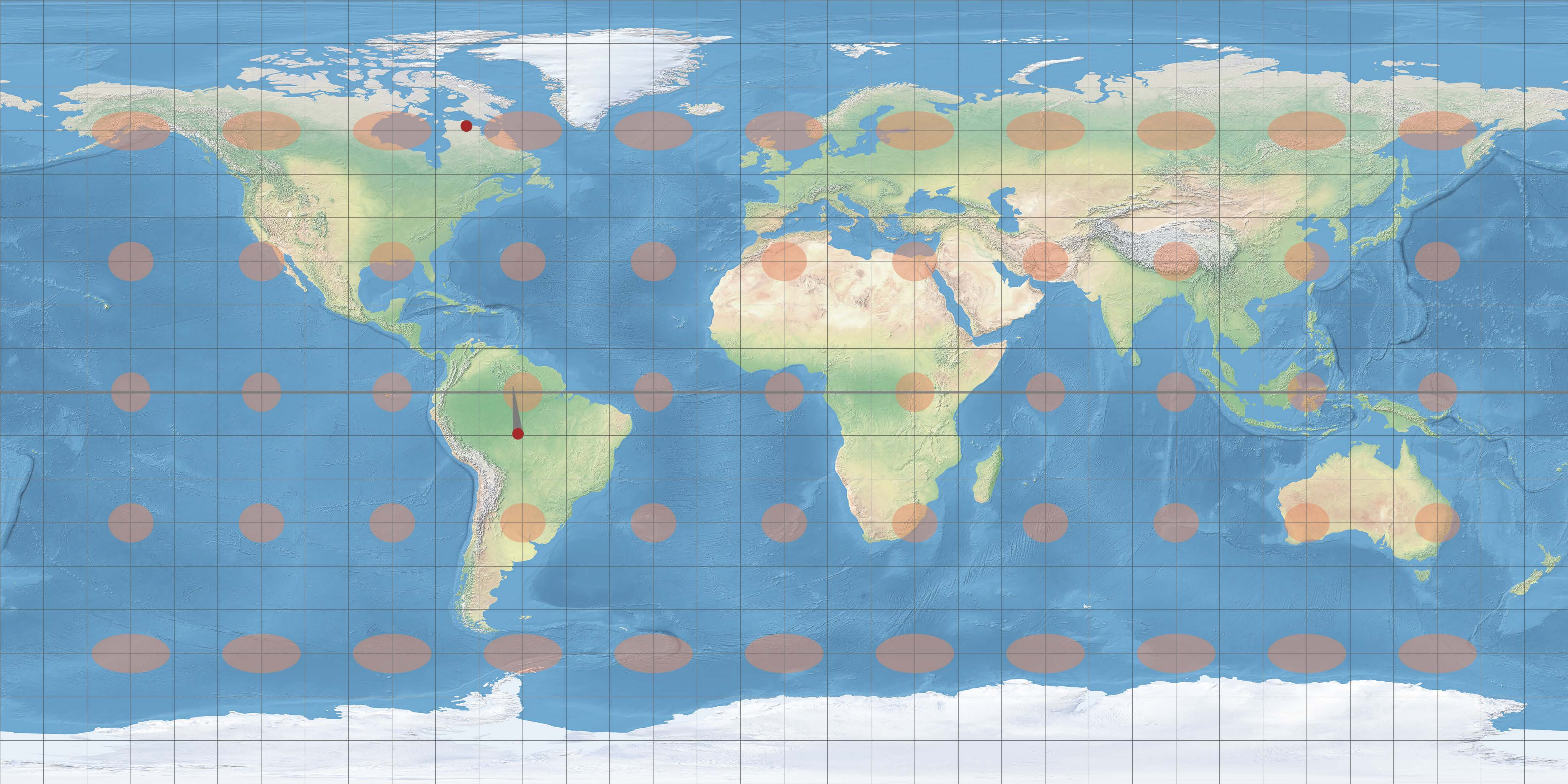




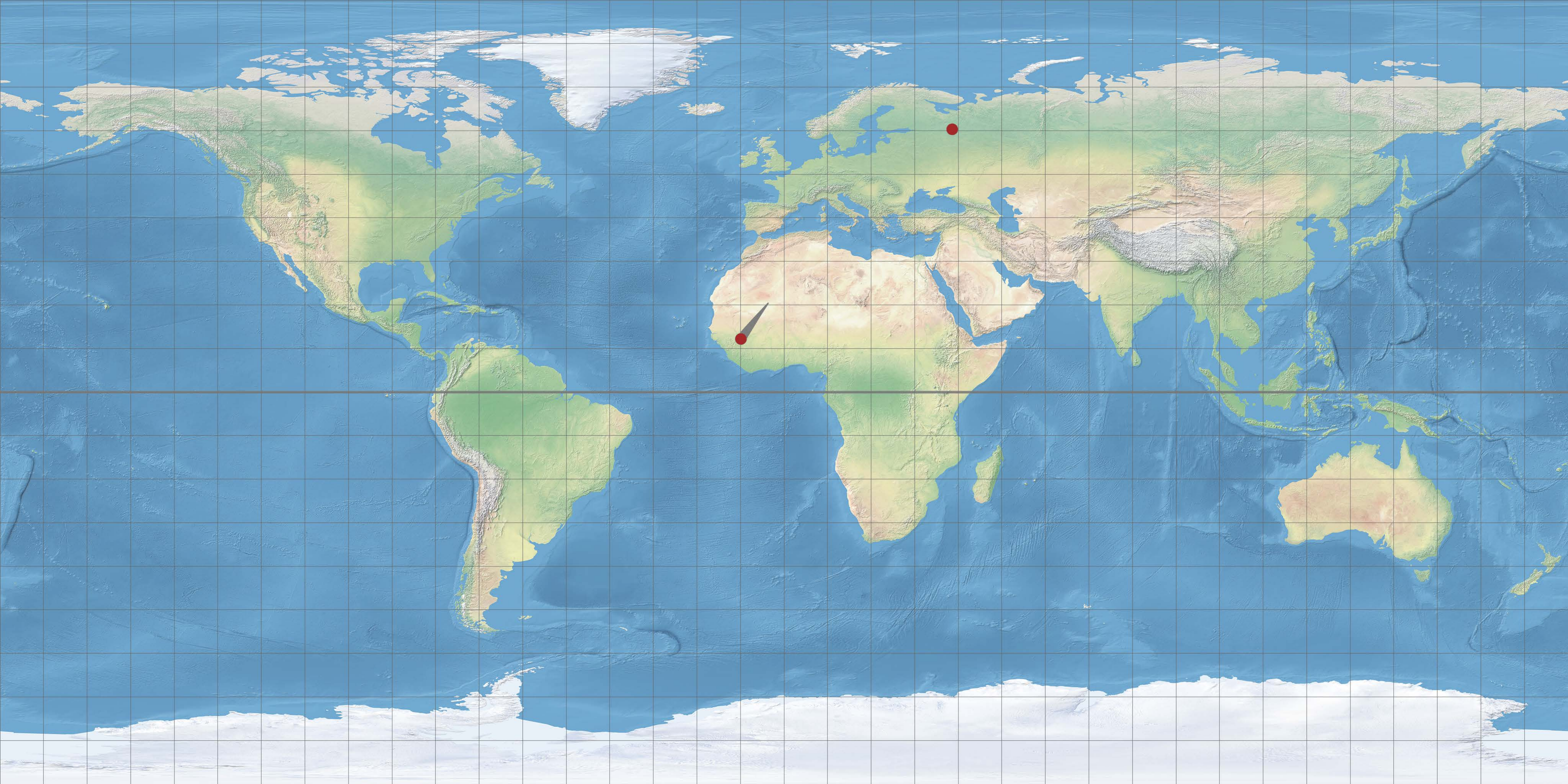


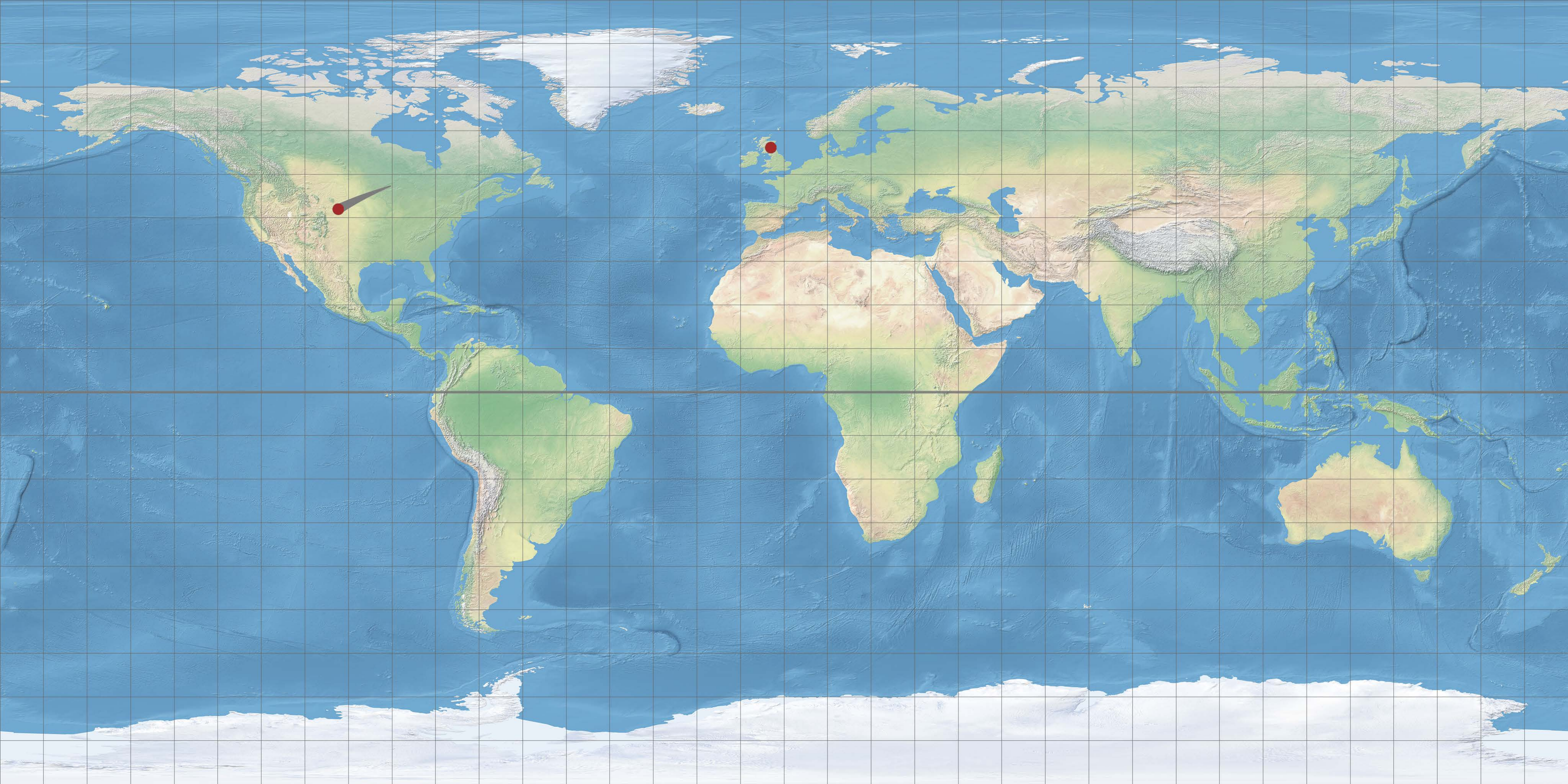


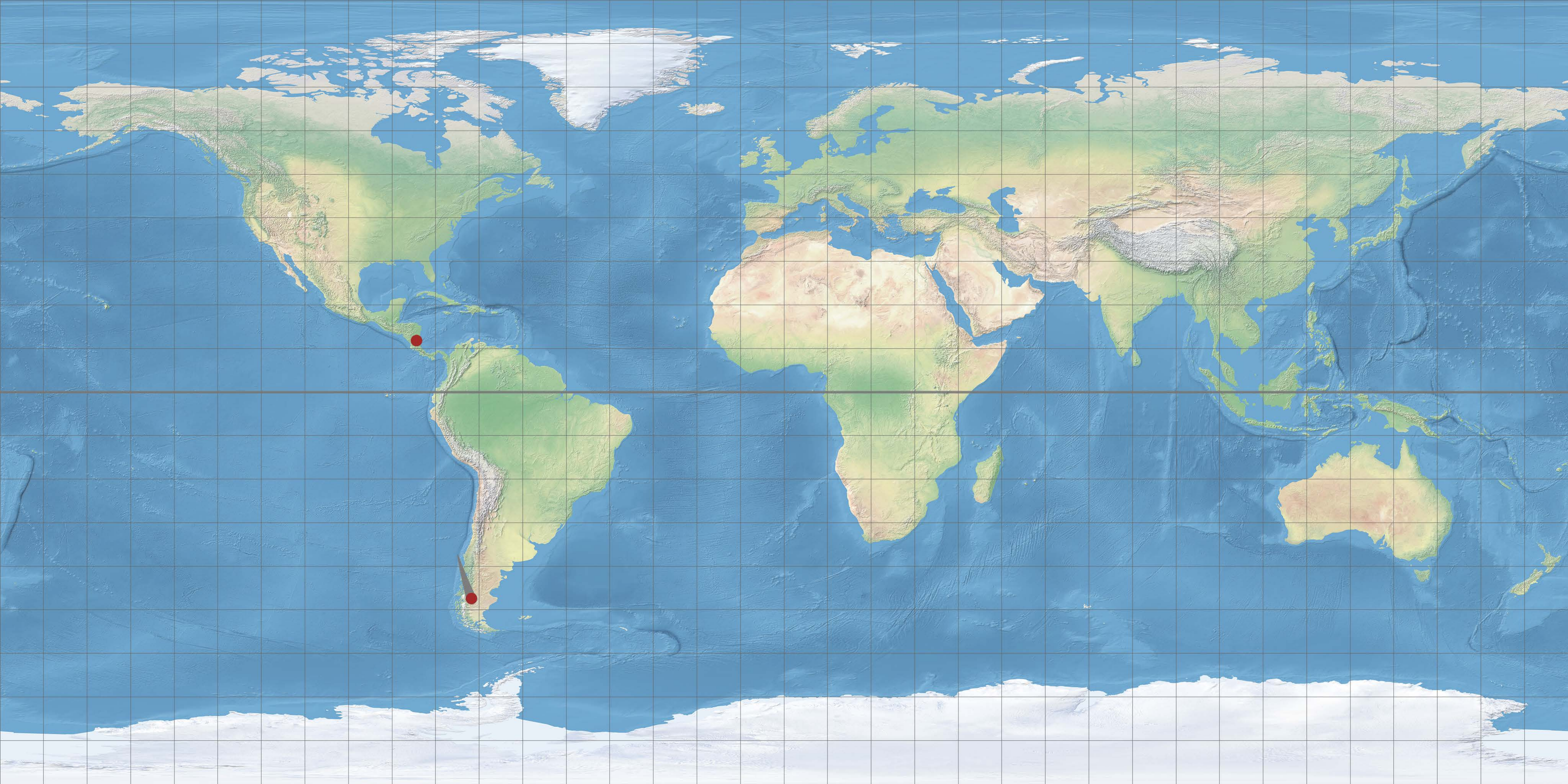


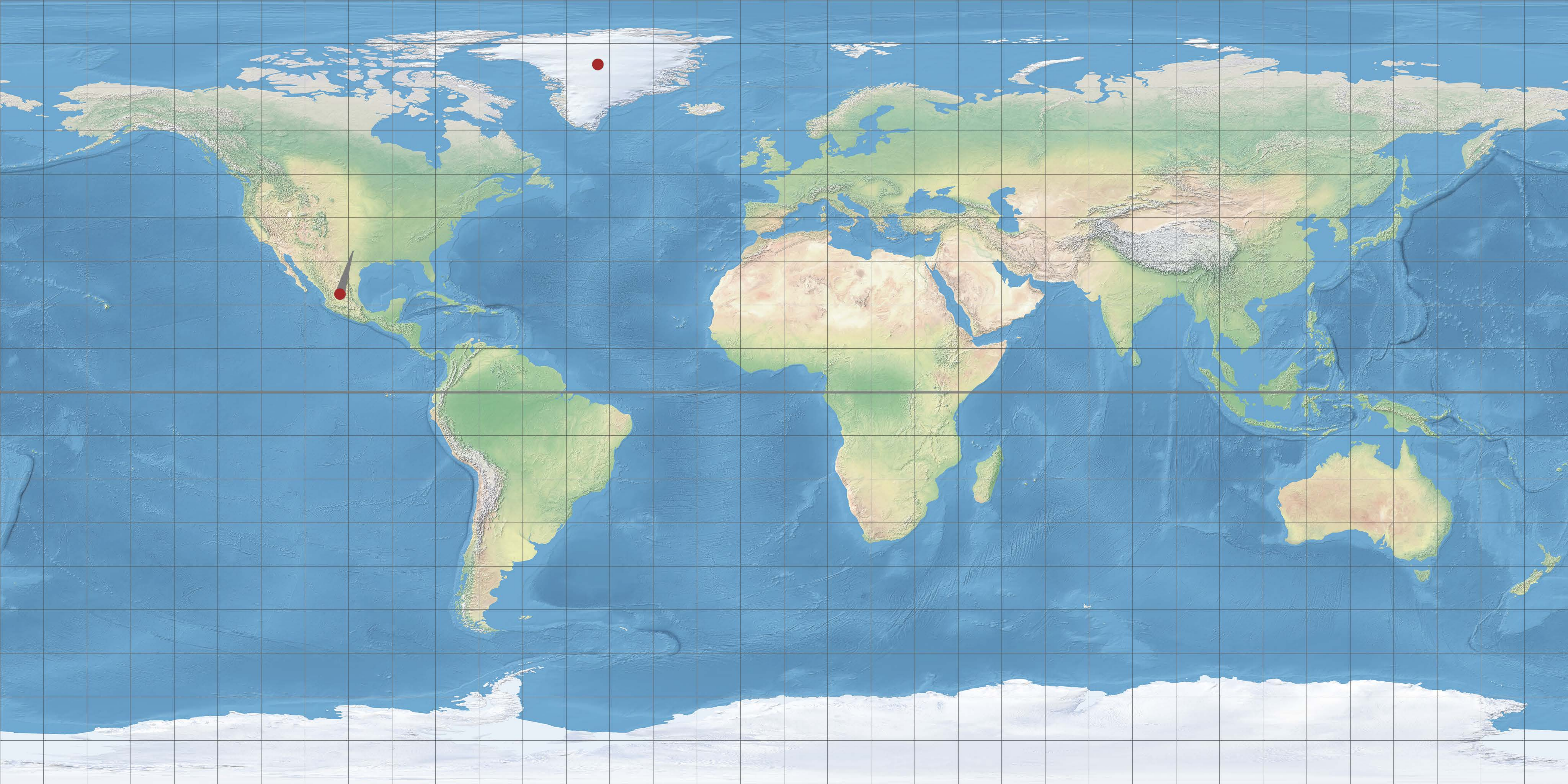


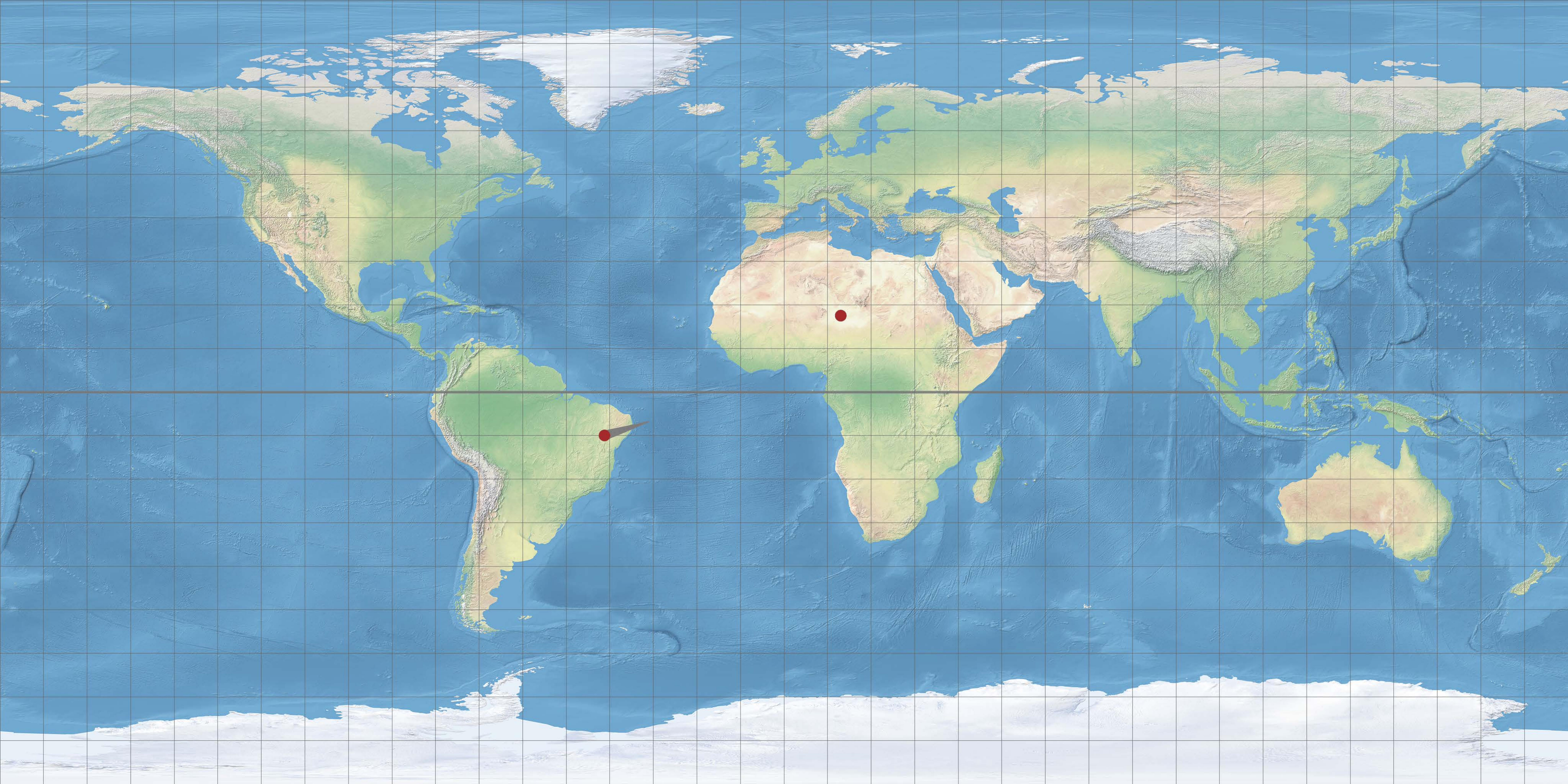
Direction estimation
Close distance condition

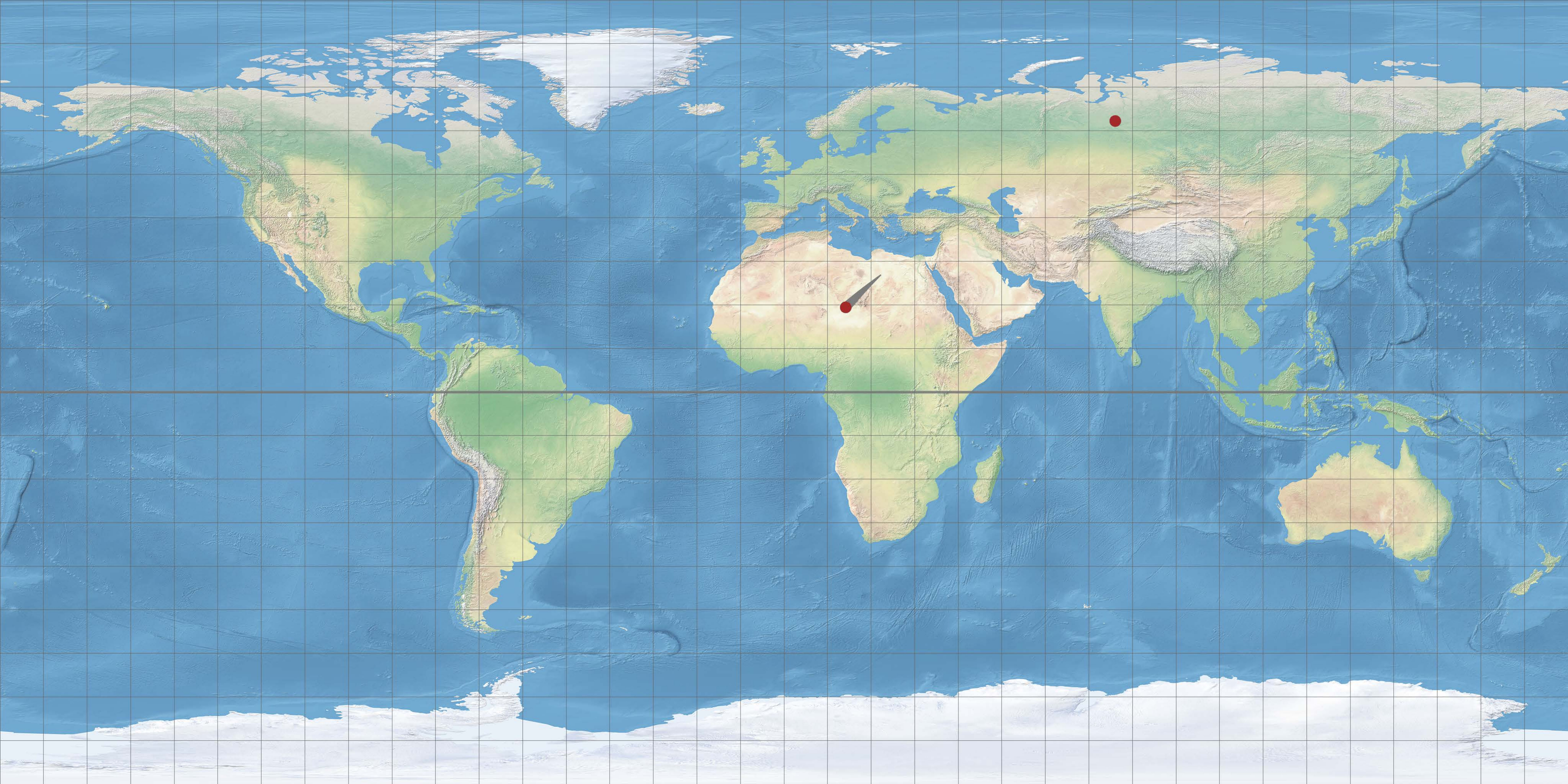


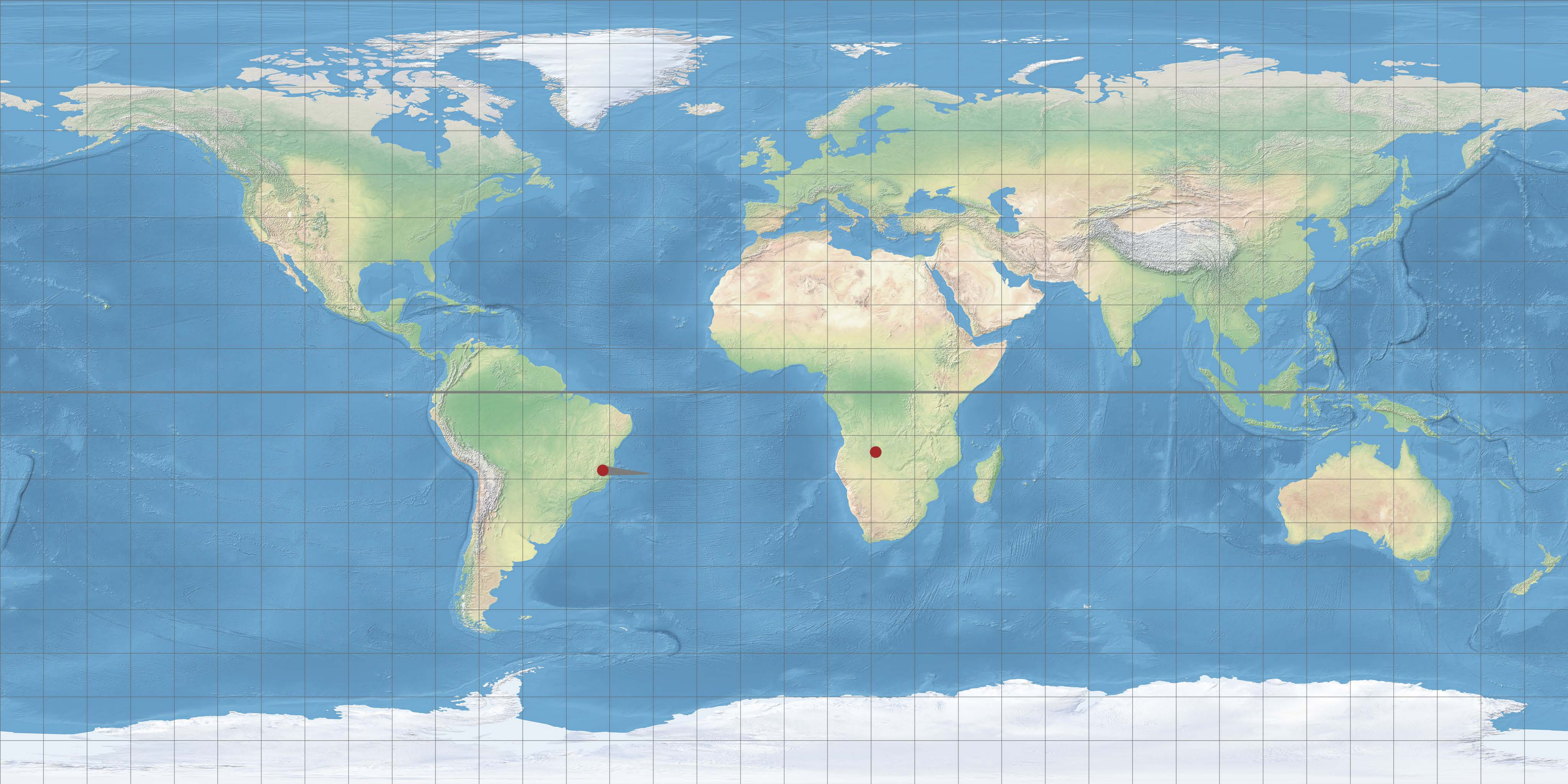


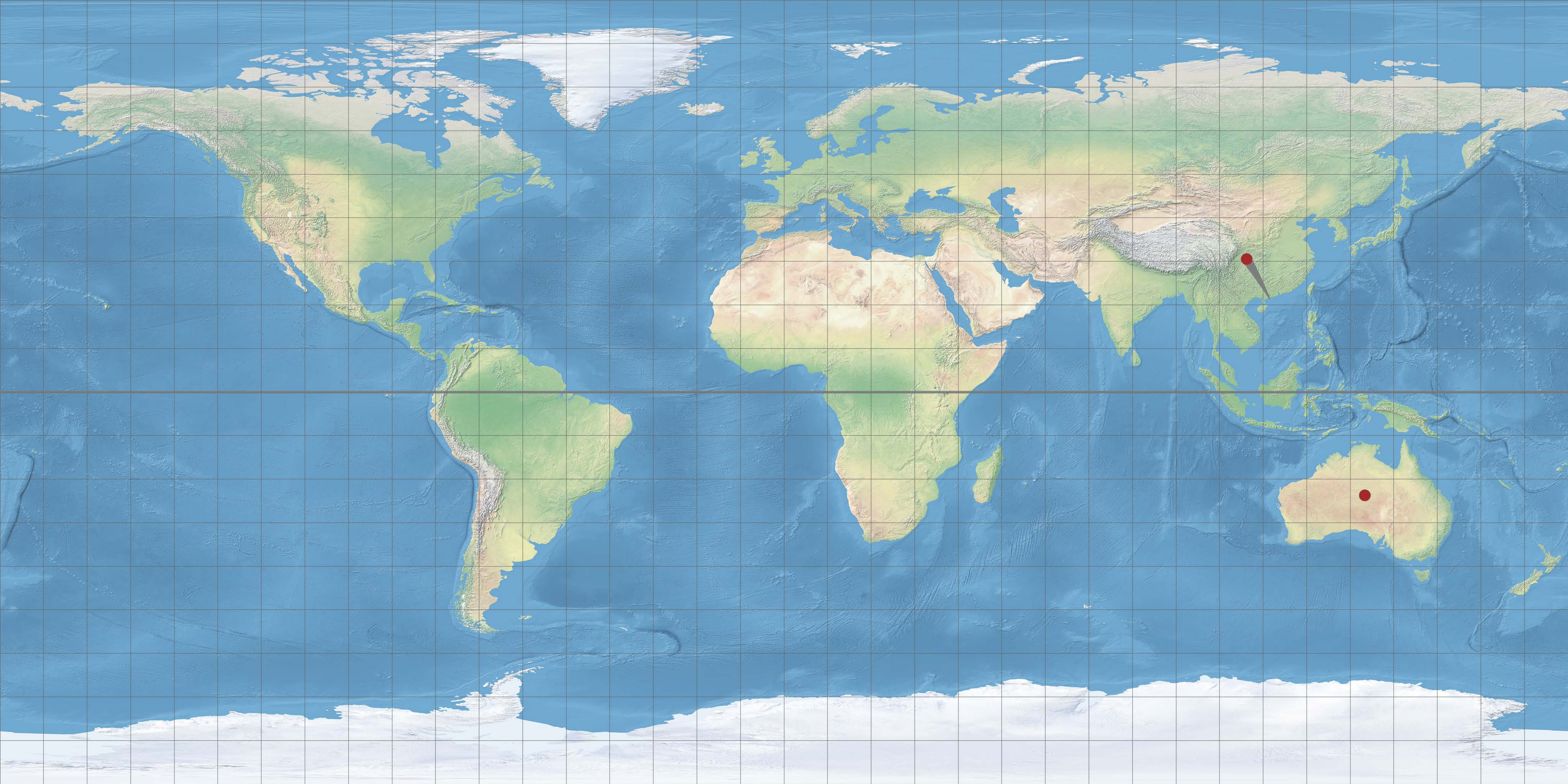


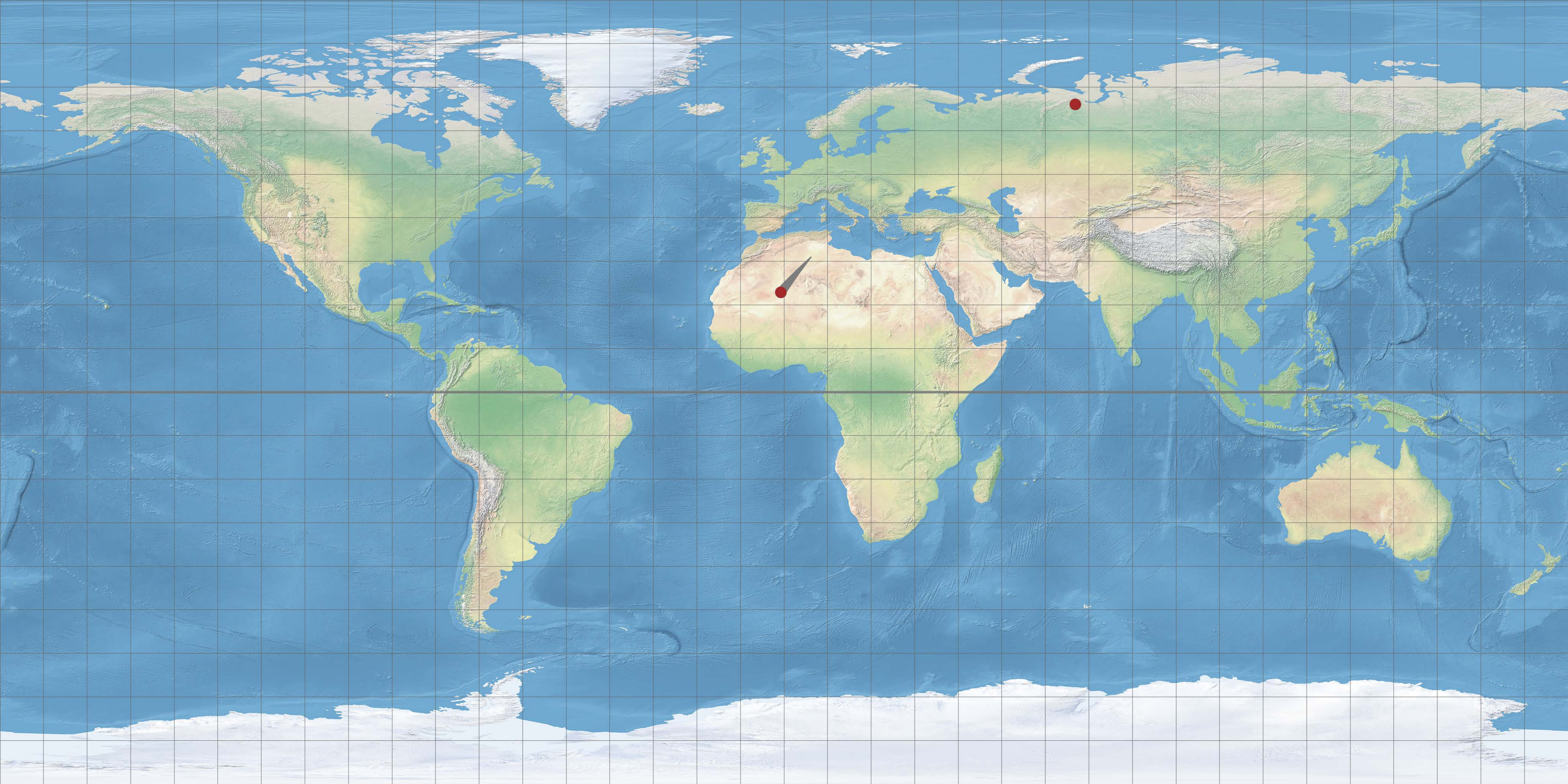


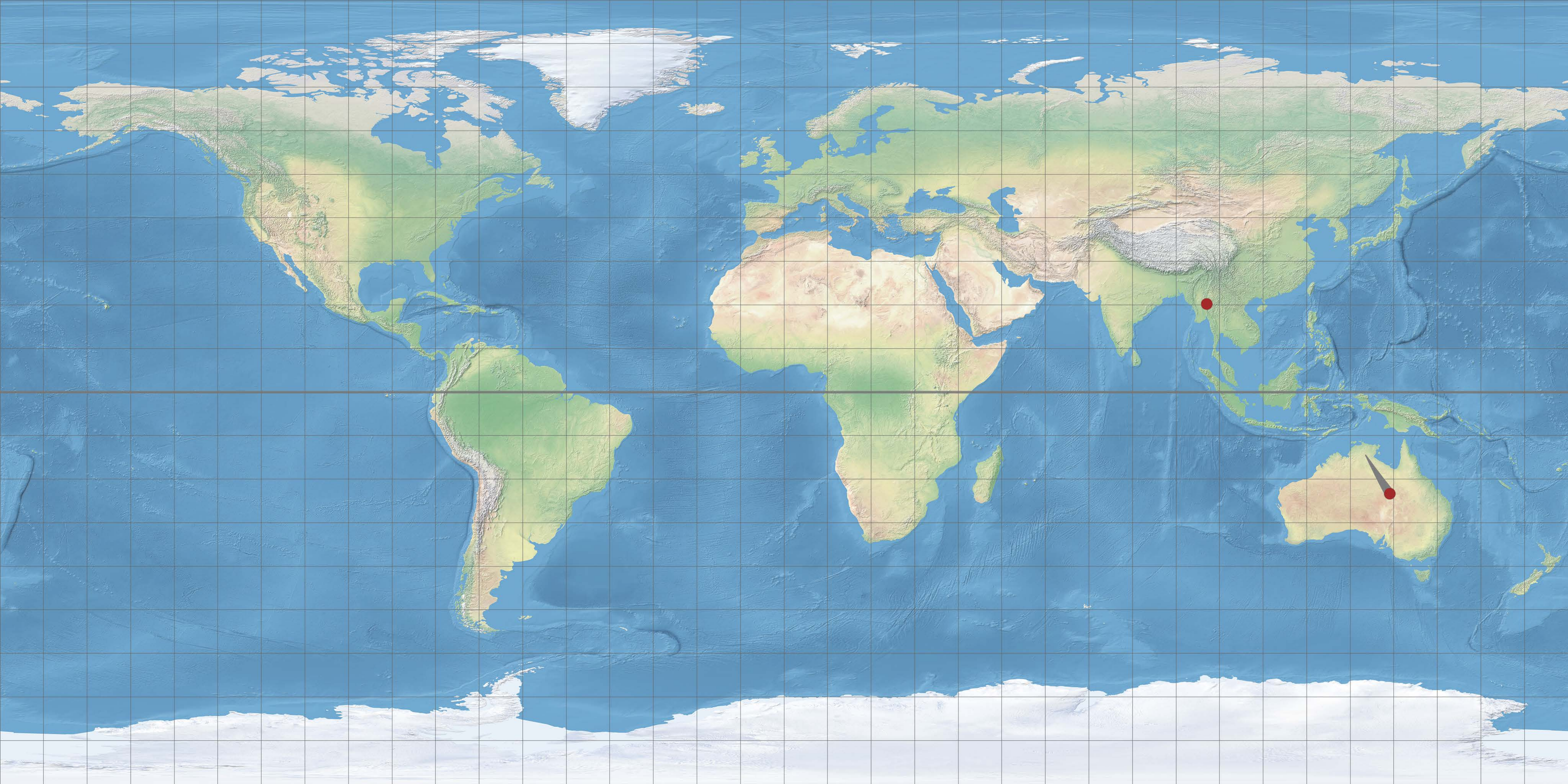


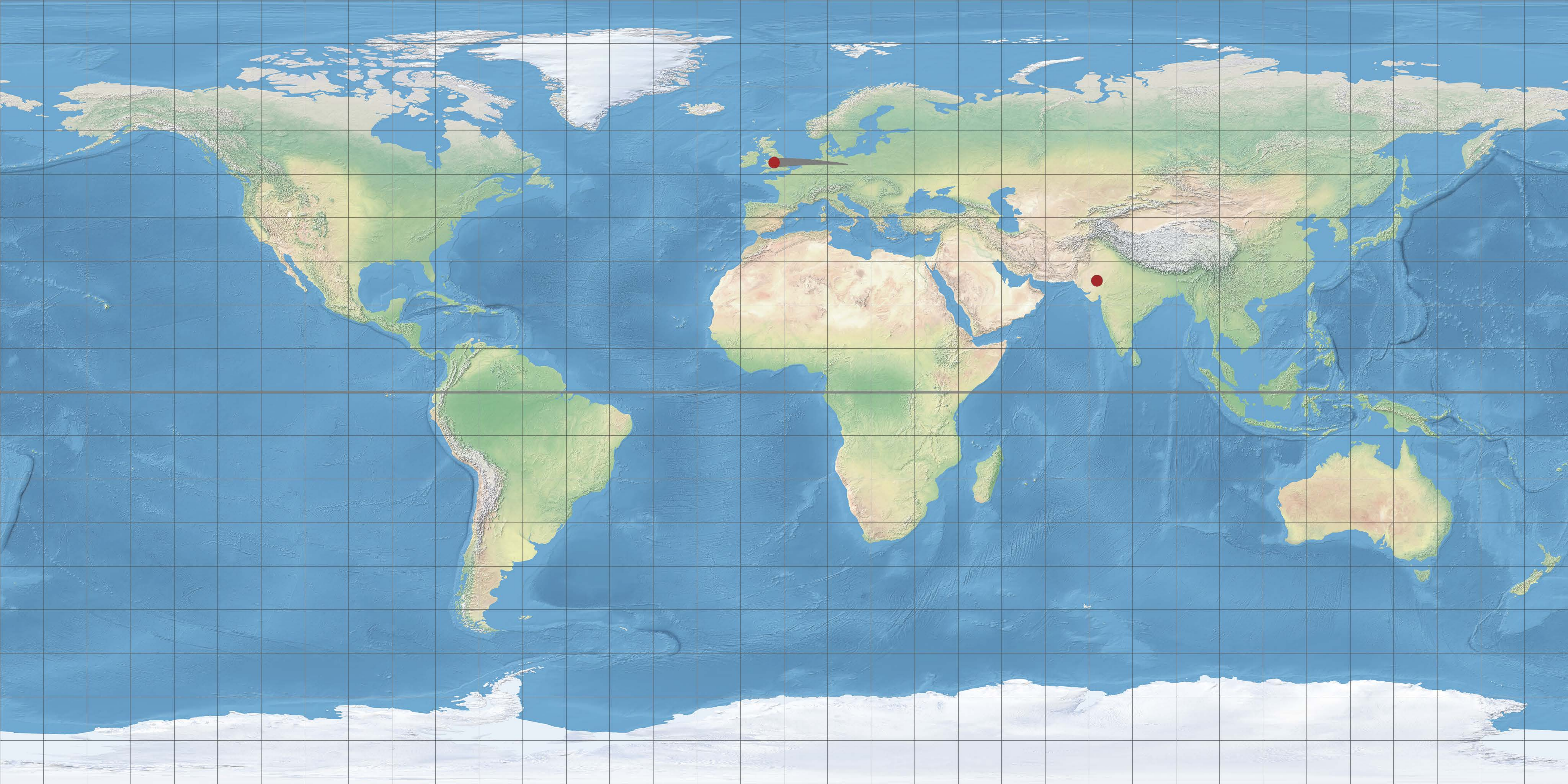


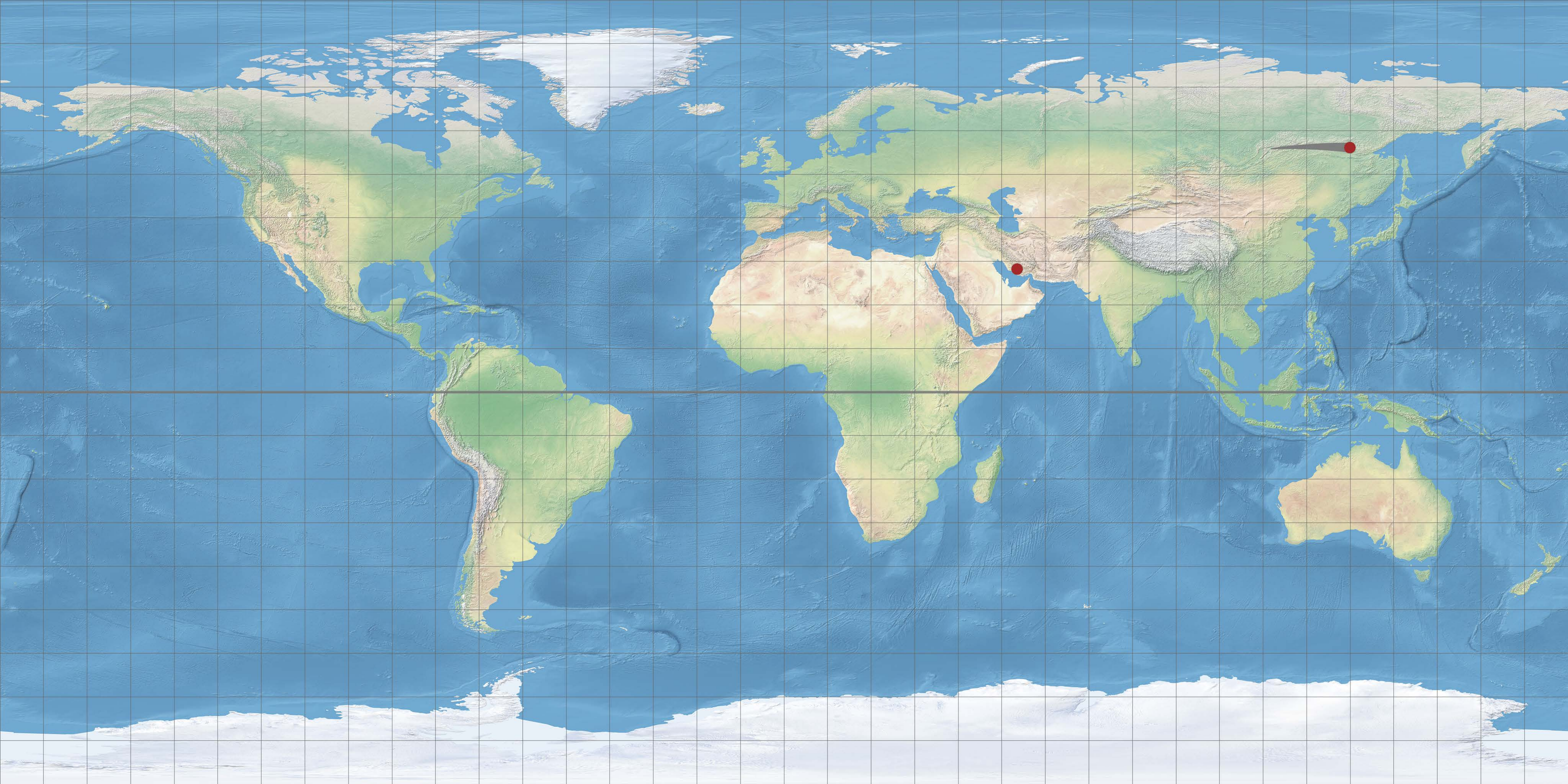


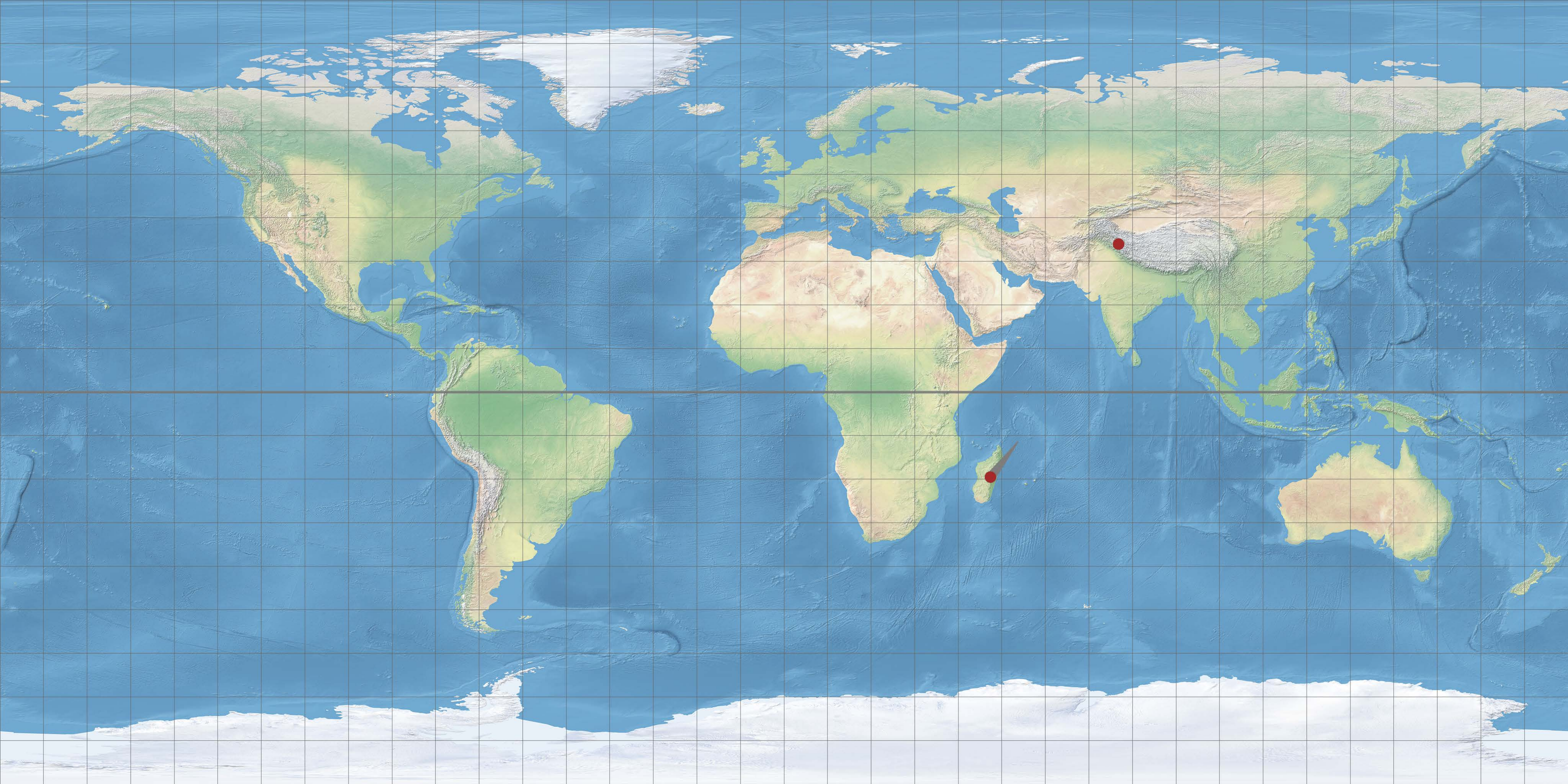


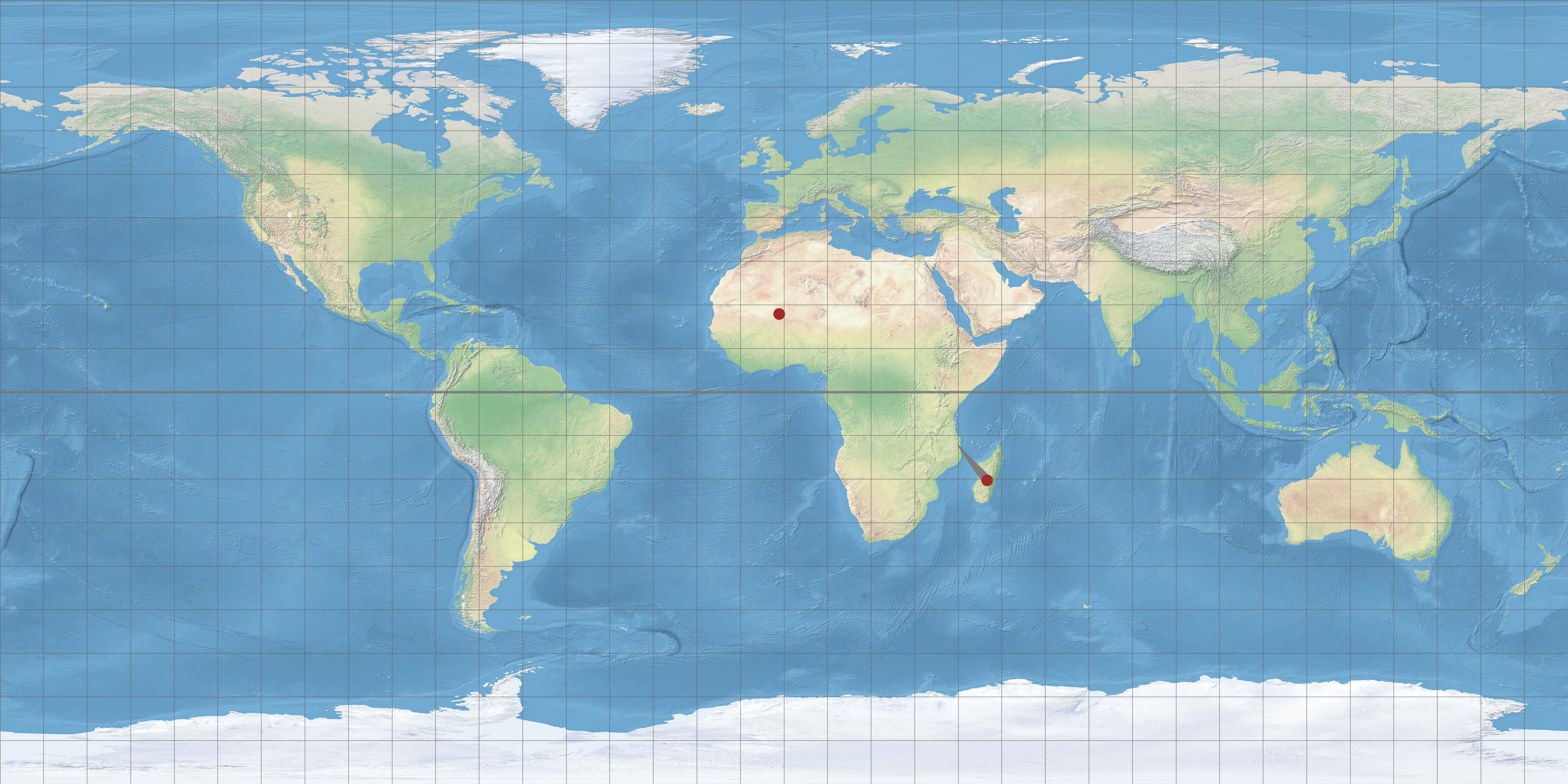


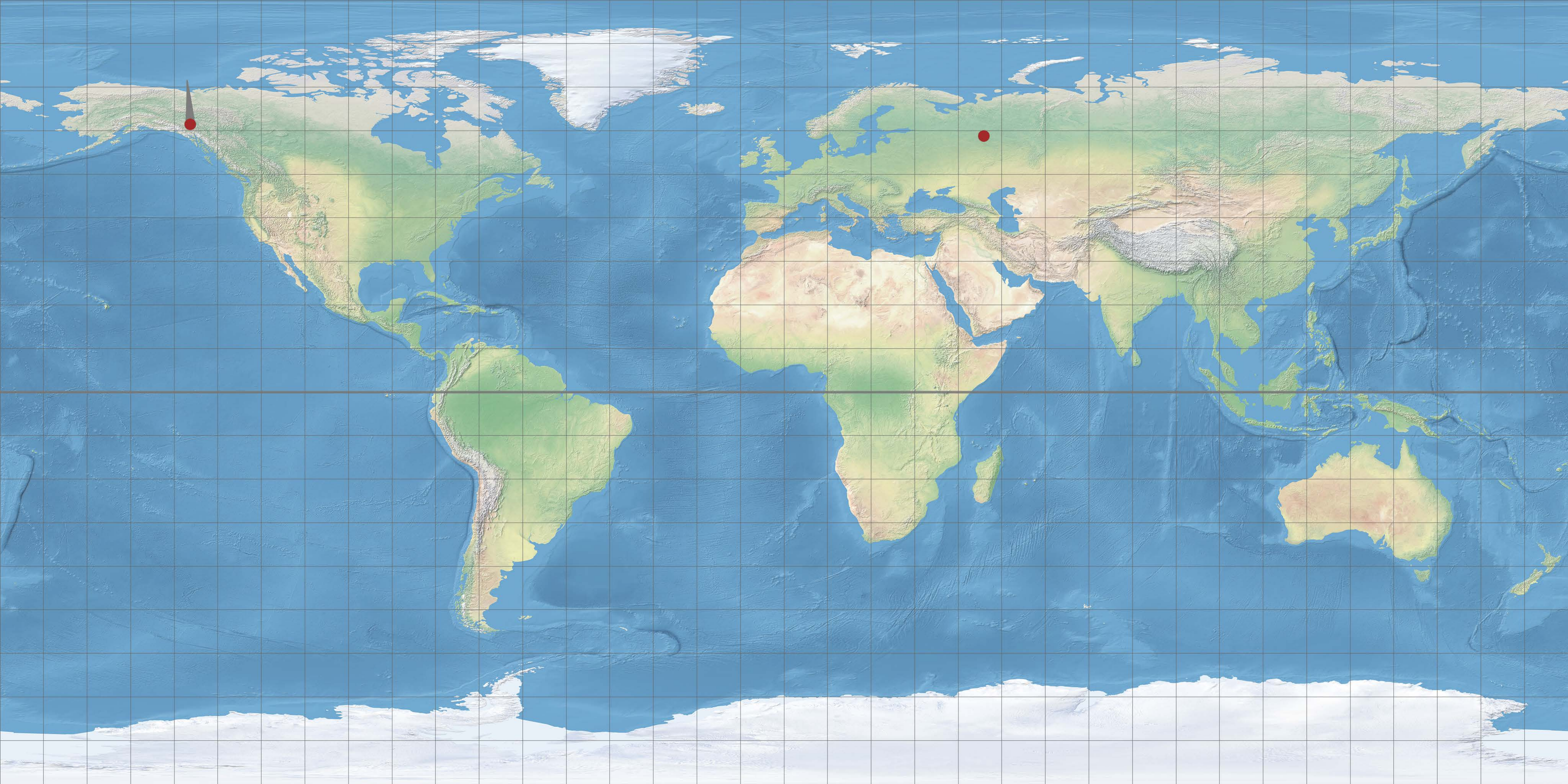


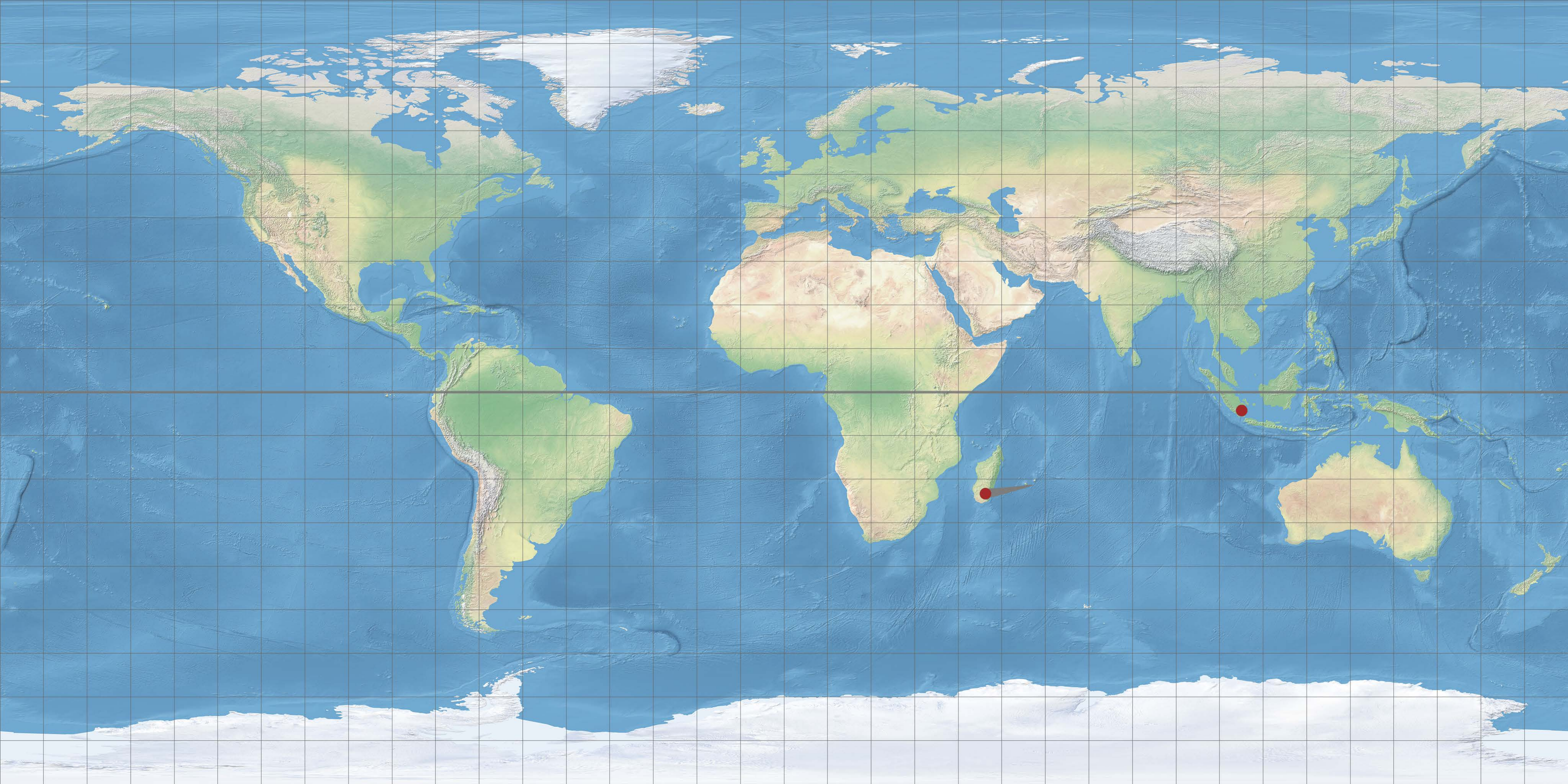


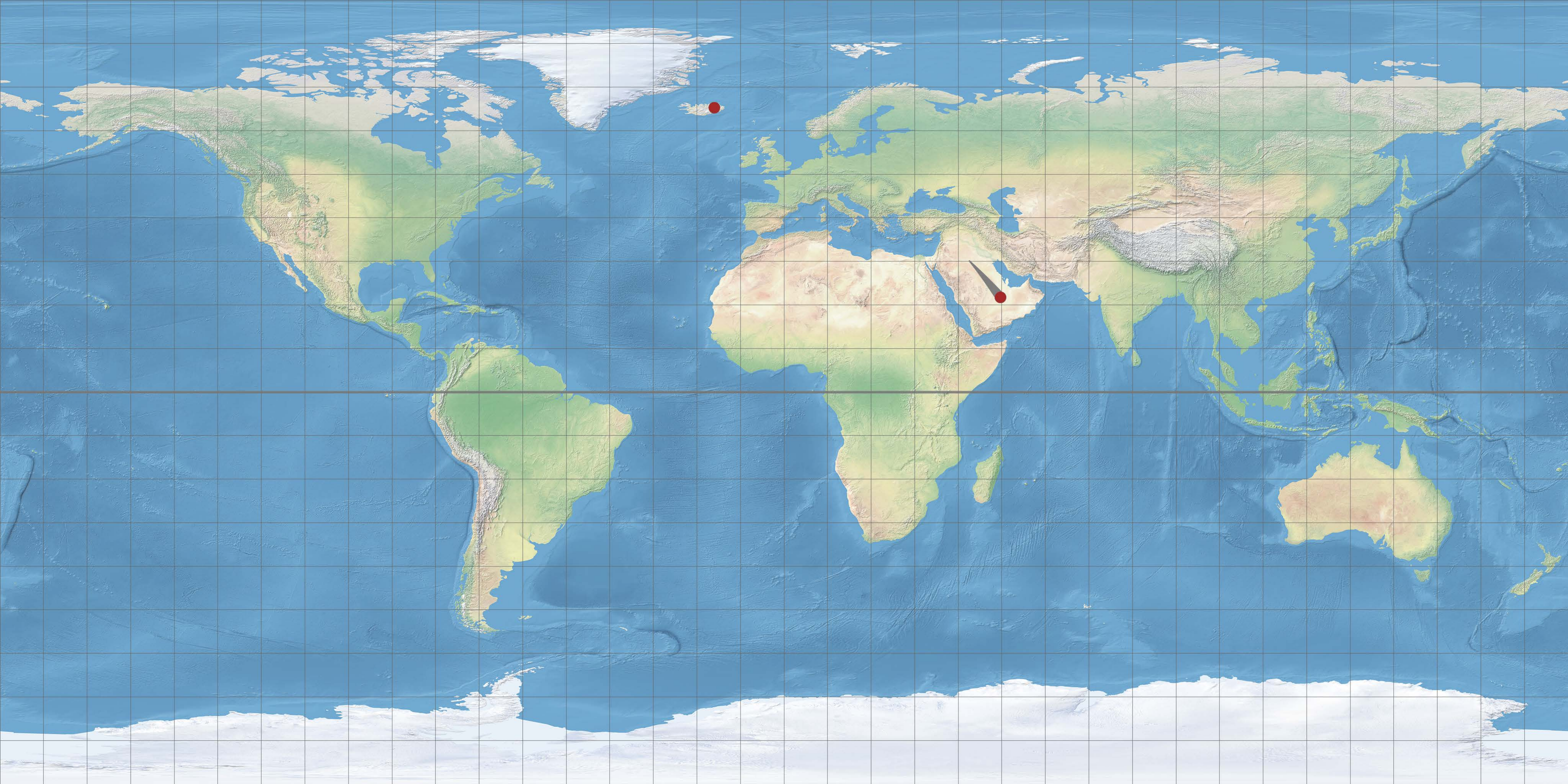


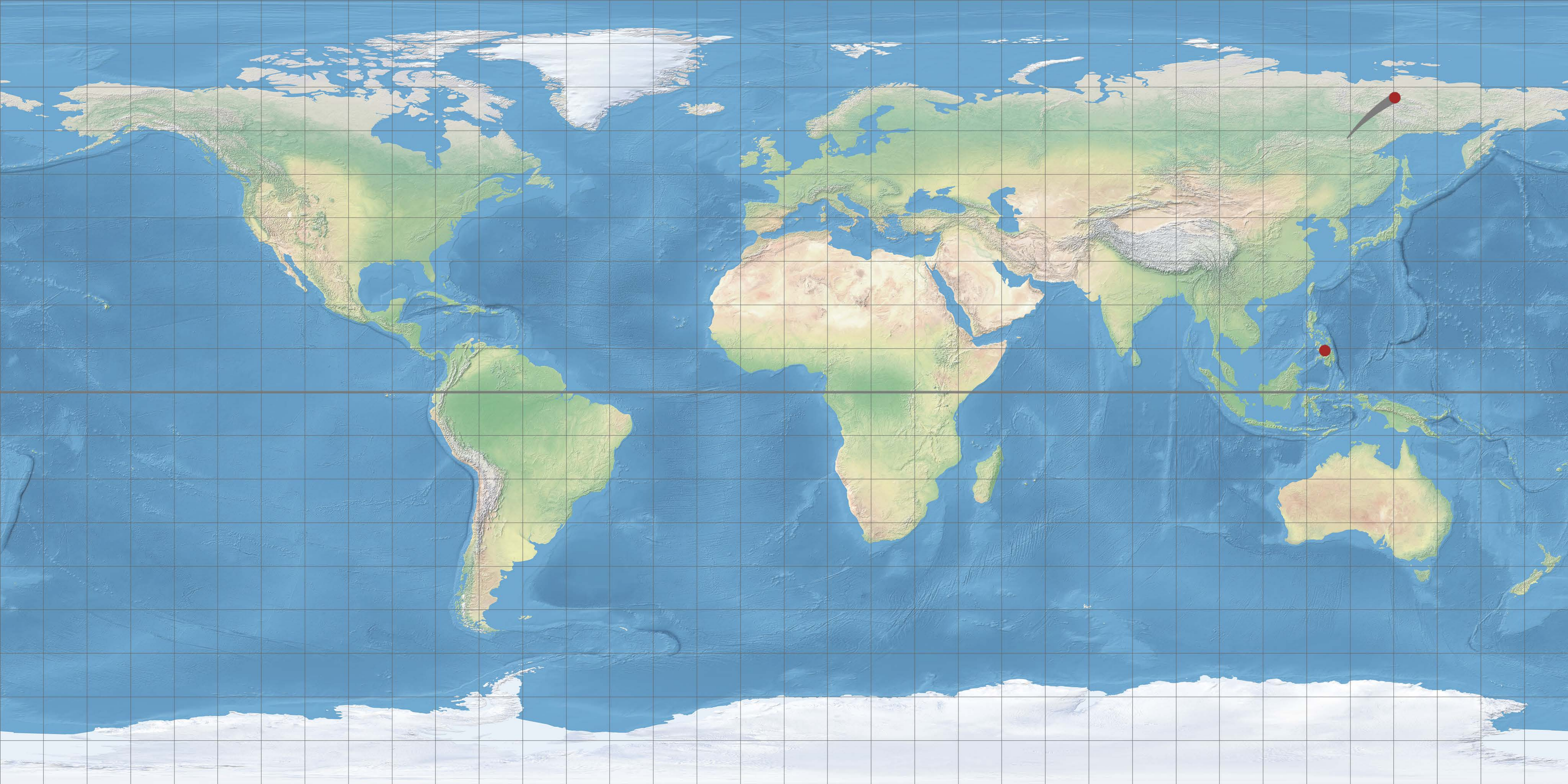


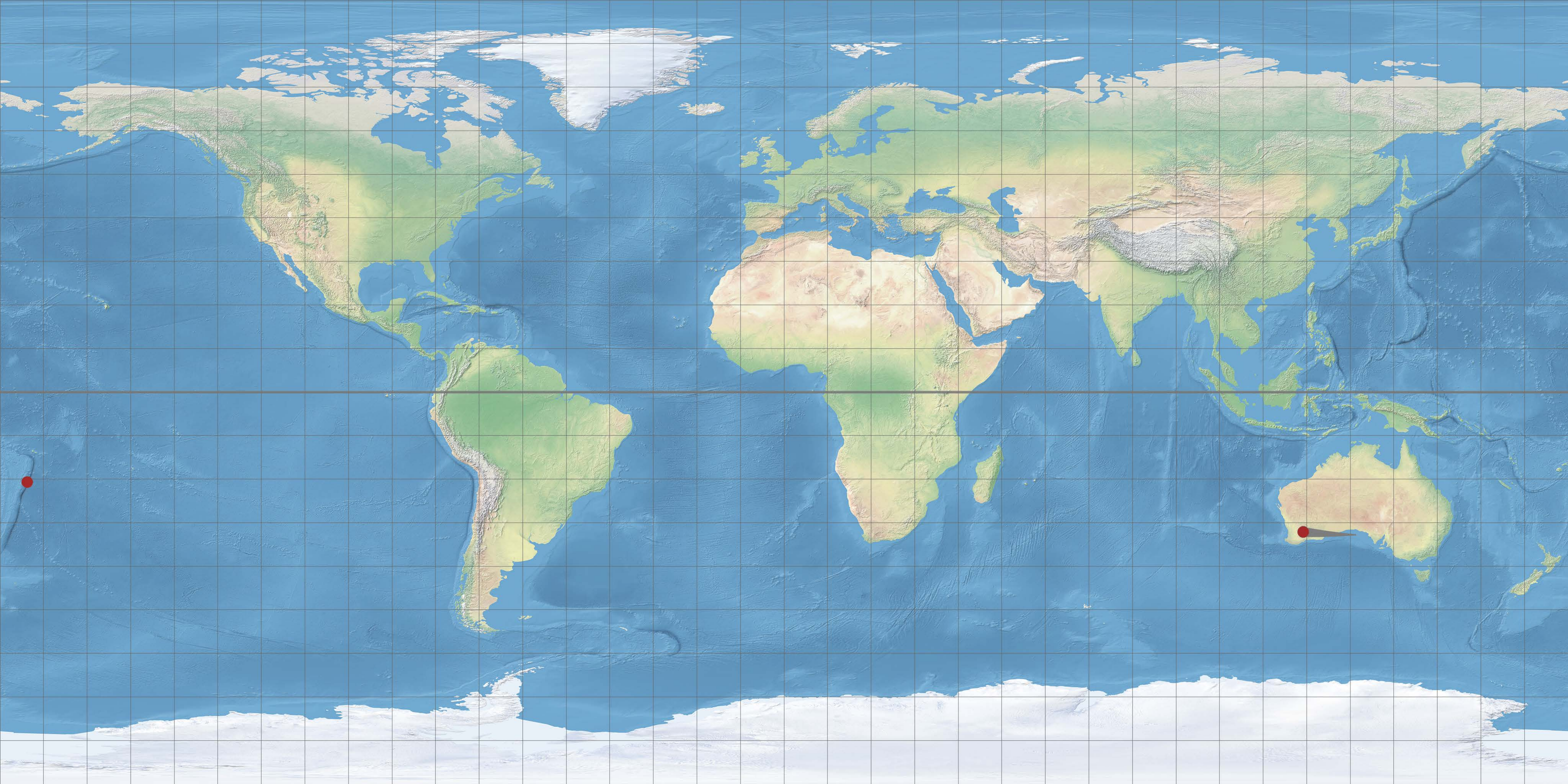


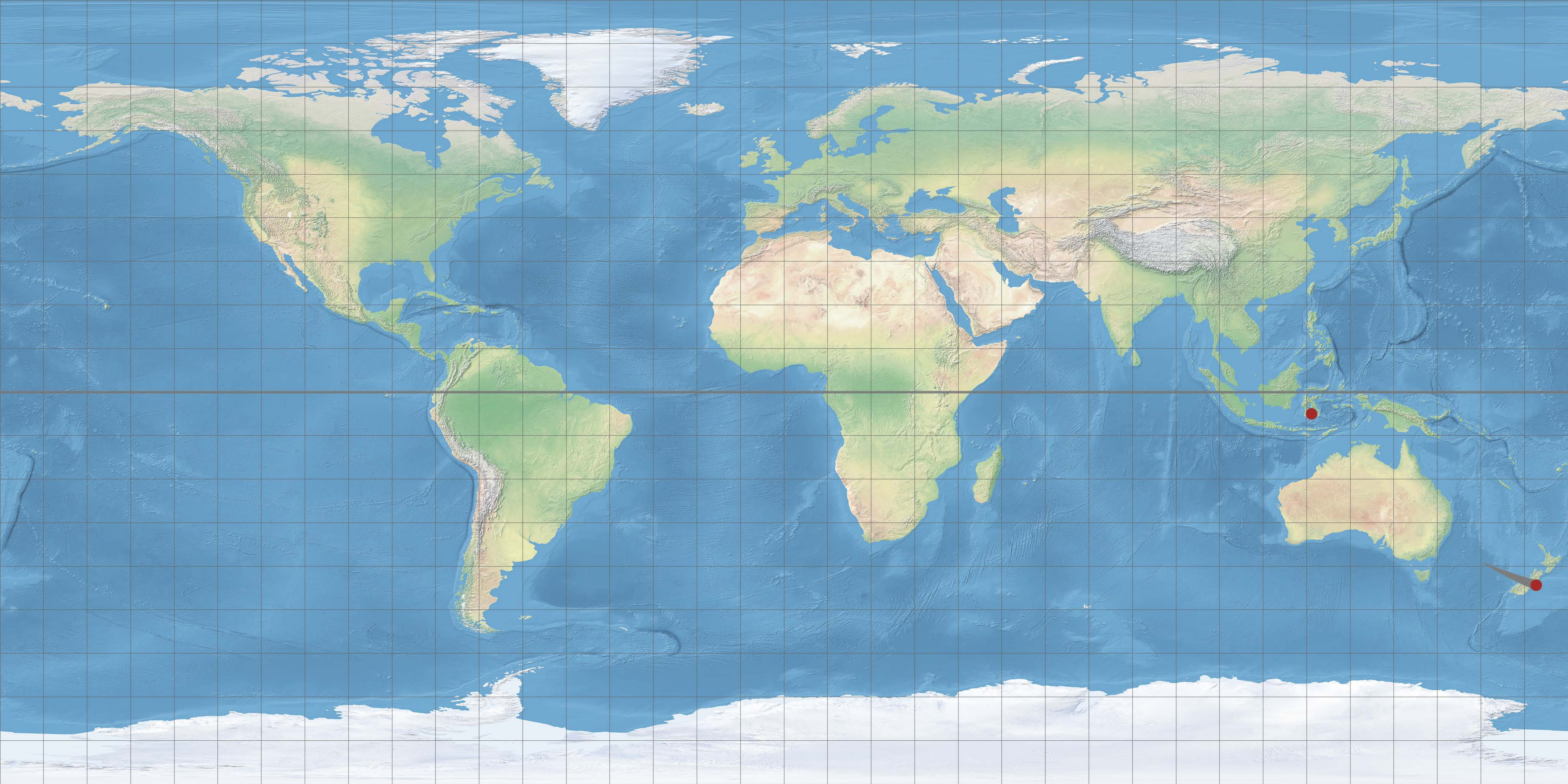


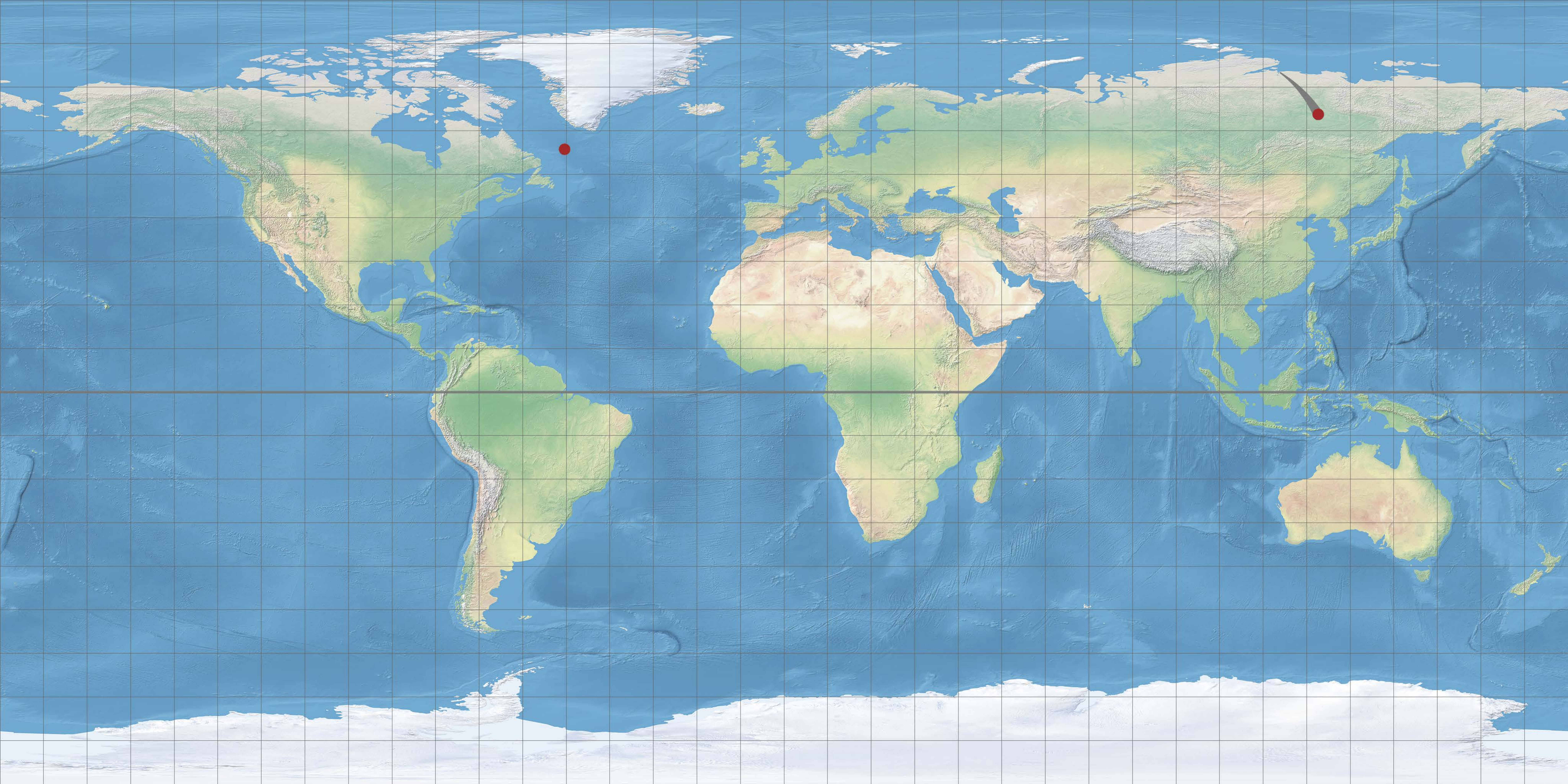


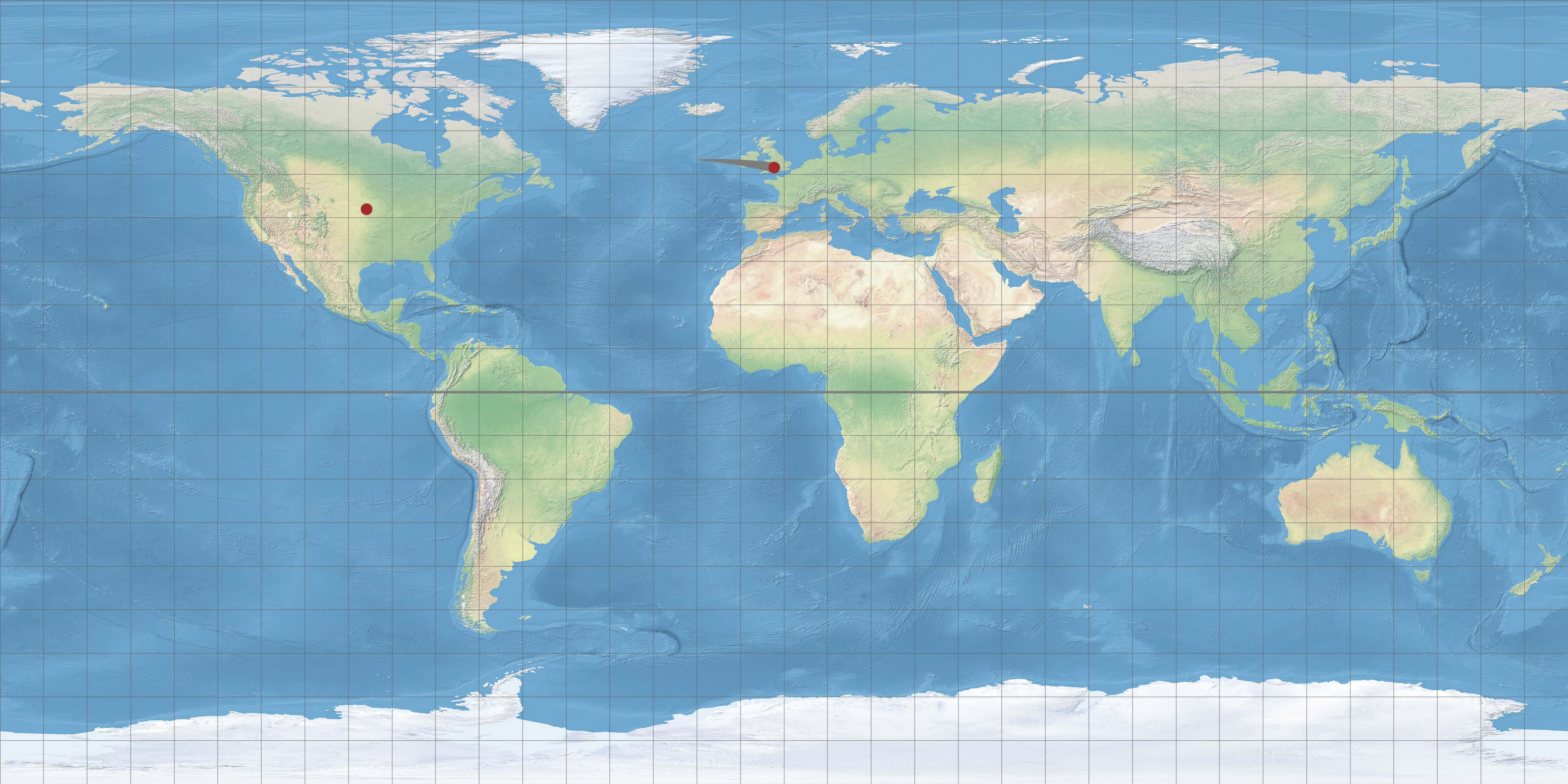


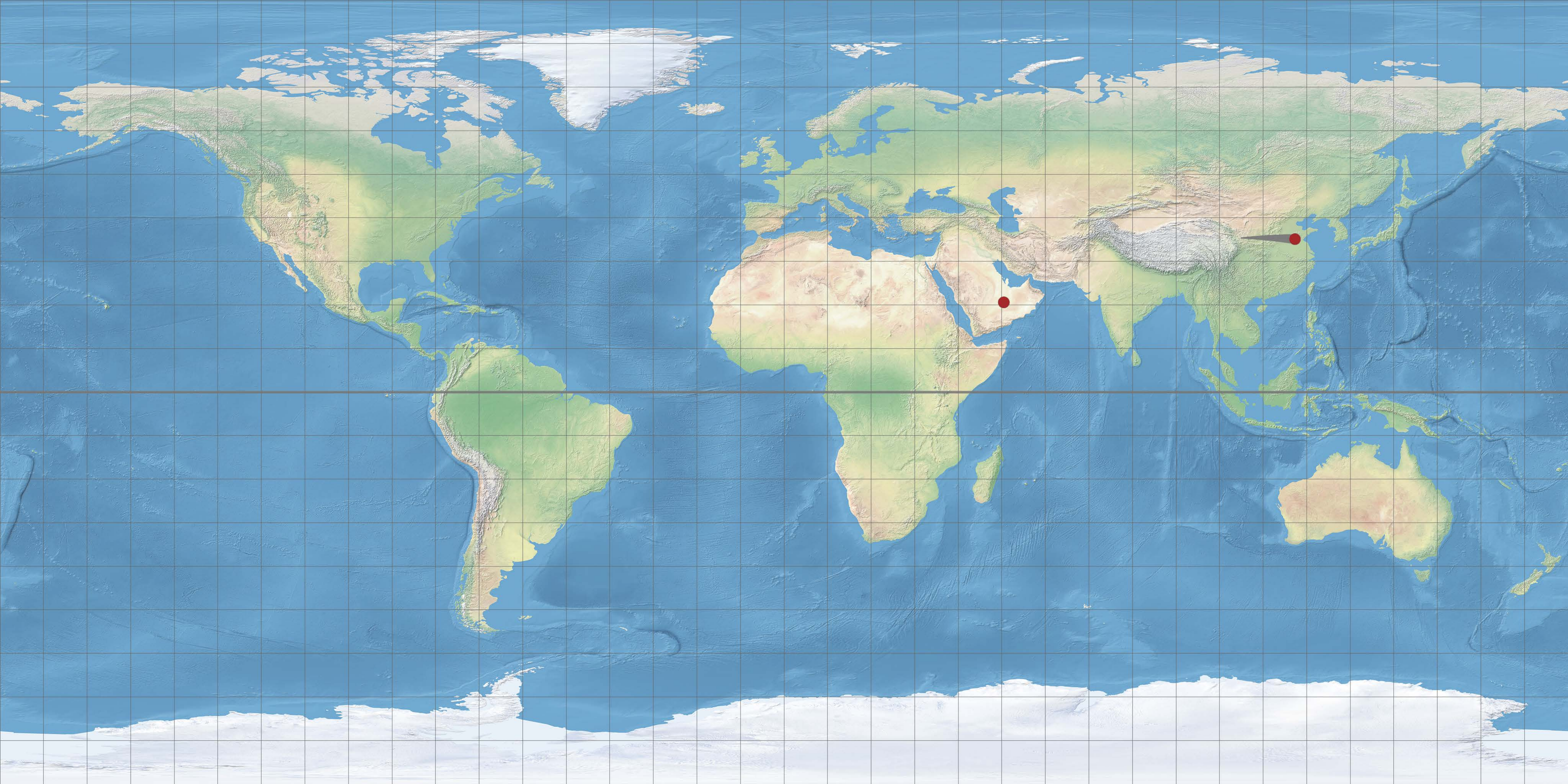


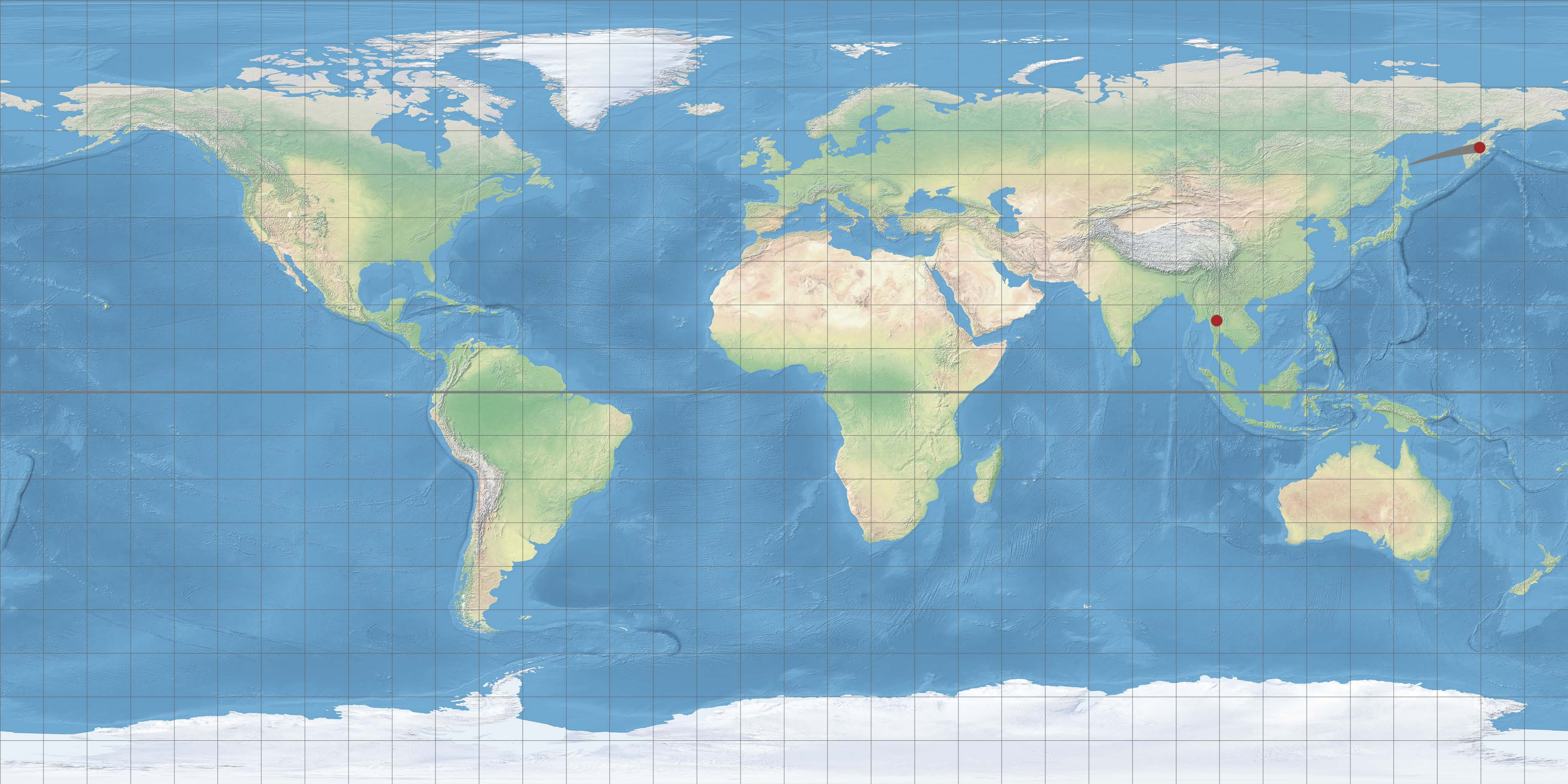












Direction estimation
Far distance condition

