



SPATIAL DATA: MAP PROJECTIONS

Dr Alexandra Anderson



A step-change in
quantitative social
science skills
Funded by the
Nuffield Foundation,
ESRC and HEFCE

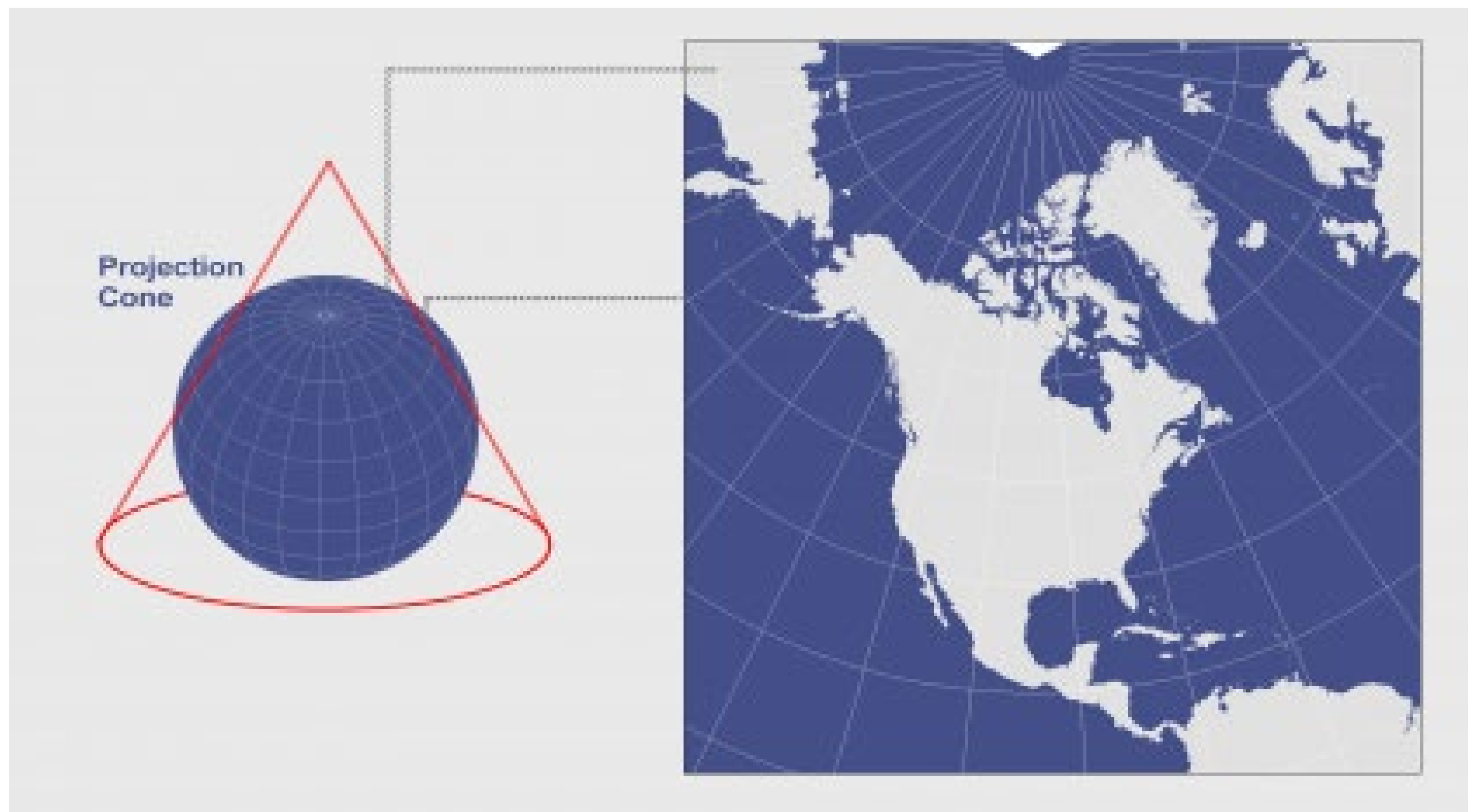




“NO FLAT MAP CAN MATCH THE GLOBE IN PRESERVING AREAS,
ANGLES, GROSS SHAPES, DISTANCES, AND DIRECTIONS, AND ANY
MAP PROJECTION IS A COMPROMISE SOLUTION.”

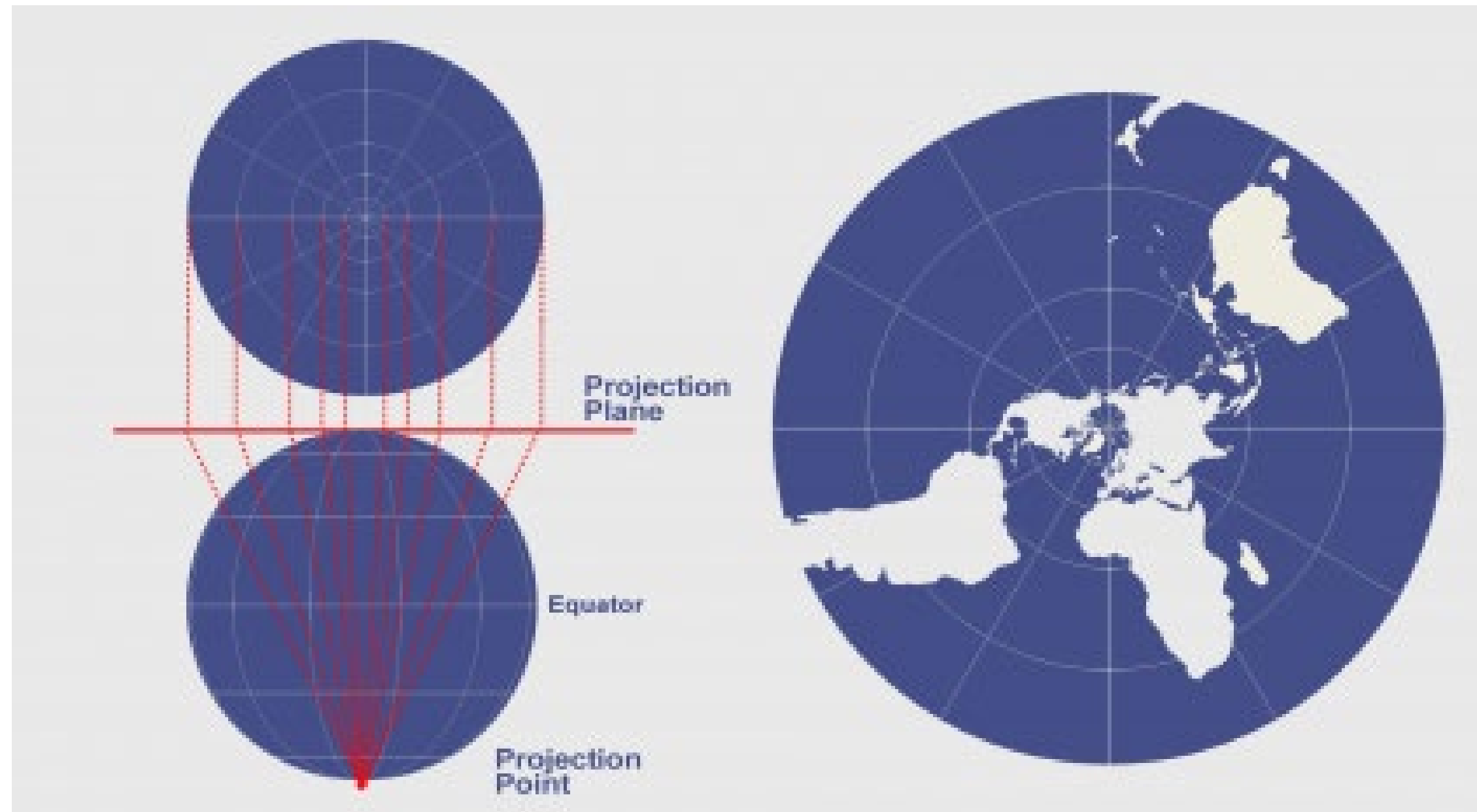
- MARK MONMONIER 'HOW TO LIE WITH MAPS'

CONIC PROJECTION



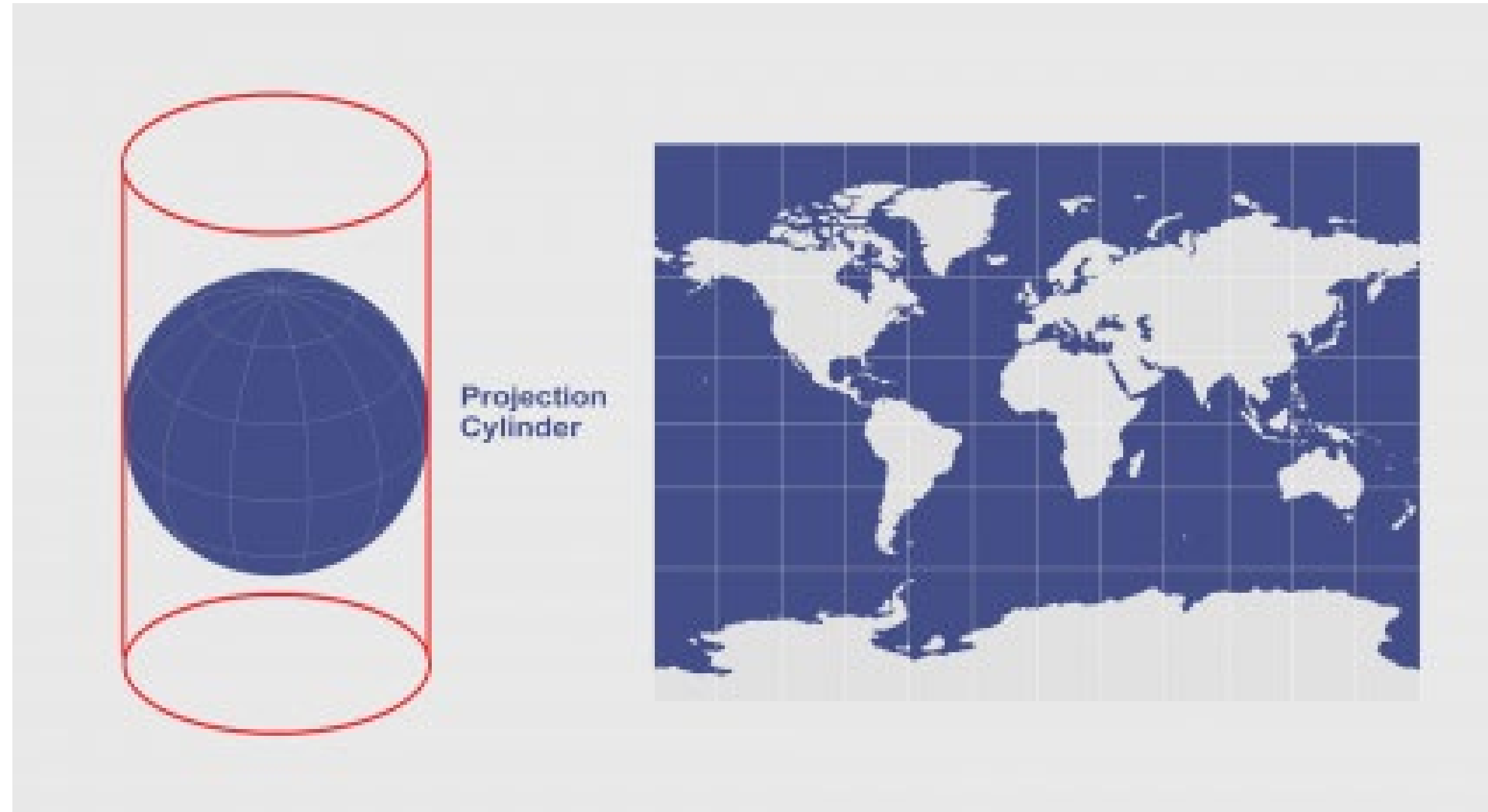
Source: GIS Geography (2020) 'What Are Map Projections? (and why are they deceiving us)'

AZIMUTHAL PROJECTION



Source: GIS Geography (2020) 'What Are Map Projections? (and why are they deceiving us)'

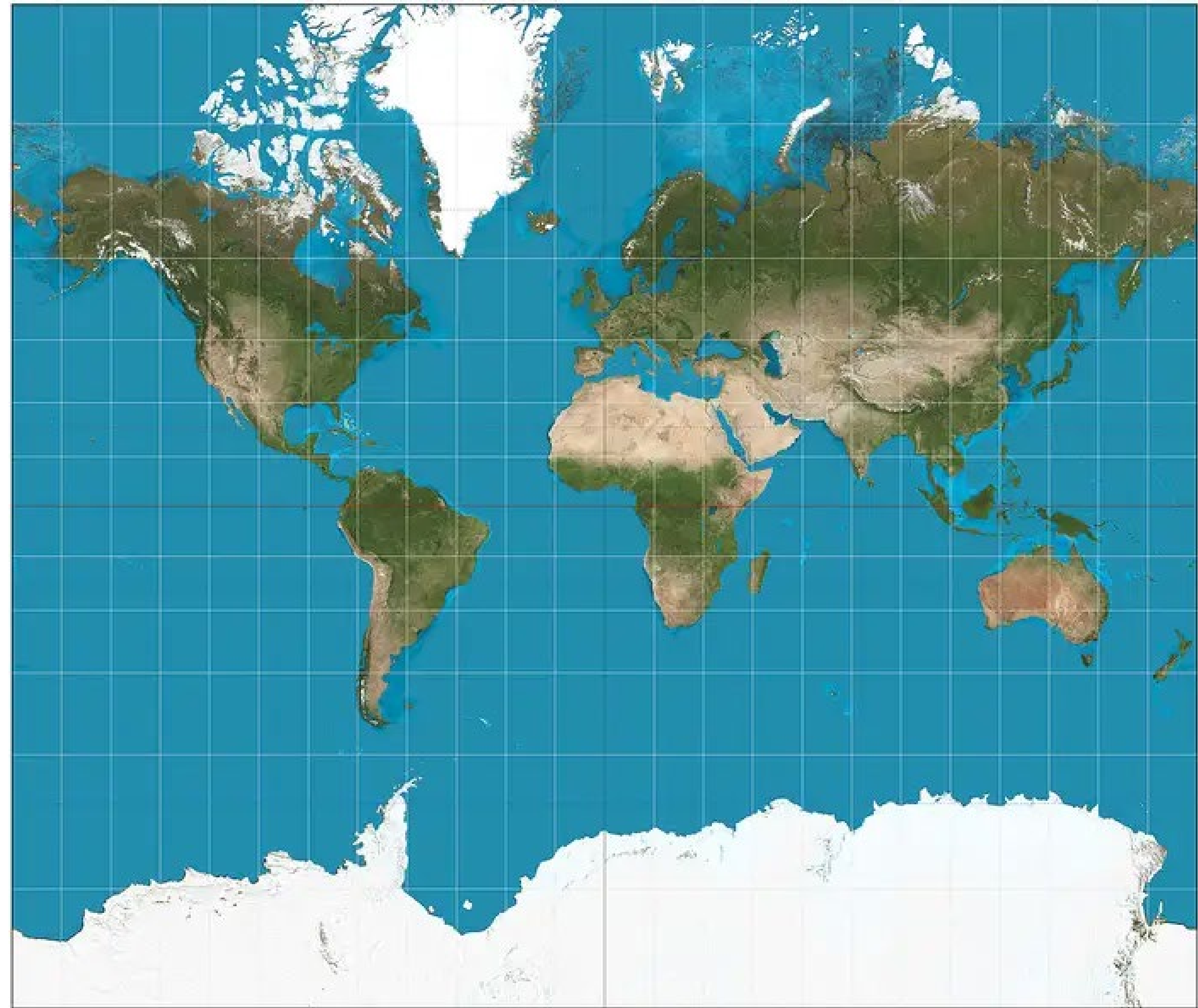
CYLINDRICAL PROJECTION



Source: GIS Geography (2020) 'What Are Map Projections? (and why are they deceiving us)'

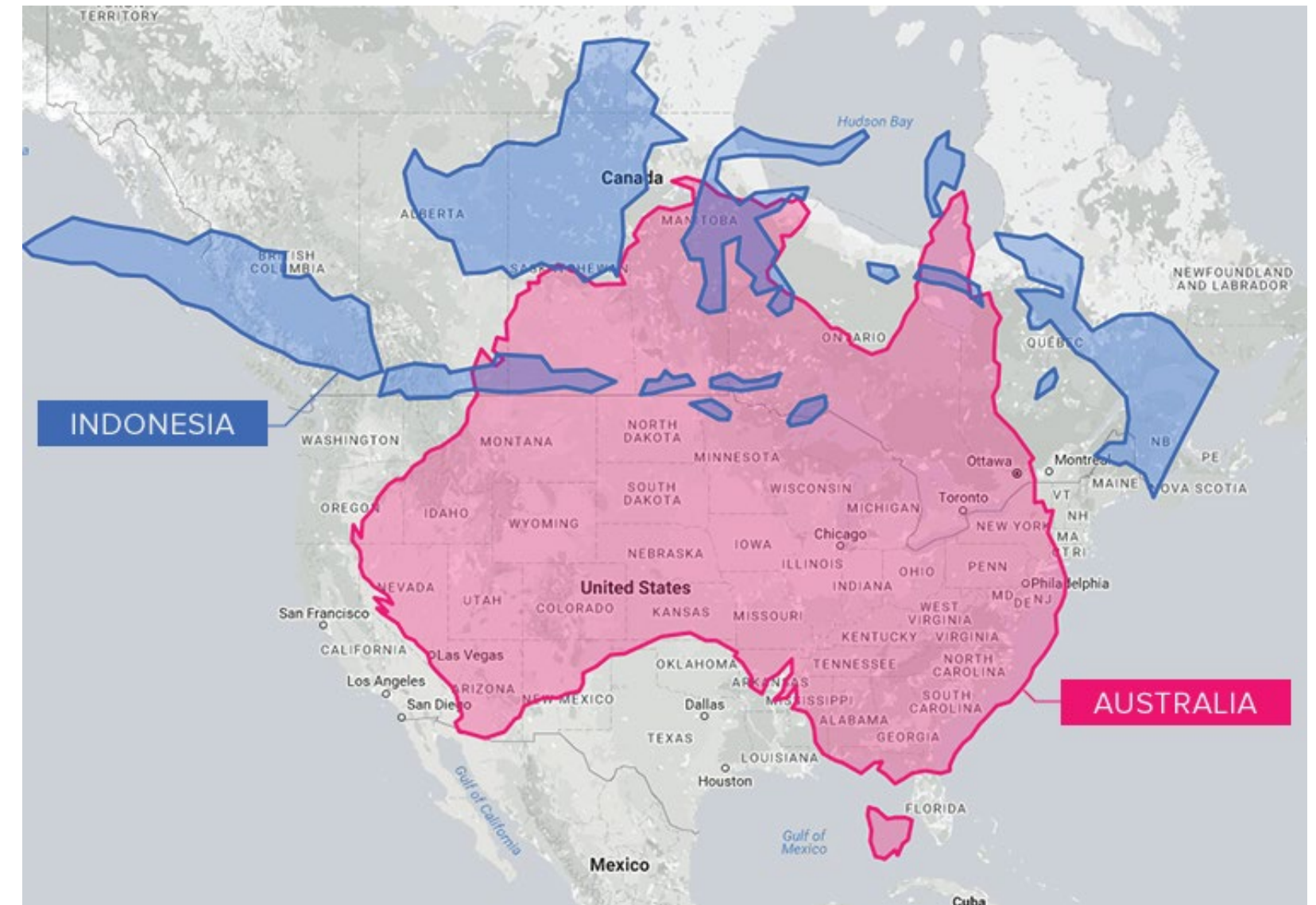


MERCATOR MAP PROJECTION



The Mercator projection. Source: Wikimedia Commons

MERCATOR MAP PROJECTION



Source: Nick Routley(2017) 'The Problem With Our Maps'

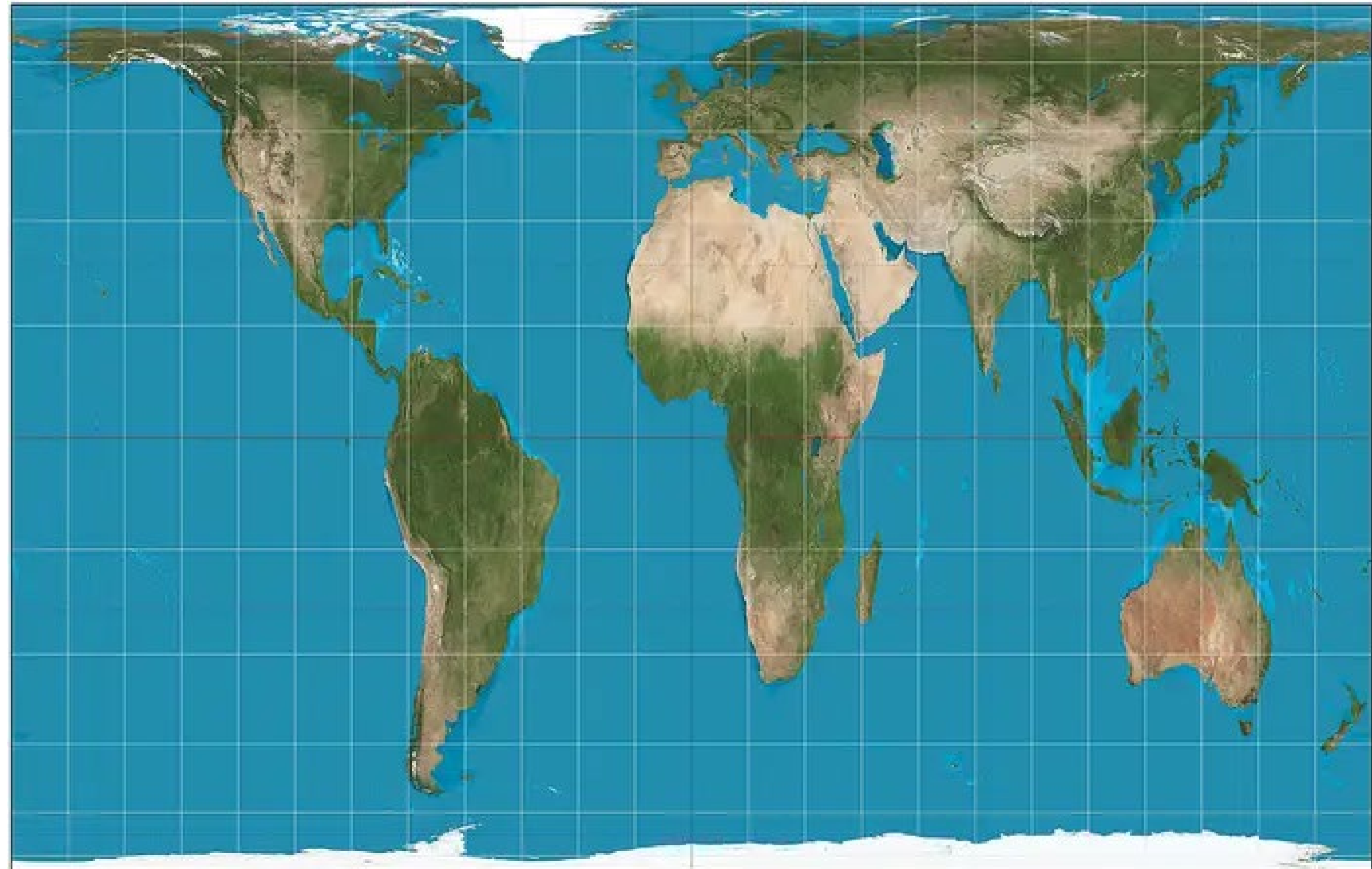
MERCATOR MAP PROJECTION



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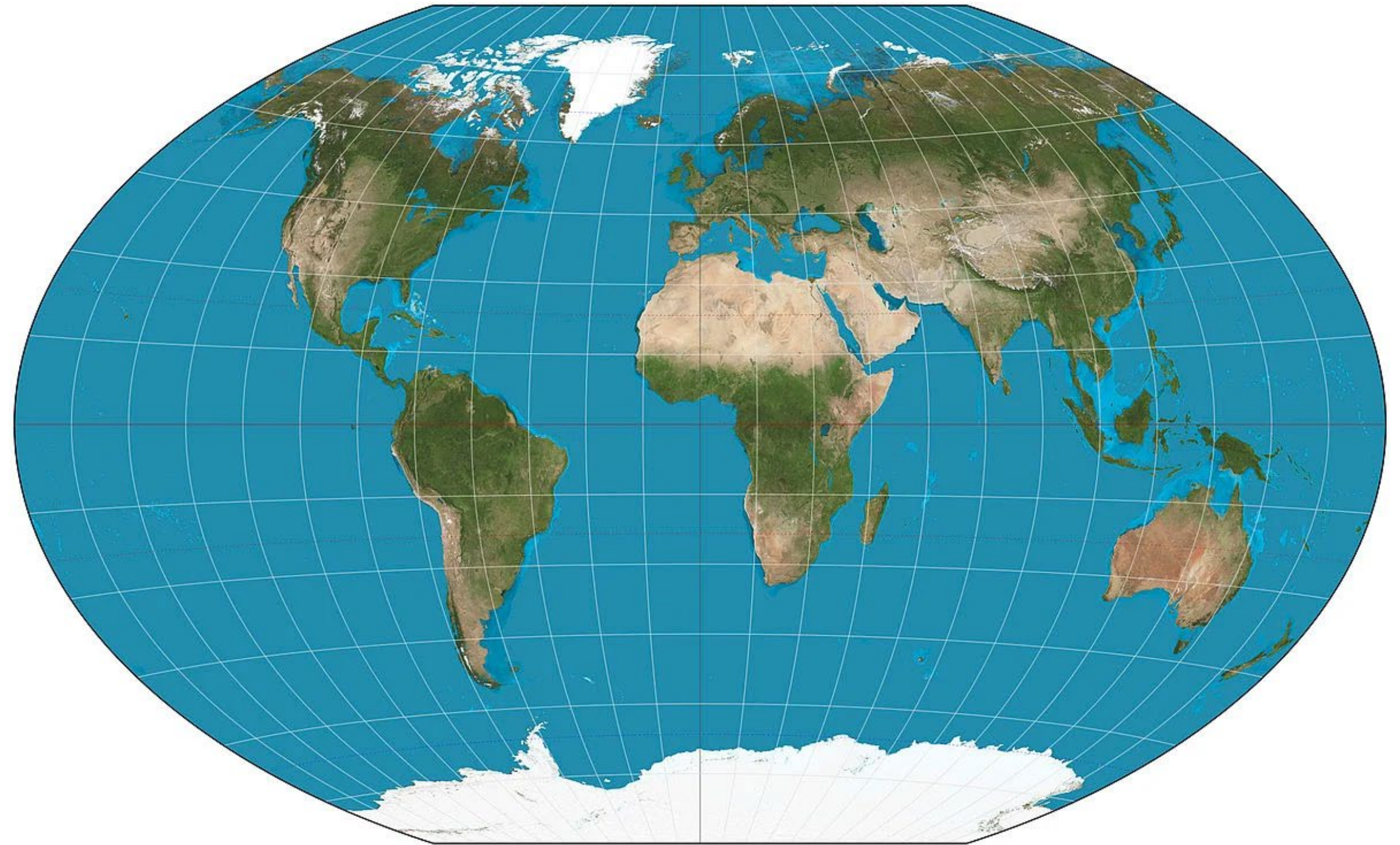
GALL-PETERS PROJECTION



The Gall - Peters projection. Source: Wikimedia Commons



WINKEL TRIPEL PROJECTION



The Winkel Tripel projection. Source: Wikimedia Commons



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