Projections logbook

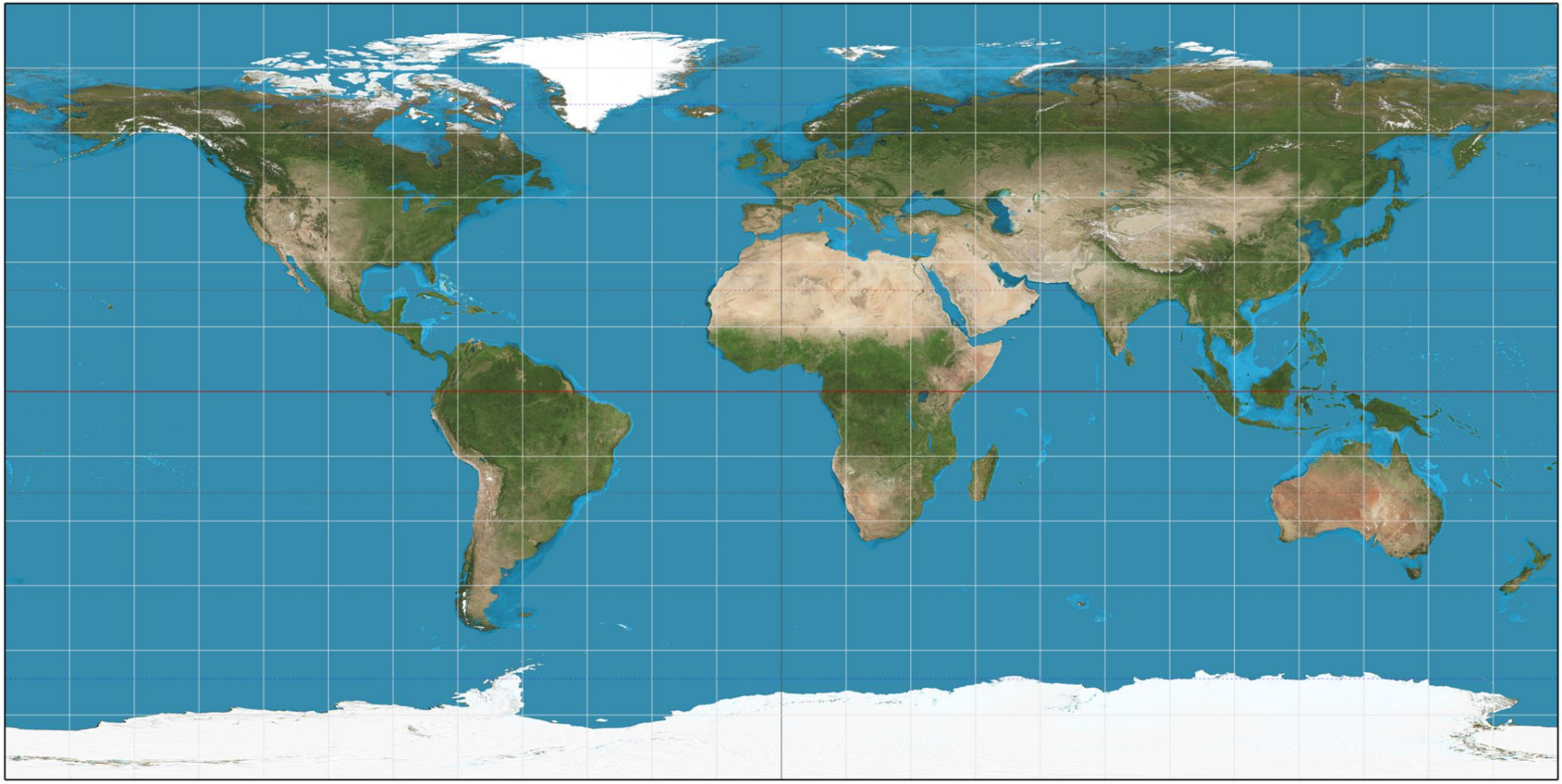
https://www.youtube.com/watch?app=desktop&v=bpp0xCknQAQ

A way to rank different projections

- Shape, if shape on the globe looks the same as shape on the map
- Size, size of landmass should be the same on globe and map
- Orientation ,north is up south is down ect.
- Relationship, countries should have clear relations with hteir bordering country(ex a spiral map will have little relationship b/c there are spaces when the landmass is connected)

Equirectangular

X = longitude y = latitude



Mercator

x=a
y=ln(sec(b)+ tan(b))
Best for navigation,.
Use one straight line.
1569 flemish gerardus mercator

Meridians and Parrarrarrles

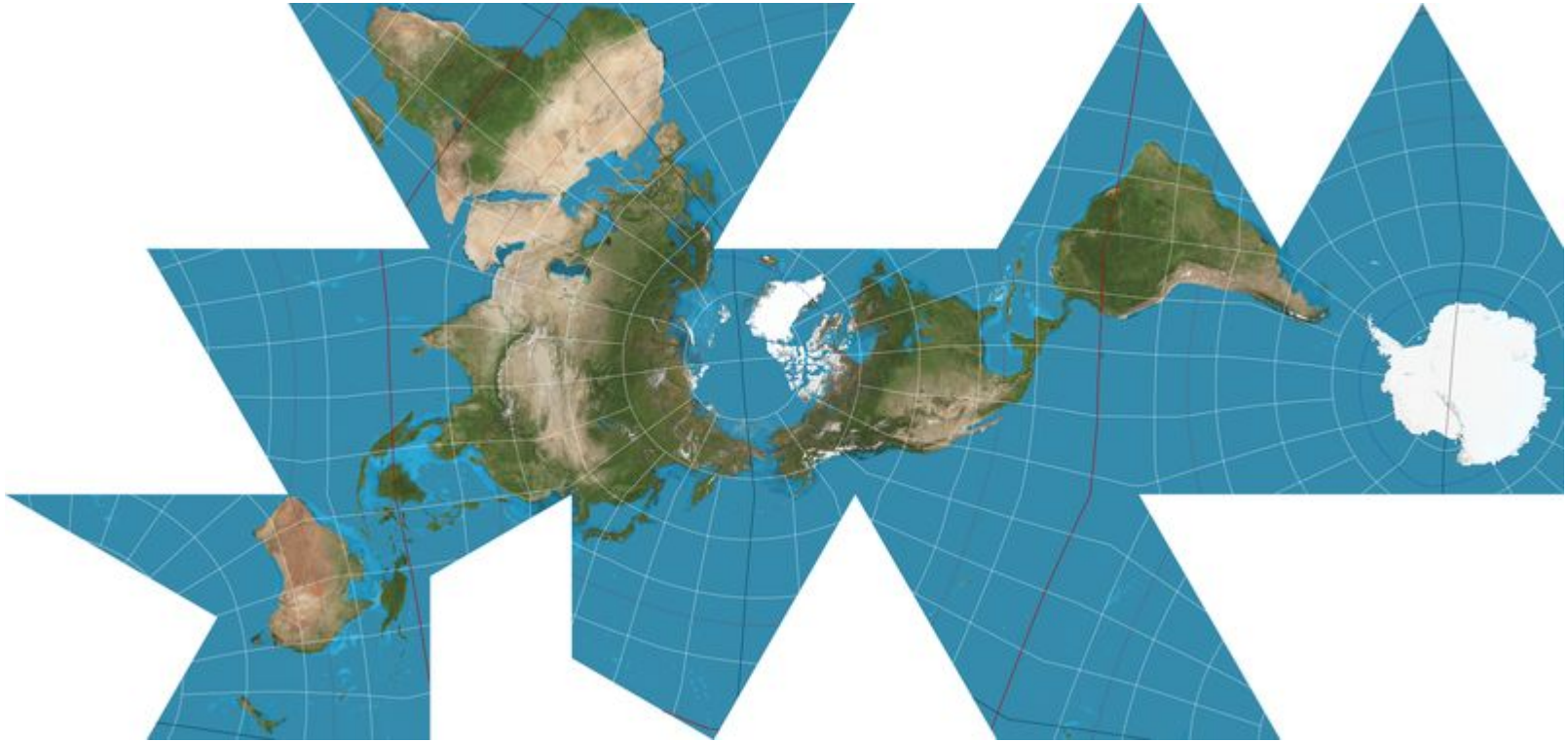
▲ Parallels of latitude divide the globe crosswise into rings.

▲ Meridians of longitude divide the globe from pole to pole.

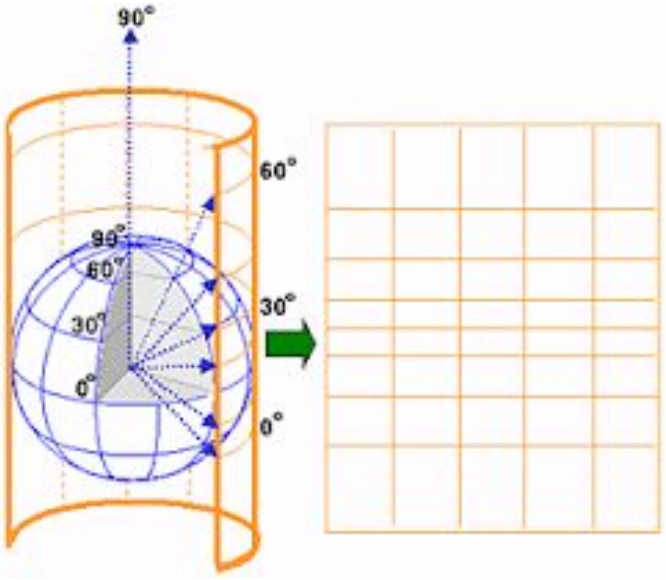
Literal Projections

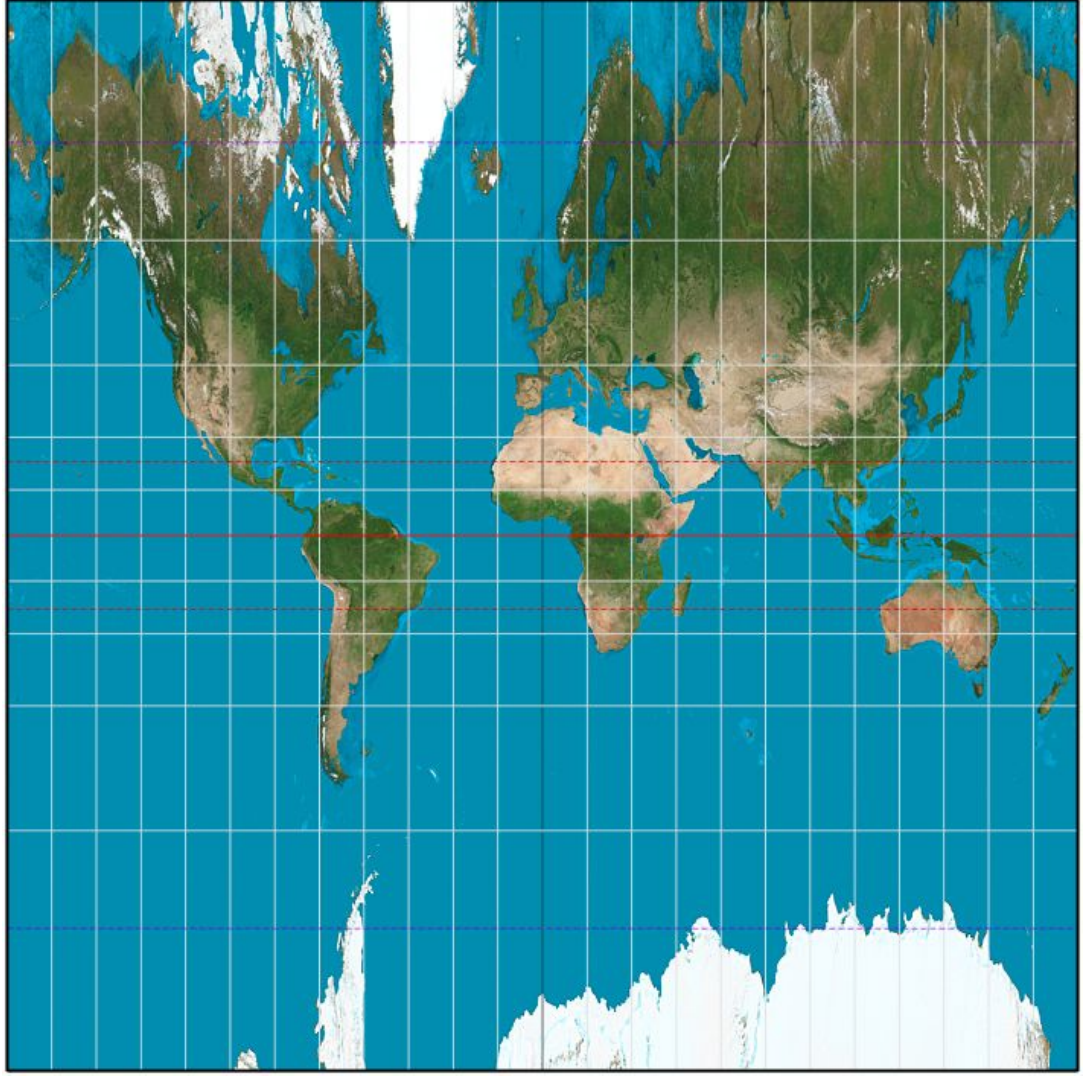
Waterman Butterfly(projected on a truncated octahedron)

Dymaxion(Icosahedron)



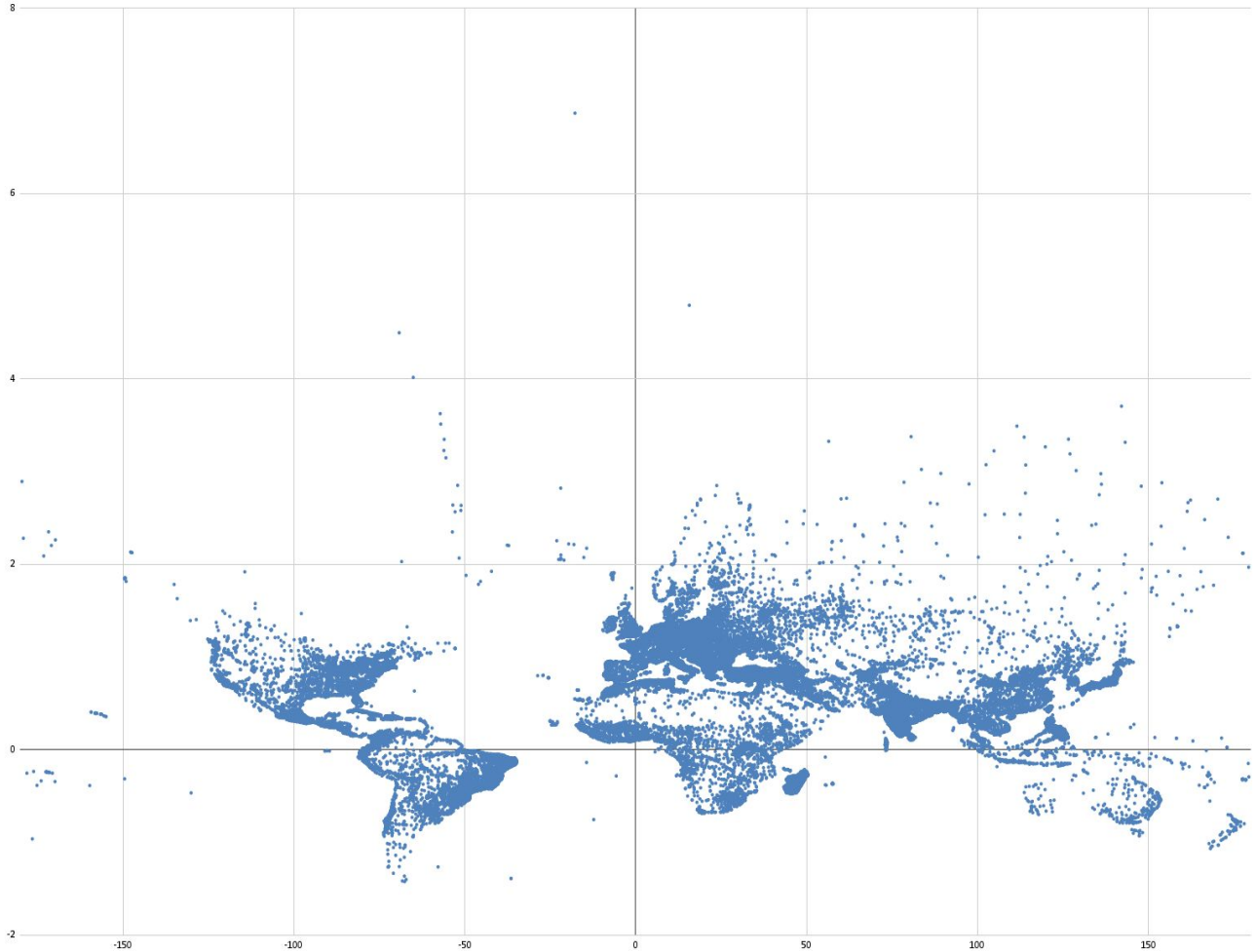
Central Cylindrical (Cylinder)(x=a y=tan(b))



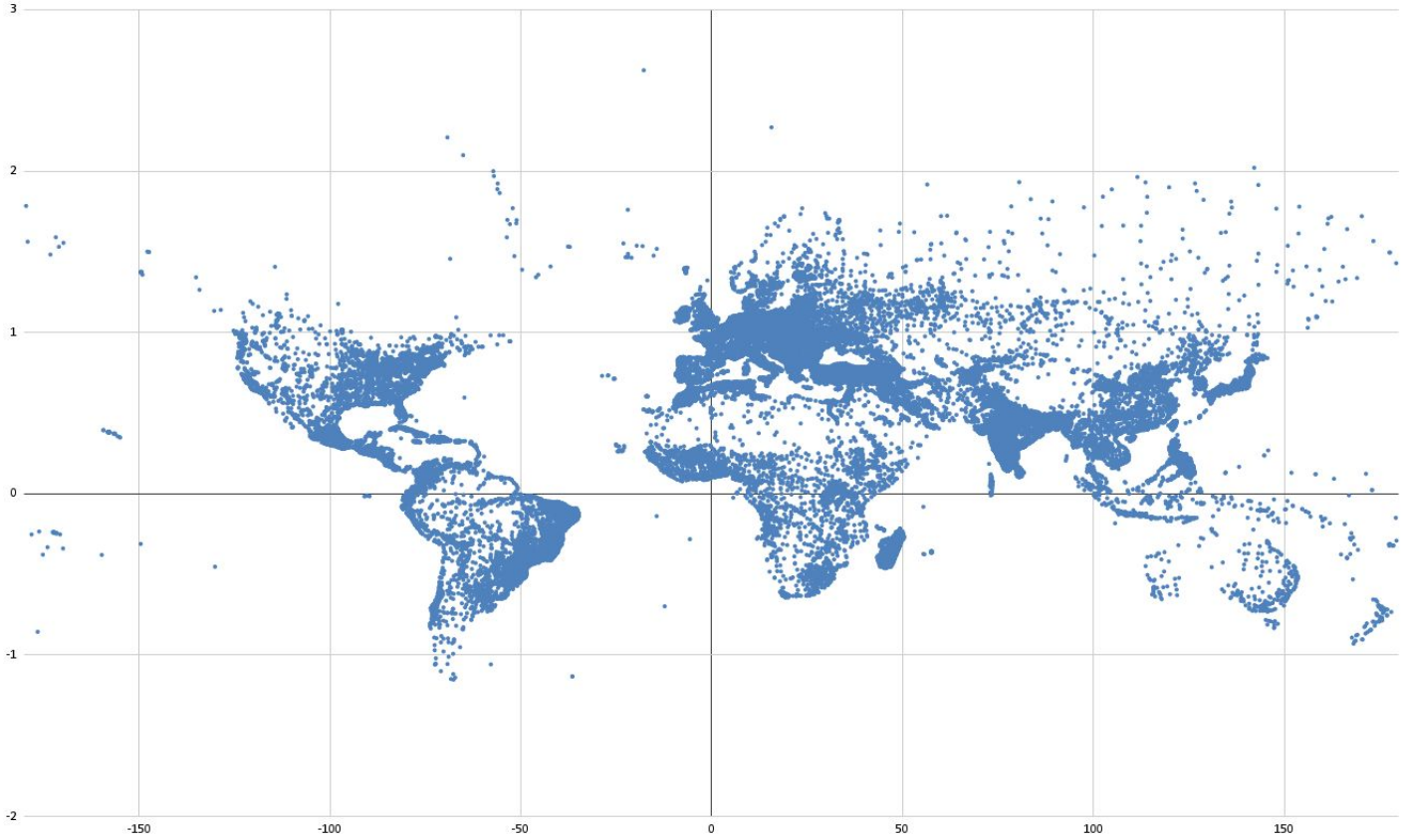


Gall stereographic, sinusoidal, goode homolosine, lambert equal AREA, behrman, hobo-dyer, gall peters, azimuthal equiedistant,COMPROMISES, robinson, mollweide, the times, van der grinten, wagner 6, eckert 2 and 4, winkel triple, natural earth, equal earth, perspective, orthographic

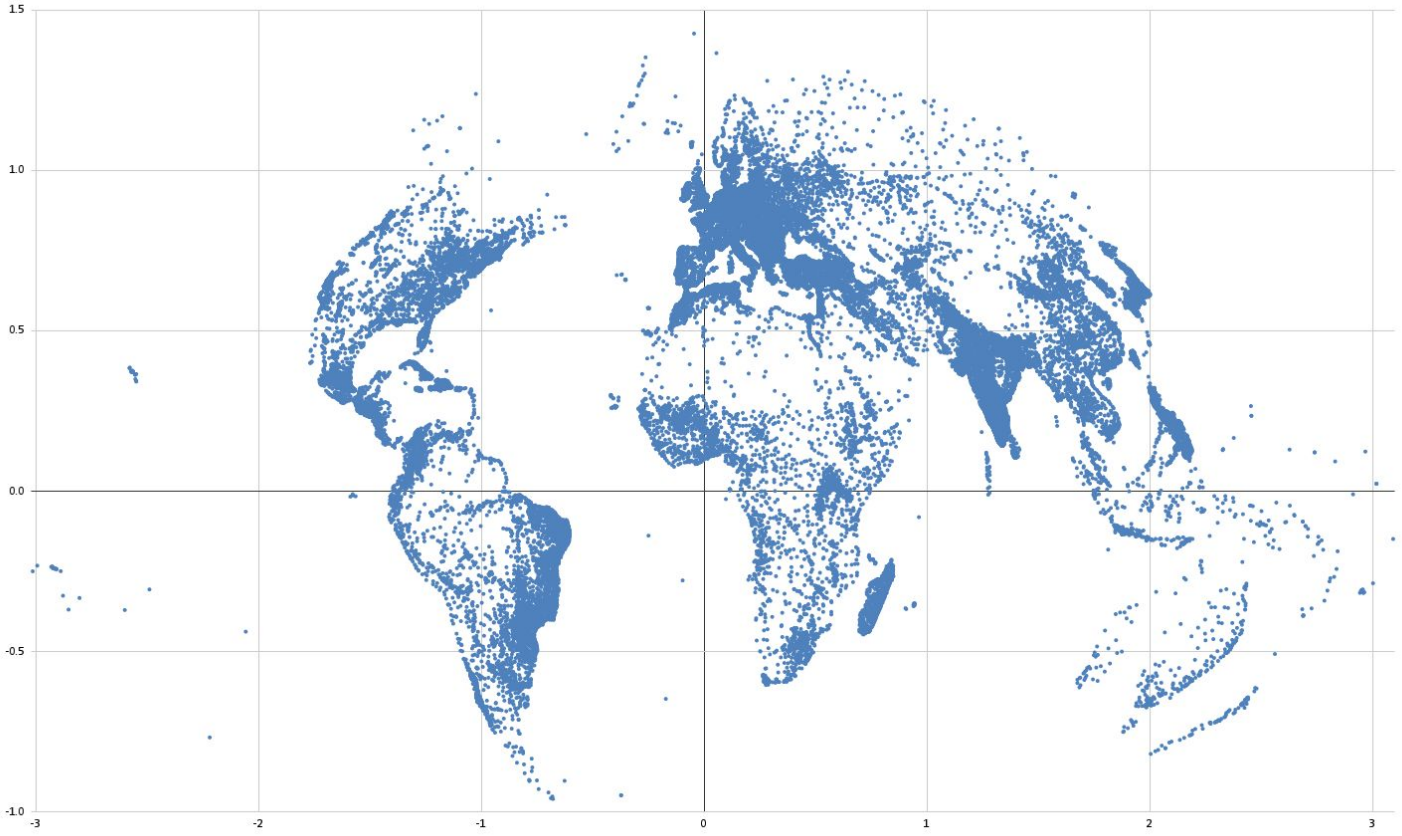
Central Cylindrical



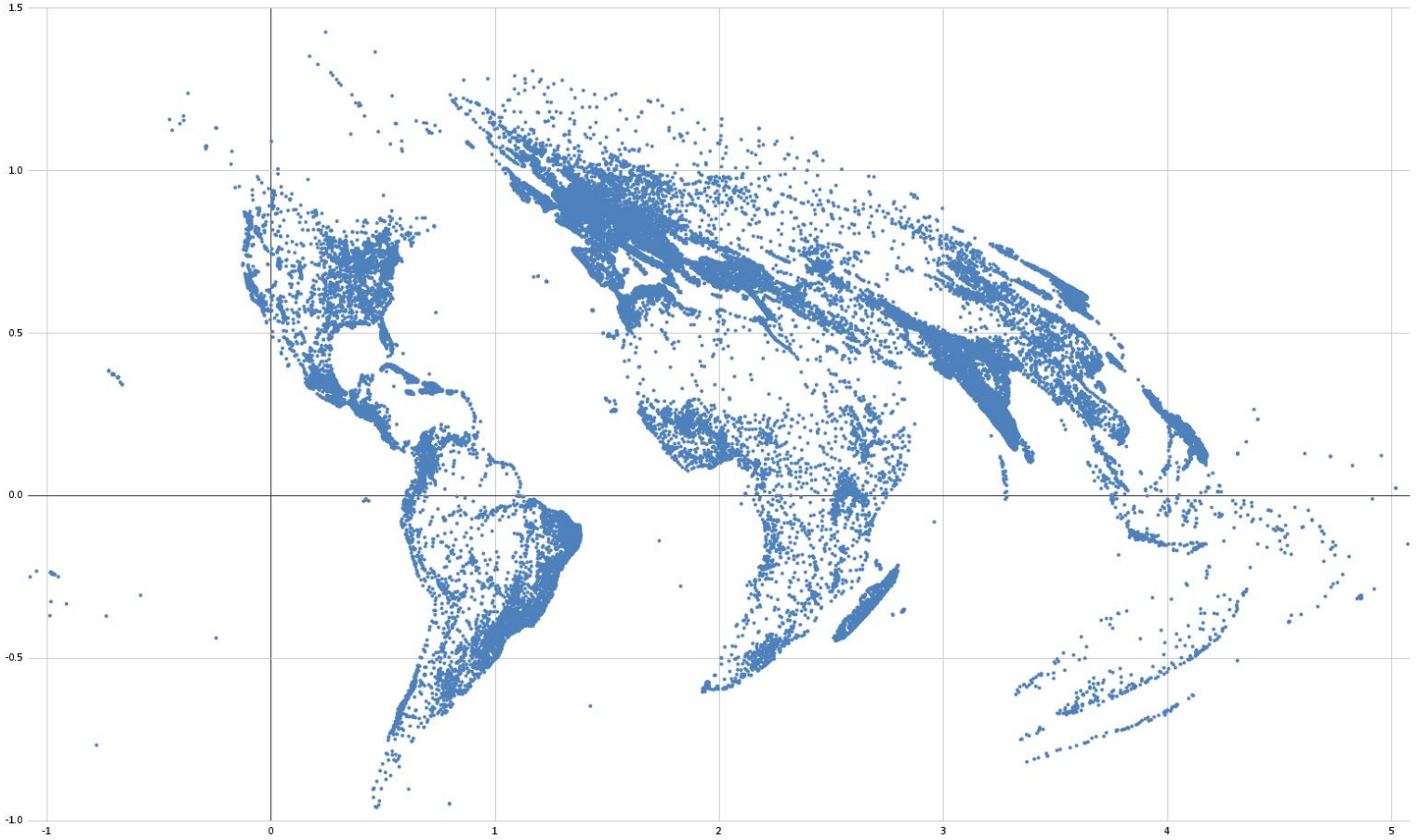
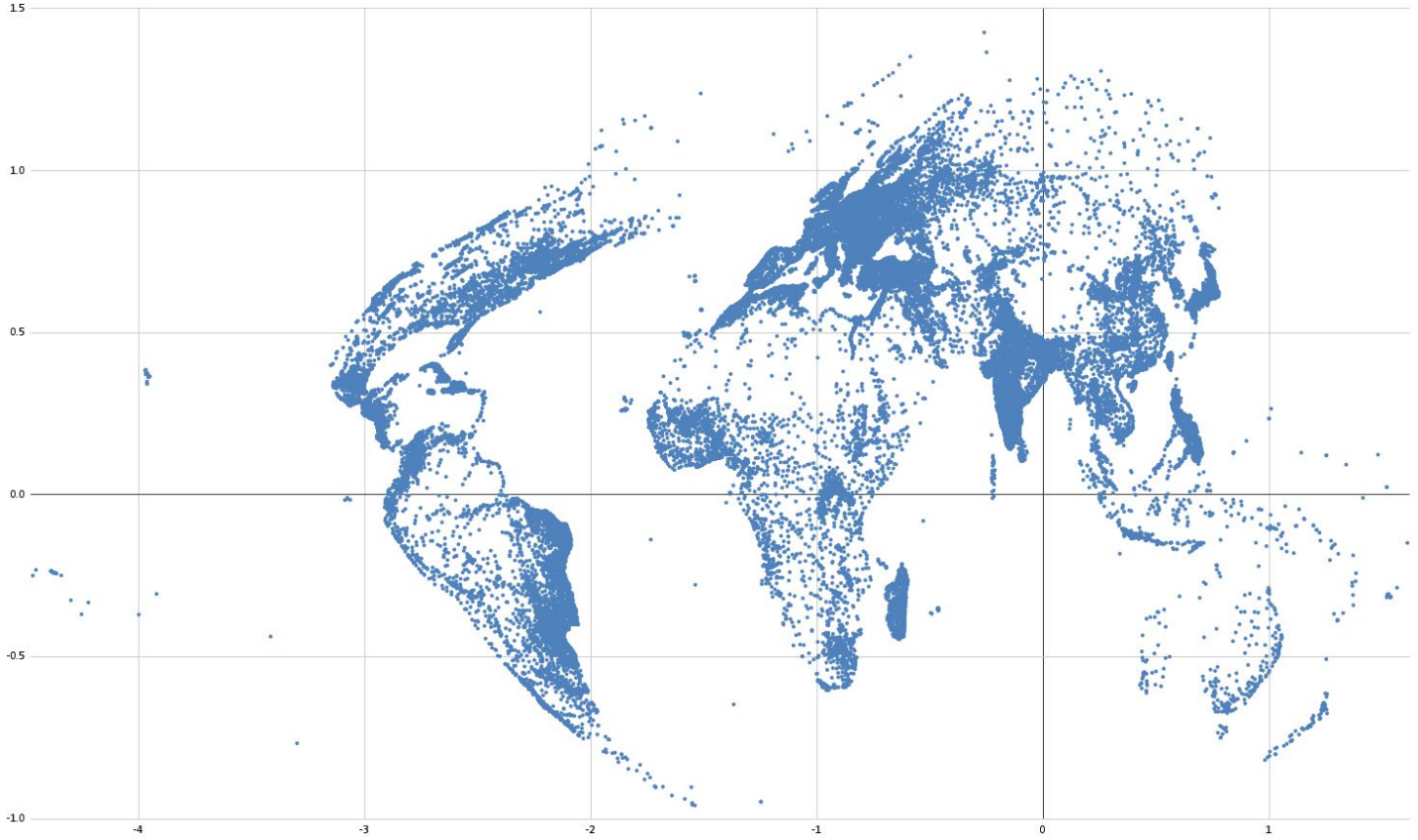
mercator



Sinusoidal



Sinusoidal around west america



Sinusoidal centered around south east asia