

ANÁLISIS GEOESPACIAL

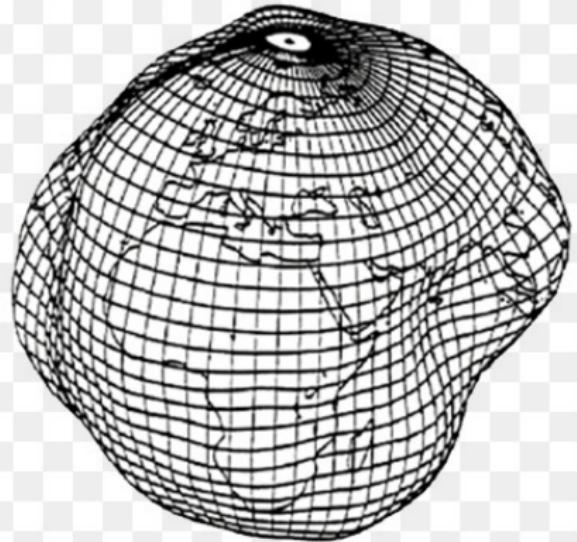
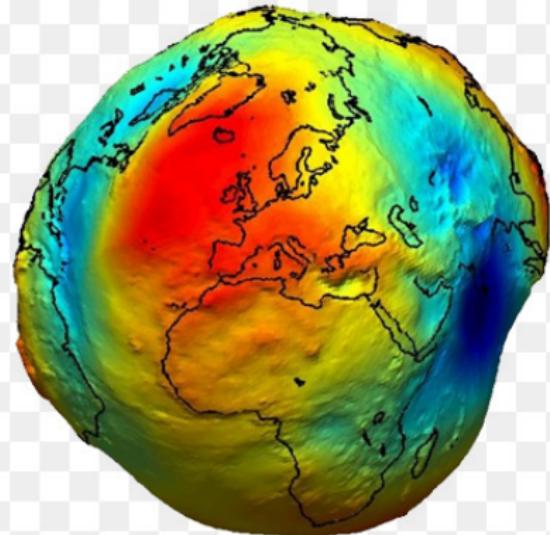
Edier V. Aristizábal G.

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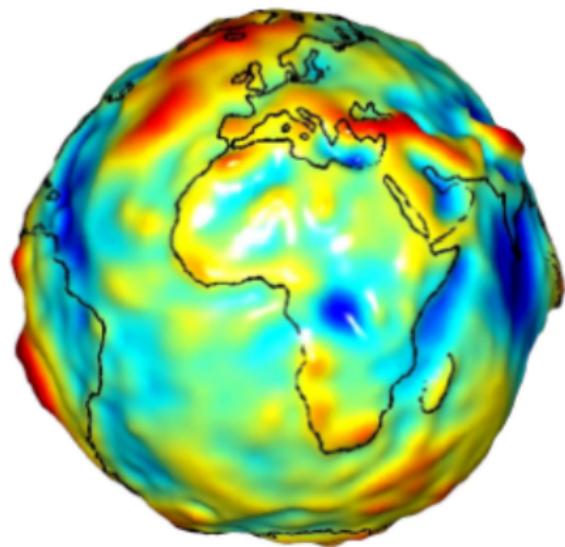
(Versión:September 10, 2020)



The Earth

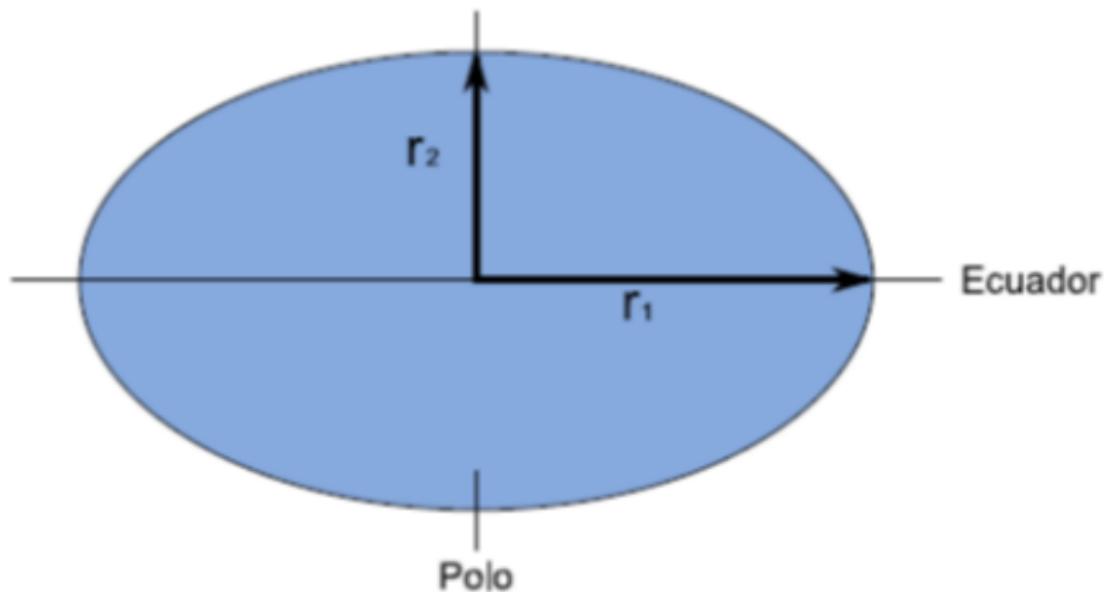


Geoide



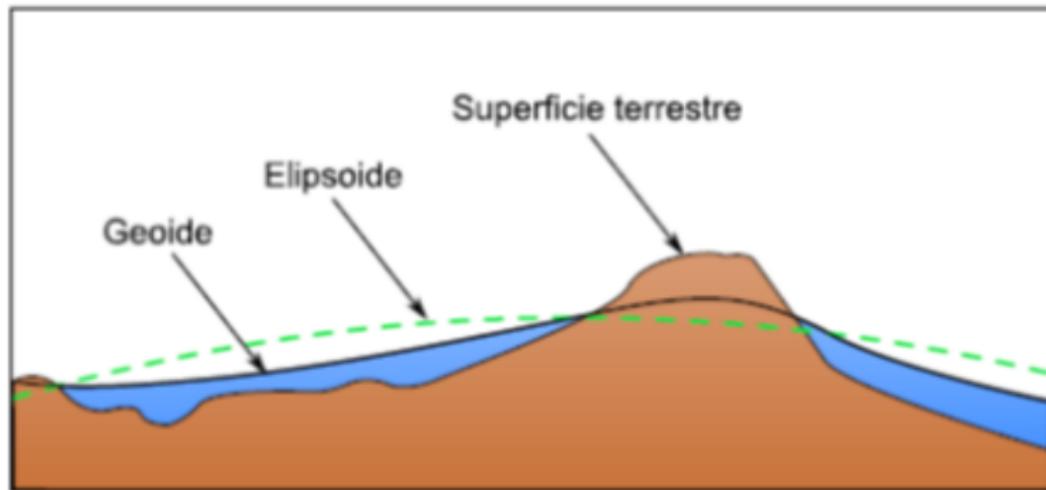
Elipsoide

WGS84

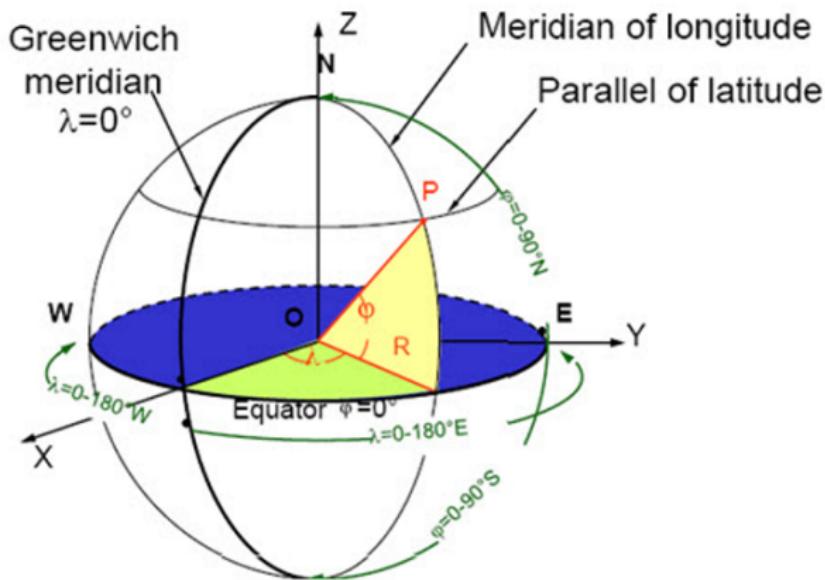


Elipsoide & Geoide

Datum geodésico



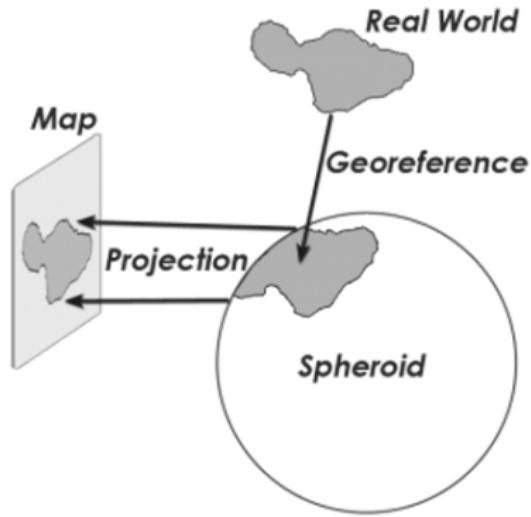
Coordenadas Geográficas



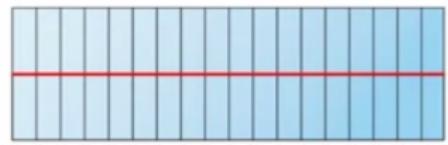
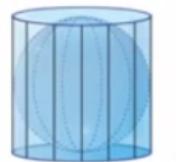
Proyección a Coordenadas Planas

You can't represent Earth's surface in two dimensions without distortion

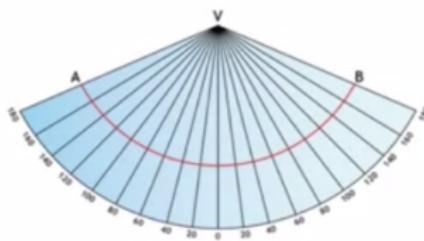
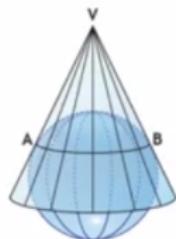
Similarly, a map projection is a method by which cartographers translates a sphere or globe into a two-dimensional representation. In other words, a map projection systematically renders a 3D ellipsoid (or spheroid) of Earth to a 2D map surface. Because you can't display 3D surfaces perfectly in two dimensions, distortions always occur. For example, map projections distort distance, direction, scale and area.



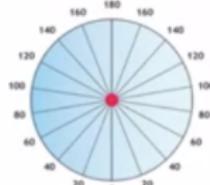
Proyección Cartográfica



(a) Cylindrical



(b) Conical



(c) Planar or azimuthal

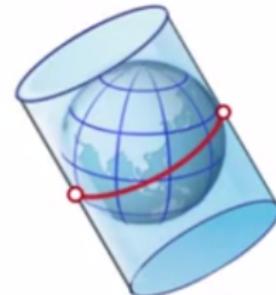
Proyección Cilíndrica



Normal
(Standard)



Secant

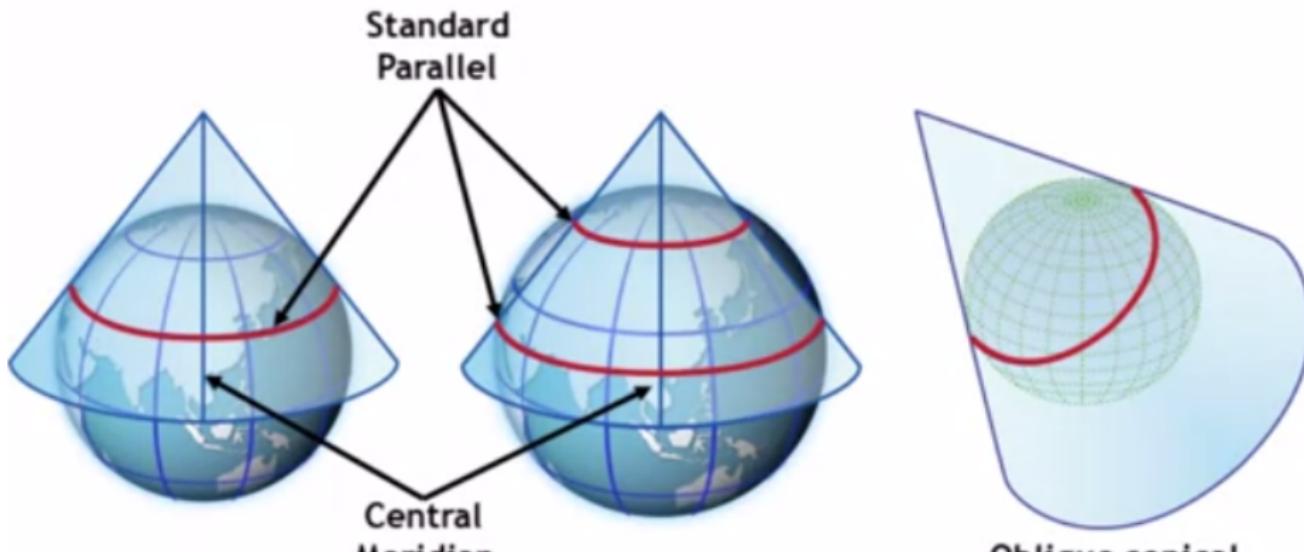


Oblique



Transverse

Proyección Cónica



Normal

Secant

Oblique

Proyección Planar



Polar



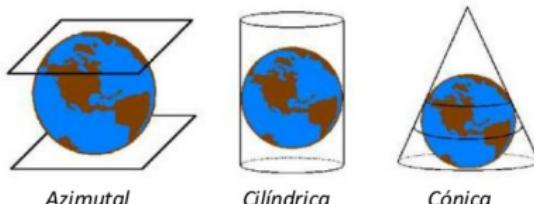
Equatorial



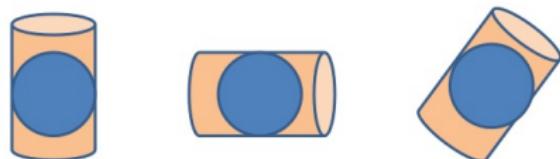
Oblique

Proyección Cartográfica

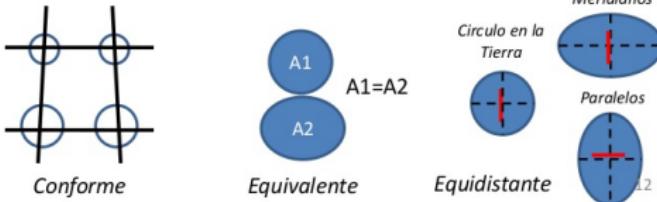
Según figura



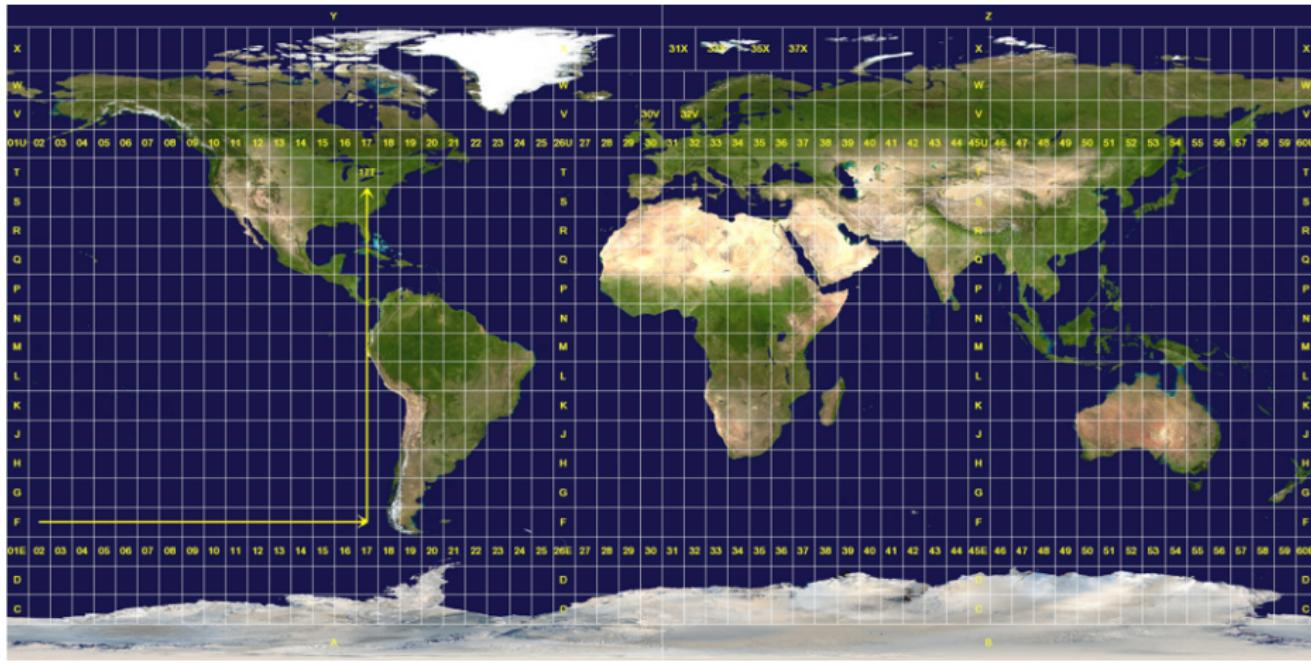
Según posición



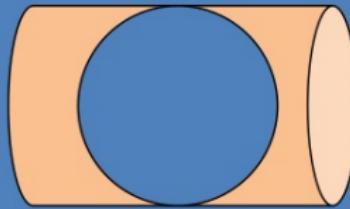
Según deformación



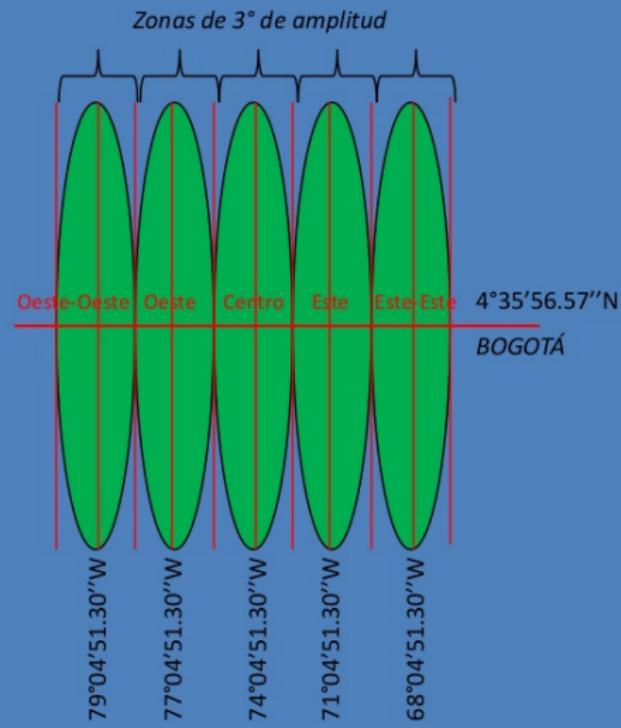
Universal Transversal Mercator (UTM)



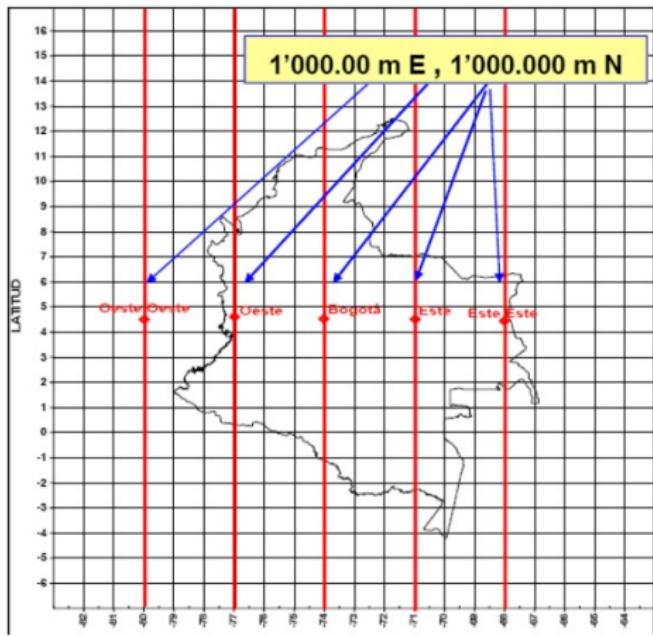
Proyección Conforme de Gauss



Proyección cilíndrica transversal



Proyección Conforme de Gauss



Es importante tener presente que el hecho de migrar del dátum Bogotá al dátum MAGNA SIRGAS, implica cambiar el valor de las coordenadas geográficas de los puntos de origen.

Spatial Reference System Identifier (SRID)

Un SRID, Identificador de Referencia Espacial, es un identificador estándar único que hace referencia a un Sistema de Coordenadas concreto. Cada código, por tanto, se asocia de forma exclusiva a un Sistema de Coordenadas.

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Previous: [EPSG:25829: ETRS89 / UTM zone 29N](#) | Next: [EPSG:25831: ETRS89 / UTM zone 31N](#)

EPSG:25830

ETRS89 / UTM zone 30N ([Google.it](#))

- **WGS84 Bounds:** -6.0000, 34.7500, 0.0000, 62.3300
- **Projected Bounds:** 225370.7346, 3849419.9580, 774629.2654, 6914547.3835
- **Scope:** Large and medium scale topographic mapping and engineering survey.
- **Last Revised:** Oct. 19, 2000
- **Area:** Europe - 6°W to 0°W and ETRS89 by country

Input Coordinates: -3, 48.54 Output Coordinates: 500000, 5376321.814613

+ 

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- Proj4js format

<https://www.spatialreference.org/>



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