

## Equal Area Projections And Structural Analysis

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### Equal Area Projections And Structural

Equal angle versus Equal area ne. Equal angle versus Equal area nets. Two projections used in structural geology. They are also used as map projections, and for maps of the sky in astronomy (or the satellites your GPS is tracking). For a map the grid represents the meridians and parallels, whereas in structural geology the grid is generally not shown.

### Equal angle versus Equal area ne

Researchers in structural geology use the Lambert azimuthal projection to plot crystallographic axes and faces, lineation and foliation in rocks, slickensides in faults, and other linear and planar features. In this context the projection is called the equal-area hemispherical projection.

### Lambert azimuthal equal-area projection - Wikipedia

An application to plot and analyse stereographic and equal area projections, and rose diagrams of geological structural data, copied and pasted from other applications, or read from text files. Wind rose options include plotting mean wind data (wind speed/wind frequency/wind energy).

### GEORient: Stereographic projection and Rose diagram ...

The stereographic or equal-area spherical projection is widely used in mineralogy and structural geology. It is defined it is defined geometrically by a ray passing from a point on the sphere (here  $Z = 1$ ) through a point P on the sphere to the projected point

### Teaching Structural Geology, Geophysics, and Tectonics In ...

Equal area projection ¶ In most cases it is preferable to use a projection that optimises equal area, because it makes it easier to assess the spatial distribution of structures. The projection that is usually chosen for this, is the Lambert Azimuthal Equal-Area Projection with equatorial aspect (See: Snyder 1987, p. 182).

### 2. Stereonet — InnStereo 0 documentation

In effect, a projection is a systematic method of drawing the Earth's meridians and parallels on a flat surface. Some projections have equal-area properties, while others provide for conformal delineations in which, for small areas, the shape is practically the same as it would be on a globe.

### Map - Map projections | Britannica

20 Stereographic and equal-area projections 40 21 The polar net 42 22 Analysing folds 1. Cylindricity and plunge of axis 44 23 Analysing folds 2. Inter-limb angle and axial surface 46 24 Analysing folds 3. Style of folding 48 25 Analysing folds 4. The orientation of folds 50 26 Folds and cleavage 52 27 Analysing folds with cleavage 54 28 Faults 1.

### Stereographic Projection Techniques for

Stereographic projection is conformal, meaning that it preserves the angles at which curves cross each other (see figures). On the other hand, stereographic projection does not preserve area; in general, the area of a region of the sphere does not equal the area of its projection onto the plane. The area element is given in (X, Y) coordinates by

### Stereographic projection - Wikipedia

Abstract and Figures The Equal Earth map projection is a new equal-area pseudocylindrical projection for world maps. It is inspired by the widely used Robinson projection, but unlike the Robinson...

### (PDF) The Equal Earth map projection

c) Equal-area stereonets are used in structural geology because they present no statistical bias when large numbers of data are plotted. On the equal-area net area is preserved so, for example, each 2° polygon on the net has the same area. d) In structural geology the stereonet is assumed to be a lower-hemisphere projection

### LABORATORY 2: Stereographic Projections I I. Stereographic ...

The projection of lineations and planes onto an equal-area stereonet is more complex. In an equal-area stereonet, the projection plane is one which is tangential to the south pole of the unit sphere (Fig. 4). In this situation, the trace of a plane is not circular, but is represented by a quartic equation (Hobbs et al., 1976).

### GIS-stereonet: an interactive stereonet plotting module ...

Unlike the Robinson projection, the Equal Earth projection is an equal-area projection. It shows the continental outlines in a visually pleasing and balanced way. The landmasses in the tropical and mid-latitude areas are less elongated, and areas along the poles are less flattened and compressed as they are on similar equal-area world maps.

### Equal Earth Map Projection Meets Cartographic Needs and ...

Researchers in structural geology use the Lambert azimuthal projection to plot crystallographic axes and faces, lineation and foliation in rocks, slickensides in faults, and other linear and planar features. In this context the projection is called the equal-area hemispherical projection.

### Lambert azimuthal equal-area projection - Infogalactic ...

The only cylindrical projections that preserve area have a north-south compression precisely the reciprocal of east-west stretching (cos  $\phi$ ): equal-area cylindrical (with many named specializations such as Gall-Peters or Gall orthographic, Behrmann, and Lambert cylindrical equal-area). This divides north-south distances by a factor equal to ...

### Cylindrical equal-area projection - Wikipedia

G.Projector — Map Projection Explorer User's Guide: List of Map Projections. Following is a list of the map projections that may be viewed and saved by G.Projector as of version 2.5.0, along with alternative names as well as some parameter-specific and other special cases.

### NASA GISS: G.Projector: List of Map Projections

a secant case of the cylindrical equal-area projection that lessens shape distortion in higher latitudes by placing lines of tangency at 45 degrees N and 45 degrees S. James Gall, the Scottish clergyman who, in 1885, published the equations for the Gall-Peters projection. Arno Peters.

### Chapter 3 Map Projections Flashcards | Quizlet

c) Equal-area stereonets are used in structural geology because they present b) The north pole of the stereonet is the upper point where all lines of longitude. Background information on the use of stereonets in structural analysis The above is an equal area stereonet projection showing great circles as arcuate lines. Page 1. mm. WIDTH. Blunt ...

### EQUAL AREA STERONET PDF - tesenca.info

At this time, the forecast keeps it below hurricane status. NHC gives another area a 70% chance for development, as well. It's located in the eastern Atlantic and is expected to move due west.

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