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SPHERICAL PROJECTIONS - SOEST
GEOrient plots orientation diagrams

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(equal area, or equal angle stereographic projections, and rose diagrams) as shown in the composite image above (or this screenshot). Data is entered either by pasting from the clipboard from other applications, or from ASCII text files, in a wide range of file formats, and using a range of orientation conventions.

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Cylindrical equal-area projection -
Wikipedia

Equal Earth projection. The Equal Earth map projection is a new equal-area pseudocylindrical projection for world maps jointly developed by Bojan Šavri? (Esri), Tom Patterson (US National Park

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Service), and Bernhard Jenny (Monash University).

Structural data extraction from stereographic or equal ...

Map - Map - Map projections: A great variety of map projections has been devised to provide for the various

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properties that may be desired in maps. 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 ...

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Teaching Structural Geology,
Geophysics, and Tectonics in ...

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 since all

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structural elements are defined to be inclined below the horizontal. This is unlike crystallographic projections where elements may plot on either ...

Supplementary Notes: Stereonets
No map projection can preserve shapes of larger regions. Equal area projections.

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Equal area projections preserve the area of displayed features. To do this, the other properties—shape, angle, and scale—are distorted. In Equal area projections, the meridians and parallels may not intersect at right angles.

Equal Earth Wall Map - Projection

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On the equal-area net area is preserved so, for example, each 2 degrees polygon on the net has the same area. In structural geology the stereonet is assumed to be a lower-hemisphere projection since all structural elements are defined to be inclined below the horizontal.

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Map - Map projections | Britannica
B Types of spherical projections 1 Equal angle projection (Wulff net) 2 Equal area projection (Schmidt net) III Spherical projection of a line A Technique 1 A line is at the intersection of two planes: 1) a vertical plane coinciding with the trend of

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the line and (2) an inclined plane coinciding with the plunge of the line.

Equal angle versus Equal area nets - United States Naval ...

The stereographic or equal-area spherical projection is widely used in mineralogy and structural geology. It is

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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

Stereographic projection - Wikipedia
Equal angle versus Equal area nets Two projections used in structural geology.

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They are also used as map projections, and for maps of the sky in astronomy (or the satellites your GPS is tracking).

Orient - Frederick Vollmer

Researchers in structural geology use the Lambert azimuthal projection to plot crystallographic axes and faces, lineation

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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.

Stereographic projection ~ Learning Geology

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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).

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Lambert azimuthal equal-area projection
- Wikipedia

Equal Area Net (Schmidt Net) Title:

Graphic1 Created Date: 2/8/2007 2:17:52
PM

LABORATORY 2: Stereographic

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Projections I I. Stereographic ...

Spherical projections include equal-area (Schmidt net), stereographic (Wulff net or stereonet), orthographic, and equidistant projections. These can be plotted on either hemisphere, or transparency can be used to display both hemispheres. Point distributions are

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analyzed by contouring, and by computing eigenvectors or vector means.

Equal Area Net (Schmidt Net) -
University of California ...

The Tobler hyperelliptical projection, first described by Tobler in 1973, is a further generalization of the cylindrical

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equal-area family. The HEALPix projection is an equal-area hybrid combination of: the Lambert cylindrical equal-area projection, for the equatorial regions of the sphere; and an interrupted Collignon projection, for the polar ...

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Equal Area Projections And Structural
The net is called a Schmidt net or simply an equal area net (Fig. 5 shows the equal area projection). Multiple data plotted in an equal area net can be contoured with respect to density, which can be useful when evaluating concentrations of structural data around certain

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geographic directions.

2. Stereonet — InnStereo 0 documentation
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

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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

About map projections—Help | ArcGIS for Desktop

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Abstract. Structural orientation data from the field are commonly represented on stereographic or equal area projections, and the raw data are usually not accessible to other workers for integration into larger datasets or comparative study.

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