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CEGIS research in map projections began with problems of commercial projection software in handling raster data projection for global modeling applications. With pixel sizes of 1 km or larger, raster cells cannot be treated as points in the transformations. This work led to the USGS implementing the mapping projections package for raster data.

[Map Projections - USGS.gov](#)

The USGS has also conceived and designed several new projections, including the Space Oblique Mercator, the first map projection designed to permit mapping of the Earth continuously from a satellite with low distortion. The mapping of extraterrestrial bodies has resulted in the use of standard projections in completely new settings.

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Map projections: A working manual - USGS

A large-scale (1:24,000) 7.5-minute USGS topographic map based on the Transverse Mercator projection is nearly correct in every respect. The USGS Map Projections poster summarizes and compares eighteen common map projections and their uses.

How are different map projections used? - USGS

Scientists at the U. S. Geological Survey have designed projections for their specific needs—such as the Space Oblique Mercator, which allows mapping from satellites with little or no distortion.

Map projections - USGS

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Map projections used by the U.S. Geological Survey

Orthographic projections of the Unified Geologic Map of the Moon showing the geology of the Moon's near side (left) and far side (right) with shaded topography from the Lunar Orbiter Laser Altimeter (LOLA). This geologic map is a synthesis of six Apollo-era regional geologic maps, updated based on data from recent satellite missions. It will serve as a reference for lunar science and future ...

Orthographic projections of the "Unified Geologic Map of ...

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The study of map projections is the characterization of the distortions. There is no limit to the number of possible map projections. Projections are a subject of several pure mathematical fields, including differential geometry, projective geometry, and manifolds. However, "map projection" refers specifically to a cartographic projection.

Map projection - Wikipedia

The best known USGS maps are the 1:24,000-scale topographic maps, also known as 7.5-minute quadrangles. From approximately 1947 to 1992, more than 55,000 7.5-minute maps were made to cover the 48 conterminous states. Similar maps at varying scales were produced

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during the same time period for Alaska, Hawaii, and US Territories.

Topographic Maps - USGS

The USGS has also conceived and designed several new projections, including the Space Oblique Mercator, the first map projection designed to permit mapping of the Earth continuously from a satellite with low distortion. The mapping of extraterrestrial bodies has resulted in the use of standard projections in completely new settings. Several other projections which have not been used by the ...

Map Projections: A Working Manual (U.S. Geological Survey ...

In standard presentation, pseudoazimuthal projections map the equator and central meridian to perpendicular, intersecting straight lines. They map parallels to complex curves bowing away from the equator, and meridians to complex curves bowing in toward the central meridian.

List of map projections - Wikipedia

The azimuthal equidistant projection is an azimuthal map projection. It has the useful properties that all points on the map are at proportionally correct distances from the center point, and that all points on the map are at the correct azimuth (direction) from the center point.

Azimuthal equidistant projection - Wikipedia

Map projections and the Internet - USGS A locked padlock) or https:// means you've safely connected to the .gov website. Share sensitive information only on official, secure websites. Map projections used by the U.S. Geological Survey The study of map projections is the characterization of the distortions. There is no limit to the number of ...

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Map Projections: A Working Manual (U.S. Geological Survey Professional Paper 1395): Snyder, John P: Amazon.sg: Books

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You can convert from any of the available projections to any of the available projections, and new projections will be added soon. You can also write your own projections. USGS Daisy-Petal creator (requires.NET 2.0) – converts equirectangular maps to USGS's daisy petal projection. Win32, Win64

Map Projection Software – Mike Wisniewski

John Parr Snyder (12 April 1926 – 28 April 1997) was an American cartographer most known for his work on map projections for the United States Geological Survey (USGS).

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