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System Jargon: geoid, datum,

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The ability to accurately
determine locations on the
surface of the Earth is

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fundamental to GIS and GPS, and this is accomplished by using various datums, map projections, and coordinate systems. When working with the Land Mapper, or any geographic data, it is essential to have a basic understanding of these concepts.

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~~Datums, projections, and
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and Map Projections All map users and map viewers have certain expectations about what is contained on a map. Such expectations are formed and learned from previous experience by working with maps. It is important to note that such

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expectations also change with
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a model of the earth that is used
in mapping. The datum consists
of a series of numbers that define

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the shape and size of the ellipsoid and its orientation in space. A datum is chosen to give the best possible fit to the true shape of the Earth. There are a large number of datums in use.

~~What is a Datum and a~~

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~~Understanding Datums,
Coordinate Systems and Map
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Every map that shows a

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geographic coordinate system such as UTM or Latitude and Longitude with any precision will also list the datum used on the map. You should always set your GPS unit's datum to match the datum of the map you are using.

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For those outside the field of cartography, map projections were often an issue, but datums, those absolute global frames of reference, were not. Developing Datums As mapping expanded globally, cartographers

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established coordinate reference frameworks that helped standardize mapping activities across wide areas.

~~Datums Who Needs 'Em
Anyway?~~

Equations are furnished for map

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projections and datums
commonly used within the Army,
and references are provided for
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A projection is a process which
uses the latitude and longitude
which has already been 'drawn'

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on the surface of the Earth using a datum, to then be 'drawn' onto a 'flat piece of paper' - called a map. See the section on Projections for more information about projection methodologies. Naming Datums and Projections

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~~Datums | Intergovernmental
Committee on Surveying and
Mapping~~

Geodesists and surveyors use datums to create starting or reference points for floodplain maps, property boundaries, construction surveys, levee

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design, or other work requiring
accurate coordinates that are
consistent with one another.

There are two main datums in the
United States.

~~What is a datum? NOAA's
National Ocean Service~~

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Different datums assign slightly different coordinates to the same location, so in large scale maps, such as those from national mapping systems, it is important to match the datum to the projection. The slight differences in coordinate assignation between

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different datums is not a concern for world maps or other vast territories, where such differences get shrunk to imperceptibility.

~~Map projection - Wikipedia~~

This usually involves the ellipsoid, the geoid, and geographical

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coordinates, latitude and longitude. At that point, surveyors and engineers rely on map projections to mitigate the situation and limit the now troublesome distortion. This is one of the reasons State Plane coordinate systems were devised.

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o When the scale of a map at any point on the map is the same in any direction, the projection is conformal. Meridians (lines of longitude) and parallels (lines of

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(latitude) intersect at right angles.

□ Area, or "Equivalent"

projections o Preserves area. o

When a map portrays areas over
the entire map so

~~Scale in GIS~~

This document provides U.S.

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Army organizations and agencies with general guidance on selecting the appropriate methods for shifting between local geodetic datums and the World Geodetic System WGS, and for converting Cartesian and map projection coordinates to and

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