

Coordinate Conversions

Both geographic coordinates (longitude and latitude) are angular measurements that can be expressed in various units. Ability to make proper unit conversions is needed for an effective data analysis.

Helper's Guide

How to Prepare

As with previous activity, mark several points and record coordinates in advance to assure data availability for an in-door activity. Each GPS receiver shall be made in a normal mode with the Satellite page displayed. Participants should be educated on how to switch between different units representing longitude and latitude.

Need to Emphasize

- Longitude and latitude are angles.
- Angles have different unit representations.
- Decimal degrees with proper sign are the optimum representation of longitude and latitude.

Related Links

- http://en.wikipedia.org/wiki/Geographic_coordinate_system
 - <http://www.maptools.com/UsingLatLon/Formats.html>
-

*Viacheslav Adamchuk and Shana Thomas
Phone: 402-472-8431
E-mail: vadamchuk2@unl.edu
Last updated: May 12, 2008*