



Surveying with UNAVCO GPS equipment

Course dates: April 6-9, 2004



Course Description:

This is a hands-on course designed for Principal Investigators, scientists and graduate students who use UNAVCO GPS equipment for surveying purposes.

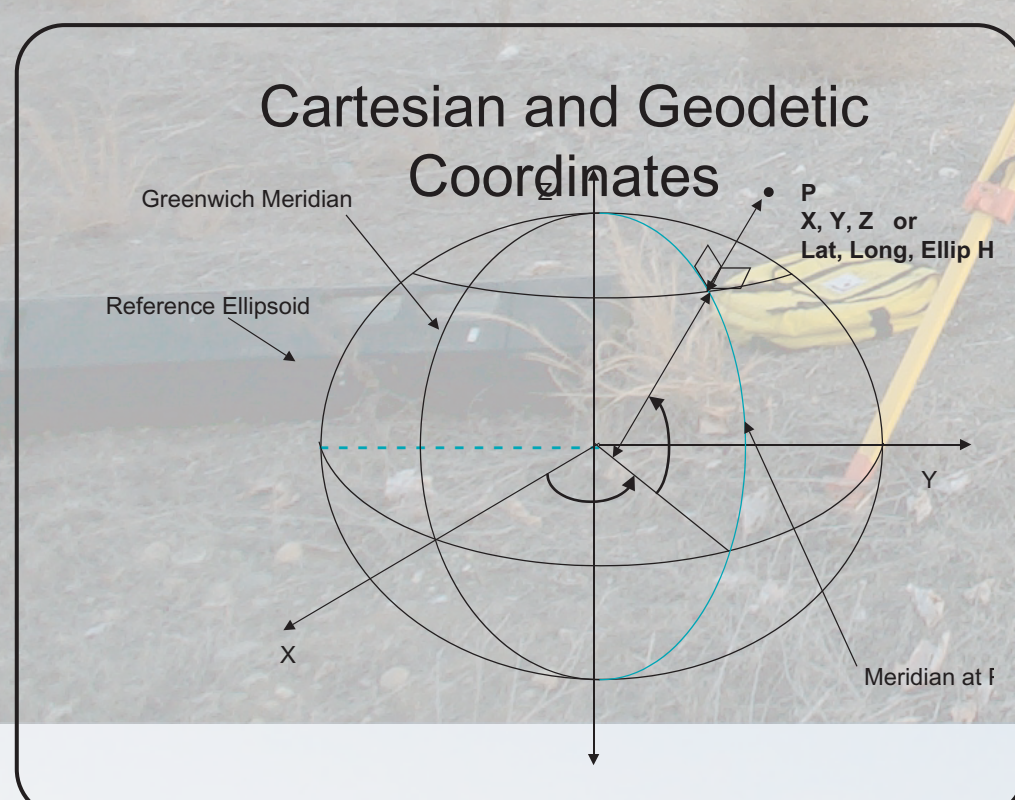
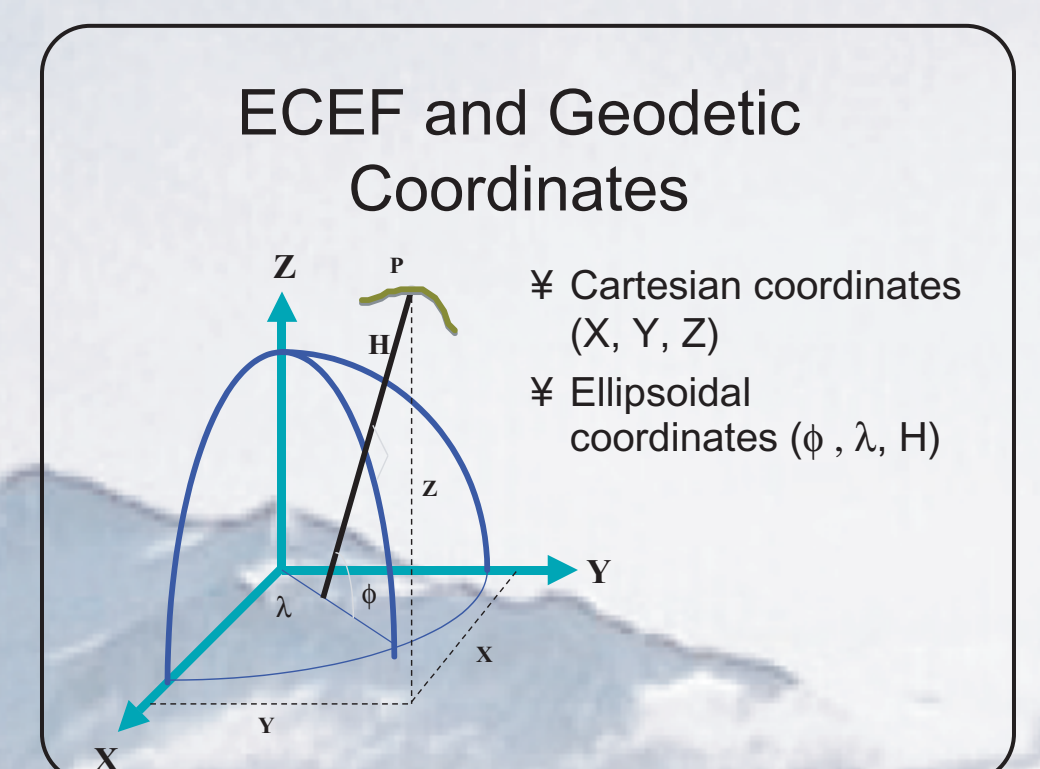
The course covers all phases of a survey project using GPS survey equipment. An overview of the GPS system and basic survey principles will be covered. Students will conduct a full GPS survey from start to finish including planning, field work, post-processing, trouble shooting and network adjustment. A practical, hands-on approach to field and office sessions will be applied every day.

There will also be a chance to learn about Real Time Kinematic GPS surveying (RTK) which can be beneficial for some survey applications. RTK surveying provides positions of 1-2 cm accuracy in real time, allowing for rapid data collection. RTK also has the ability to stake out points on the ground and requires no post-processing.

Consider this course if you plan to use UNAVCO GPS equipment during your 2004 field season.

Class size limited to 16.
The course is offered at no cost.
Participants must cover travel

Contact Jim Greenberg for details
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Course Highlights

Day one

Office session

How GPS works – satellites and coordinate systems

Data collection methods

Introduction to Trimble's Geomatics Office software (TGO)

Field session

Static data collection

Day Two

Office session

Static data processing

Least squares network adjustment

Applying a geoid model

Field session

Surveying a GPS network

Campaign survey monumentation

Day Three

Office session

Kinematic data processing

Least squares network adjustment (continued)

Field session

Kinematic data collection (using Trimble's TSC1)

Post processed kinematic Surveying (PPK)

Day Four (Optional)

Office session

Open forum for discussing project specific requirements

Field session

Open forum data collection practice session

