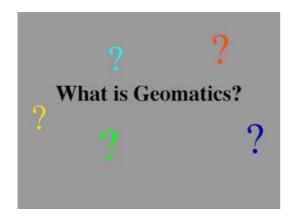




A Geo Multimedia Presentation
by

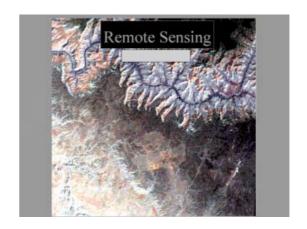
UAA Geomatics Faculty

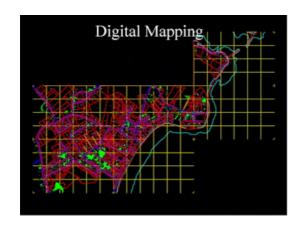




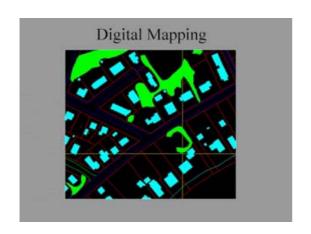


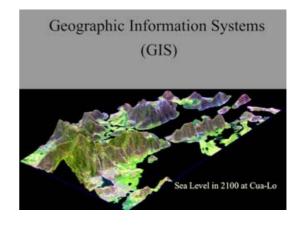


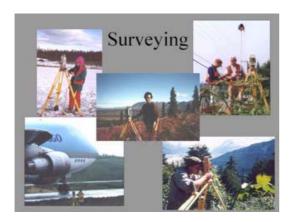












### As well as the comparatively new fields of:

- Remote Sensing
- Global Positioning Systems
- Geographic Information Systems (GIS)

### Geomatics describes an integrated approach to:

- Acquisition
- Analysis
- Distribution
- Application of spatially referenced data

#### Surveying is...

The science, art, and technology of determining the relative positions of points above, on, or beneath the earth's surface.

## traditional areas of surveying & mapping, such as:

- Topographic Surveying
- Boundary Surveying
- Geodesy
- Cadastral Surveying
- Photogrammetry
- Hydrography

#### Surveying is...

The discipline which encompasses all methods for

Measuring,

Processing and

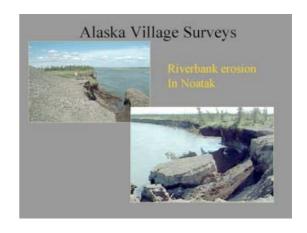
Disseminating

information about the physical earth and our environment.

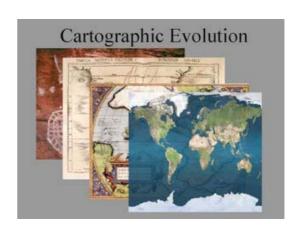


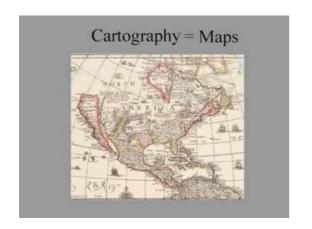


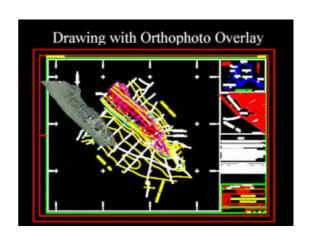








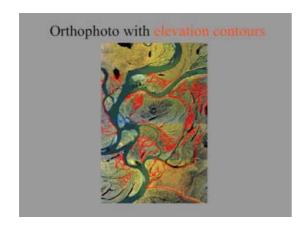


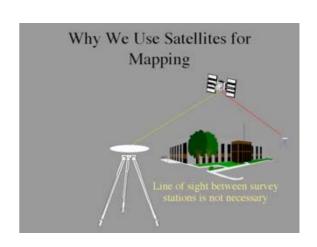


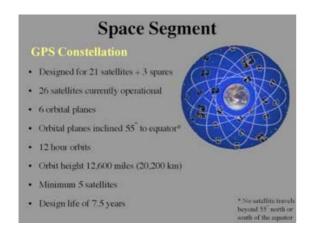


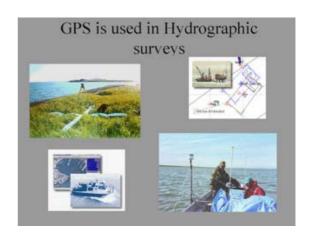
#### What is GPS?

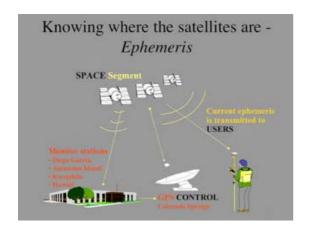
- Global Positioning Systems
- A navigation system developed and maintained by the U.S. Dept. of Defense
- Satellite based system
- 24 hour coverage
- Consists of 3 segments
  - Space
  - Control
  - User

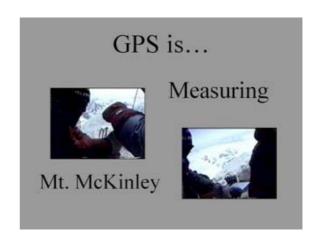


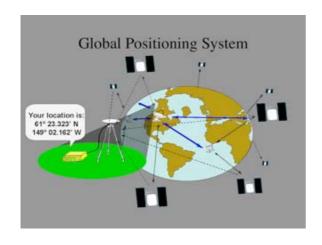




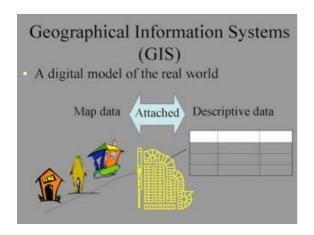






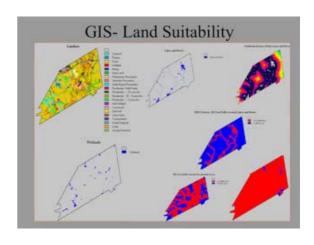




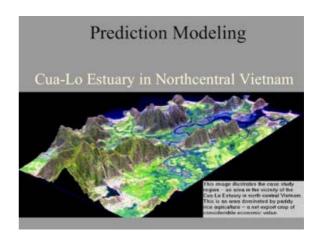


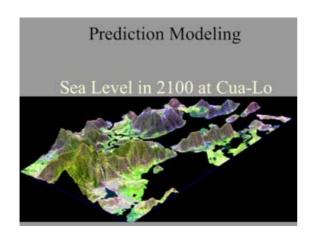
## • Land Suitability • Prediction Modeling • Time Series Analysis • Change Detection • Digital Landscape Animation

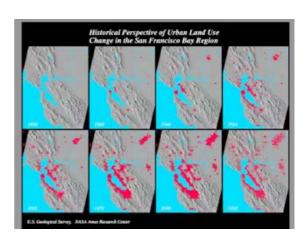


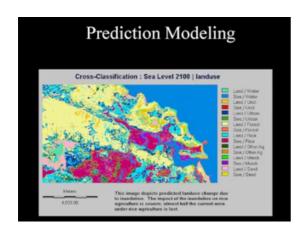


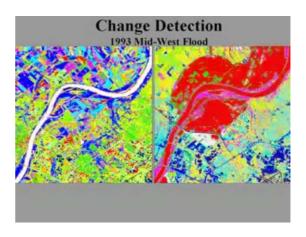


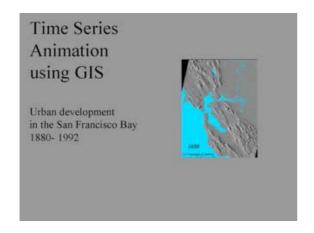


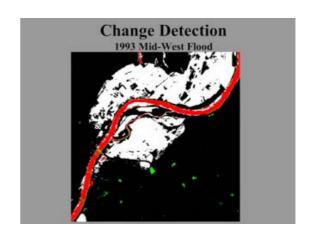


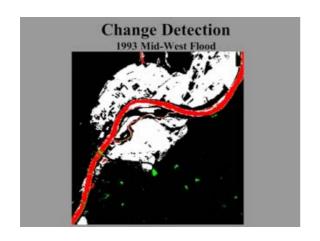






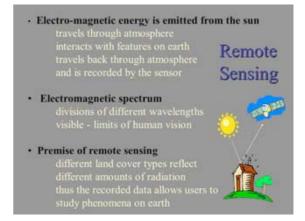




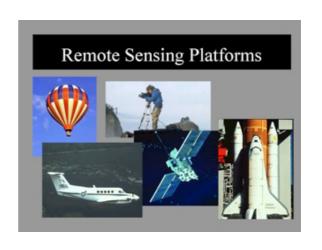




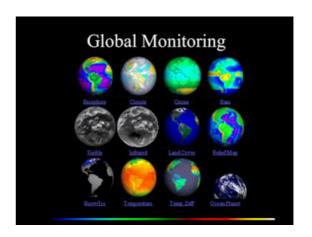


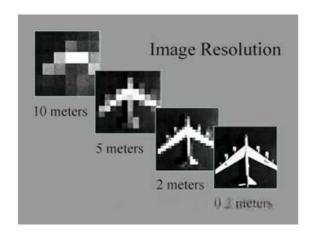


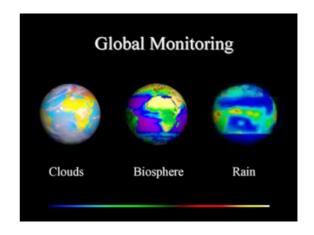




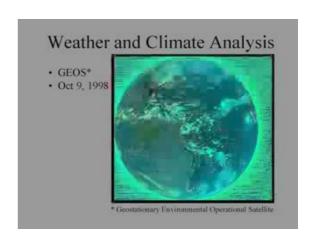








# Remote Sensing Applications • Chesal Analysis • Weather and Climate Analysis • Wildlife Refuge Management • Deforestation • Digital Terrain Modeling





Geomatics is the integration of the following technologies

GPS
Surveying
GIS
Cartography
Remote Sensing

