Digital Data Capture in Geological Field Work

A Joint Project of the BC Geological Survey and the University of Victoria

Gerri L. McEwen,
Martha A. Henderson,
Mitchall G. Mihalynuk,
Larry J. Diakow,
Stephen T. Johnston,
Topics

• Materials
• Benefits of digital mapping
• The future
Traditional Mapping Materials
Digital Data Capture
Benefits of Digital Data Capture

✓ Easy to use

✓ Customizable for situation (ie planning traverses, data layers)

✓ Database integration

✓ Instant data mapping (structural symbols, rock unit coloration, contacts, labels)

✓ Easy data compilation

✓ Map creation...Done!
Database Integration
Rock Unit Coloration
GPS Integration
Current Geology
Topographic Contours
LandSat
Why Digital Data Capture?

- Data at your fingertips
- Multiple drawings for traverse planning, roads, topographic overlays etc...
- Modifications can be made easily in the field
- Database for easy note taking and GIS integration
- Syncing of data from mapping crews
- Less time spent transferring data to build a map and data table
- Instantaneous map creation: Saving you TIME, ENERGY, and $$$
Obstacles
The Future

• Real-time data sharing and map generation
  • Data backups
  • Safety!
Out with the old…

http://looneytunesshow.wikia.com/wiki/Yosemite_Sam

In with the new…

http://en.wikipedia.org/wiki/Bugs_Bunny