The following was presented at DMT’11 (May 22-25, 2011).

The contents are provisional and will be superseded by a paper in the DMT’11 Proceedings.

See also earlier Proceedings (1997-2010) http://ngmdb.usgs.gov/info/dmt/
Digital mapping is defined as using a computer or personal digital assistant (PDA) to show and record information that has traditionally been recorded on paper, whether on note cards, in a notebook, or on a map.

Communication in the Geologic Community is Key to Advancing Digital Geologic Field Mapping

Why a listserve?
- Will promote conversation and networking
- Easy and fast to use
- Information will be up-to-date
- Open membership

Final Results from 2010 Digital Field Mapping Technology Survey
Jennifer E. Athey
Alaska Division of Geological & Geophysical Surveys
July 7, 2011

2010 survey results - interest in digital technology

DGGS surveyed the geologic community regarding their interest in digital geologic mapping and the current technology being used. The e-mail survey went out to over 1,250 organizations (university geology departments, state and national geologic surveys, and the private sector) with a ~13% response rate.

Digital Mapping Wishlist
Most commented (20 responses)
1. Increase software ease-of-use, documentation, and support
2. Decrease cost of system
3. Make hardware lighter
4. Increase screen size (from PDA users)
5. Hardware becomes obsolete too fast
6. Hardware needs to be ruggedized
7. Battery life needs to be longer
8. Use more Mac-compatible software
9. Faster processors and video cards
10. Better screen visibility
11. Embedded photo capability, better camera
12. Voice recognition
13. Embedded sketch capability
14. Least commented (2 responses)

2010 survey results - technology being used

GIS Software Responses
- ESRI ArcPAD: 35
- ESRI ArcGIS: 18
- Other programs: 25

Hardware Responses
- PDAs: 34 ruggedized, 17 non-ruggedized
- Laptops: 8 ruggedized, 11 non-ruggedized
- Tablets: 8 ruggedized, 4 non-ruggedized
- Phones: 7 non-ruggedized

For PDAs
- Trimble TerraSync
- OzExplorer

For Tablets, TabletPCs, Laptops
- GeoPaparazzi (Android)
- GeoExplorer (for Macs)

For Tablets, TabletPCs, Laptops
- Navionics (for Macs)
- My Maps (iPhone)

Embedded photo capability, better camera
- Voice recognition
- Faster processors and video cards
- Battery life needs to be longer
- Use more Mac-compatible software
- Increased screen size

82% of geologic organizations/geologists want to or already use computers to map in the field

Redirected to Wikipedia as a resource
- Easy to access and edit by anyone
- Language is free of jargon or defined
- Information is well documented


Wikipedia

http://list.state.ak.us/soalists/geomapping_technology/jl.htm

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References

Athey, Jennifer, Freeman, Larry, and Woods, Ken, 2008, The transition from traditional to digital mapping: Maintaining data requirements for field entry of geologic data. Brand names are examples only and do not imply endorsement by the State of Alaska.

Published by Alaska Division of Geological & Geophysical Surveys, Department of Natural Resources, 2011. Digital field mapping technology to streamline data collection and processing. (Note: Software and hardware listed on this poster are not necessarily all-inclusive of those potentially capable of meeting requirements for field entry of geologic data. Brand names are examples only and do not imply endorsement by the State of Alaska.)

DGGS collects, analyzes, and publishes geological and geophysical information in order to inventory and manage Alaska’s natural resources and mitigate geologic-hazard risks. In 2005, DGGS began investigating the potential of digital field mapping technology to streamline data collection and processing. (Note: Software and hardware listed on this poster are not necessarily all-inclusive of those potentially capable of meeting requirements for field entry of geologic data. Brand names are examples only and do not imply endorsement by the State of Alaska.)