

## **DIGITAL MAPPING TECHNIQUES 2014**

DMT 2014

The following was presented at DMT'14 (June 1-4, 2014 - Delaware Geological Survey, Newark, DE)

University of Delaware

## The contents of this document are provisional

University of Delaware: Perkins Student Center

> See Presentations and Proceedings from the DMT Meetings (1997-2014) http://ngmdb.usgs.gov/info/dmt/

## Geologic Data Processing and Delivery at the Alaska Geological Survey

By Jennifer E. Athey and DGGS Staff

Alaska Division of Geological & Geophysical Surveys (DGGS) 3354 College Road Fairbanks AK 99709-3707 Telephone: (907) 451-5028 Fax: (907) 451-5050 email: jennifer.athey@alaska.gov

## ABSTRACT

Recently the Geologic Communications Section at the Alaska Division of Geological & Geophysical Surveys (DGGS) has made significant progress addressing user expectations and streamlining DGGS's geologic data publication process since the publication inefficiencies I described in 2009, 5 years ago (http://pubs.usgs.gov/of/2010/1335/pdf/usgs\_of2010-1335\_Athey.pdf). At the time, about one-third of maps intended for publication were actually published from 2004 to 2009. Our current success is demonstrated by our publication output, which has more than doubled since 2004, while maintaining the same publication quality. We now have more geologists on staff than in 2004 and produce more data releases and formal publications in general. Below is an update of DGGS's publication process (presented at the DMT'14 meeting as a poster, see http://ngmdb.usgs.gov/Info/dmt/docs/DMT14\_Athey.pdf).

Major changes in DGGS publication process:

GIS	.Hired one full-time GIS analyst/cartographer to complete publications and one full-time GIS Administrator to manage DGGS spatial data. There is
	room for improvement here as completion of GIS work is still a bottleneck
	in the process. Use of USGS's NCGMP09 geologic database standard is
	mandatory. Some staff are collecting field data digitally.
Editing/Approval	.Tasks are documented. Pre-publication meetings with authors increases
0 11	communication. One staff member tracks all publications, which are
	prioritized. Publication status is reviewed biweekly in management
	meetings and is available for staff to review at all times.
Metadata	One staff member creates all metadata in consultation with authors.
Archiving	.In-house archiving application manages physical and digital project files
	(AGDI; doi: <u>10.14509/24504</u> ). DGGS plans to formalize division-wide
	archiving expectations and methodology.
Infrastructure	Automations and applications facilitate routine tasks, including website
	functionality. Robust platform combines Oracle, Postgres, ArcGIS for
	Server, multi-user geodatabase environment (SDE), and open-source
	software to serve in-house and public data needs such as web mapping
	applications ( <u>http://maps.dggs.alaska.gov/</u> ).

DGGS interfaces with the public in a number of ways, both proactively reaching out to user groups and providing data for the users who know to come to us for Alaska geologic information. We constantly evaluate what data formats our users need and currently provide digital data and hard-copy publications. Self-evaluating our effectiveness as a data provider, future-proofing our infrastructure, monitoring trends in information sharing, and paying attention to our customers' needs will ensure DGGS maintains its position as the premier resource for Alaska geologic knowledge.