THAN JUST PHOTOGRAMMETRY

ASPRS IS MORE

MSGIC FALL MEETING OCTOBER 18, 2017



Agenda

- Organization
 - Regions
- Publications
- Professional Certifications
- Education
- Standards
- Awards & Scholarships
- Questions



Organization

- American Society for Photogrammetry and Remote Sensing
- Founded in 1934
- Serving over 7,000 professional members around the world

NG & GEOSP

asprs

- Technical Divisions
 - GIS Geographic Information Systems Division
 - Lidar Division
 - Photogrammetric Applications Division
 - Primary Data Acquisition Division
 - Professional Practice Division
 - Remote Sensing Applications Division
 - Unmanned Autonomous Systems Division

Regions



Publications

- Photogrammetric Engineering & Remote Sensing (PE&RS): peer-reviewed journal
- Technical manuals:
 - DEM
 - Photogrammetry
 - GIS
 - Remote Sensing
 - Glossary
- Conference proceedings





IMAGING & GEOSPATIAL INFORMATION SOCIETY



Licensure Maps and Regulations

This map represents the ASPRS best effort at determining where the specific referenced product or service (Georeferenced Imagery, Authoritative Imagery, or **Topographic Mapping) is** addressed by individual state regulations relating to Surveying & Mapping.



& GEOSPATIA

Historical Imagery Catalog

The ASPRS Aerial Data Catalog is a tool for locating aerial photography over the U.S. and international coverage areas, including details and contact information about individual collections. The Catalog currently uses a keyword searching system. As planned, search capabilities will be enhanced in the

EORMATION SOCIETY

future with a geographic (map-based) search option.



Certifications

ASPRS offers 5 certification subject areas

- Photogrammetry
- Remote Sensing
- GIS
- Lidar
- UAS

Accreditation

- Council of Engineering and Scientific Specialty Boards (CESB)
 www.cesb.org
- Recertification is required every 4 years
 - No test required for recertification

Certification Levels

ASPRS offers 3 levels of certification:

- Professional / Scientist
 - 6 years of relevant experience
- Technologist
 - 3 years of relevant experience
- Intern
 - Relevant university level course work
 - Advisor recommendation

About the Exams

Certified Mapping Technologist UAS

- 50 Multiple Choice Questions
- 25% UAS Mapping Specific
- 75% Fundamental Geospatial Concepts
- Time Limit 2 hours

Certified Mapping Scientist UAS

- 100 Multiple Choice Questions
- 25% UAS Mapping Specific
- 75% Fundamental Geospatial Concepts
- Time Limit 4 hours

Allowed one reference book of choice No electronic devices

Exam Questions

First Comprehensive digital street map of the entire US is

A. BML's Public Land Survey Plats
B. USGS's 1:24,000 Quad Maps
C. DoD's Digital Chart of the World
D. Bureau of Census' TIGER System

Exam Questions

Given the following Raster dataset, The Manhattan distance from A to B is

A. 3 UnitsB. 4.2 UnitsC. 6 UnitsD. 9 Units



Exam Questions

An error that follows a definite pattern and whose magnitude and size can be determined is referenced to as a(n)

A. accidental errorB. blunderC. random errorD. systematic error

Education

Webinars

- Instructor-led Online Class (4 to 8 hrs)
- Fee
- Open to the public

GeoBytes

- Online one-hour seminars
- Free
- Open to the public
 - Started 2013
 - around 7000 registrations

Outreach

Geospatial Revolution

http://geospatialrevolution.psu.edu/

Standards and Guidelines

- LASer (LAS) Common Data Exchange Format
- ASPRS Positional Accuracy Standards for Digital Geospatial Data
- ASPRS Guidelines for the Procurement of Geospatial Mapping Products and Services
- Draft Guidelines for In-Situ Metric Camera Calibration





Geospatial Intelligence Standards WG Working Group

Awards & Scholarships

- Awards are in the form of cash, travel grants, and/or data.
- Twelve scholarship awards, totaling more than \$50,000 in value.
 - Award and scholarship presentations take place during the Annual (Spring) Conference



David Alvarez, CMS, GISP GeoBytes Coordinator geobytes@asprs.org

