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FEMA Missouri Lidar

Acquisition Status

01/01/2018

Mission Information

Atlantic Contacts:

Airport Airspace Contacts:

Signature Aviation
A2GASRI 130.375
UNICOM 122.95
C Cubed Aviation 256-772-2004
KHSV

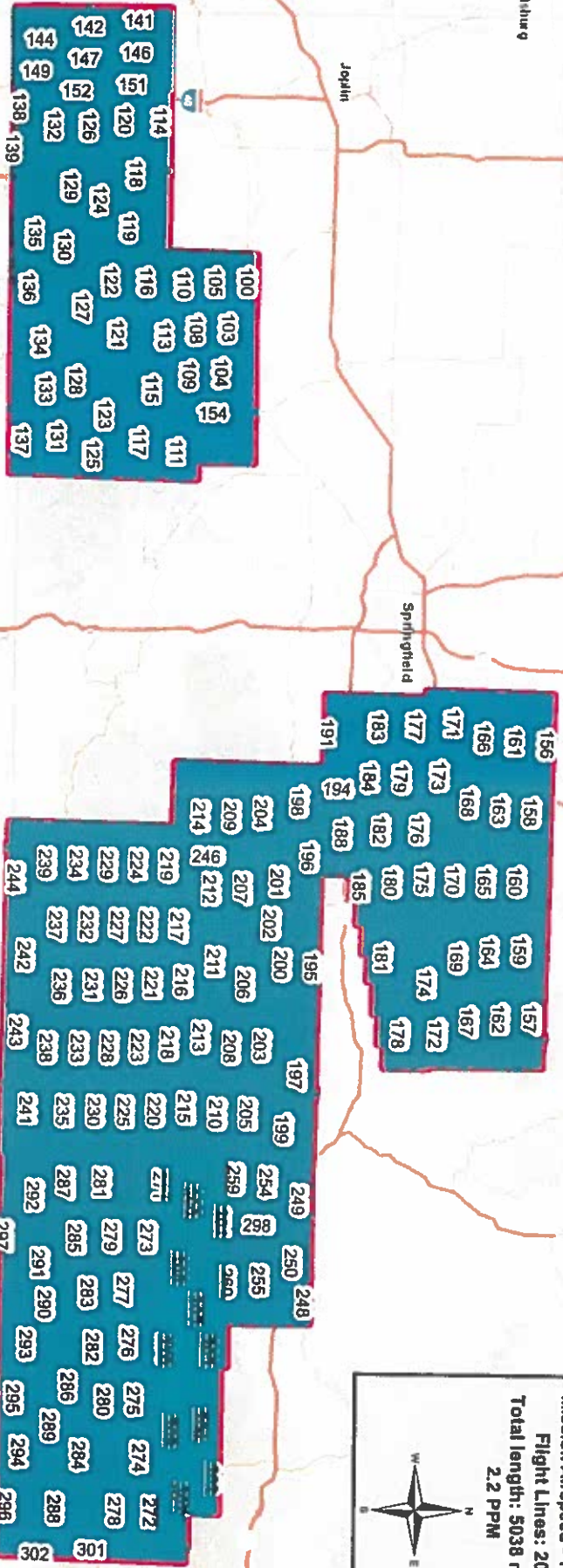
256-772-9341

Alcraft:
732E - Cessna - 210
Sensor: ALS 70

Flight Altitude - 9843ft
Mission Airspeed - 130 knts

Flight Lines: 203

Total length: 5038 miles
2.2 PPM



Stats from 17 Missions	Total Lines Acquired	Total Exposures Acquired	Approximate linear miles	Total online Hours	Estimated Lfbs to complete
Averages	12	0	474.26	3.24	-0.05
Totals	205	0	8062.45	55.02	13.52
%Complete	101.0%	0.0%	100.2%	101.9%	100%

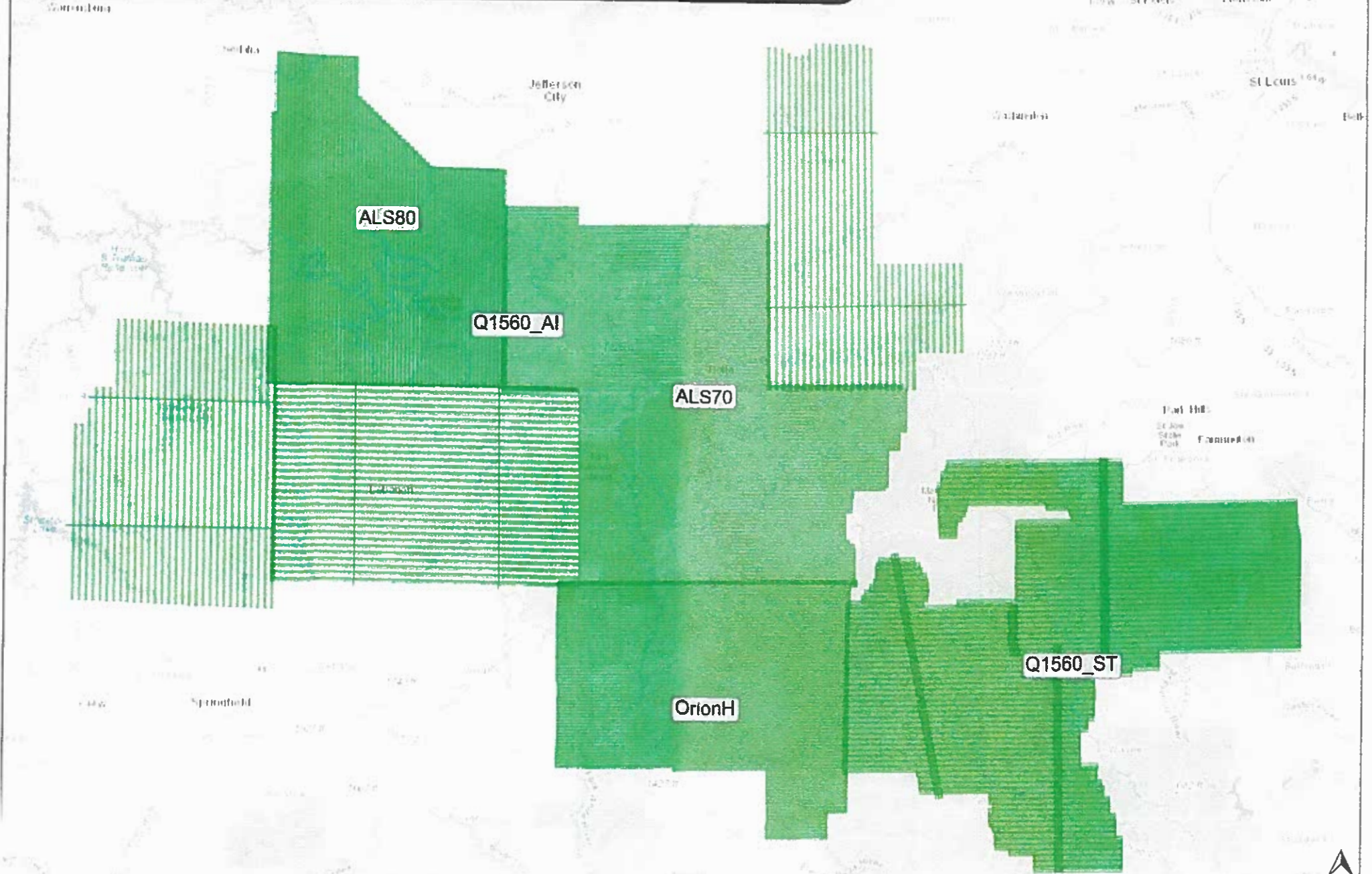


Lidar Flight Lines

- 0 - Not Acquired
- 1 - Acquired
- 2 - Coverage Check
- 3 - Reflight
- 4 - Calibrated

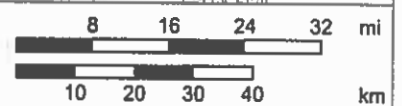
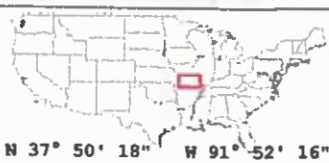
Sources: Esri, HERE, DeLorme, USGS, Inetmap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

30396 MO FEMA R7 (1/8/2018) - 100.0% Acquired



Total	11,278 sq miles	■ ALS70	103 / 103
Flown	11,278 sq miles	■ ALS80	59 / 59
Remaining	0 sq miles	■ OrionH	79 / 79
Flown FLs	438 / 438	■ Q1560_AI	95 / 95
Flown Miles	17,012 / 17,012	■ Q1560_ST	102 / 102

Planned
Flown



N 37° 50' 18" W 91° 52' 16" Scale 1:2,835 1 in = 19.36 mi

3D Nation Elevation Requirements and Benefits Study



3D Nation Goal: Continually improve the national elevation mapping foundation by coordinating the topographic, coastal, and bathymetric mapping activities across the Nation.



What is 3D Nation?

3D Nation serves as a unifying structure for all national elevation efforts, and provides a consistent set of standards and objectives for an authoritative geospatial foundation to support national needs. The 3D Nation concept

provides the basis for mapping our natural resources, transportation systems, businesses, public and private lands, and ecosystems in a changing world by uniting terrestrial and coastal/ocean mapping efforts from the highest mountains to the deepest oceans to ensure public access to an accurate national elevation dataset.

What is 3D Elevation Data?

3D elevation data refers to:

Topographic data - precise 3D measurements of the terrestrial terrain

Bathymetric data - 3D measurements of underwater depths and topography

Why do we need to understand States' needs for 3D elevation data?

Critical decisions are made in every state across our Nation every day that depend on elevation data, ranging from immediate safety of life, property, and environment to long-term planning for infrastructure projects, and more. We use elevation data in agriculture to increase crop yields and reduce fertilizer runoff. We use it to manage catastrophes such as hurricanes and earthquakes, for storm surge warnings and flood events. We depend on it to manage our natural resources and plan ahead for sustainable use, protection, and enjoyment of our lands and seas. State participation in the 2012 National Enhanced Elevation Assessment (NEEA) was key to informing how the 3D Elevation Program (3DEP) could best respond to the rapidly growing need for high-quality elevation data to represent the land surface. Further, the NEEA study was helpful for state assessment and strategic planning related to elevation data.

Today we have the same questions for elevation data in our inland rivers, oceans, coasts, and Great Lakes. What are the needs for, and value of, accurate three-dimensional topographic and bathymetric mapping data to the nation? How can Federal mapping agencies better design their programs to meet existing and future needs for both datasets? How do we become a true 3D Nation that is economically competitive and environmentally sustainable?

The Interagency Working Group on Ocean and Coastal Mapping (IWG-OCM) and the 3D Elevation Program (3DEP) are working together to answer these questions with a new requirements and benefits study. Learning more about the business uses and associated benefits to be realized from improved 3D

elevation data will help us better direct federal mapping dollars to best meet many federal, state, and other national business needs.

What is the 3D Nation Elevation Requirements and Benefits Study?

The 3D Nation Study will document and refine the requirements and benefits of the wide range of mission critical needs that depend on 3D elevation data to inform policy, regulation, scientific research, and management decisions. Such mission critical needs include flood risk management, natural resources conservation, infrastructure and transportation corridor improvements, identifying otherwise "hidden" geologic hazards, understanding water availability, safe maritime shipping and congestion avoidance, and updating nautical charts, among others.

The 3D Nation Study builds on the original NEEA to provide the ability to assess new acquisition technologies against user requirements and identify the tradeoffs between different approaches while simultaneously helping plan for the next round of 3DEP after nationwide coverage has been completed. Importantly the study adds our inland rivers, oceans, coasts, and Great Lakes to the equation.

How can my State be part of the 3D Nation Study?

Help us to understand how much our Nation benefits from topographic and bathymetric elevation data, and how to design the next phase of federal elevation mapping programs to help meet State needs.

Designate a State Champion (if you are a coastal or Great Lakes state, you may want to select a Co-Champion to help address nearshore and offshore bathymetry requirements)

Get to know your USGS and/or NOAA liaison; they will be with you every step of the way, providing materials, outreaching to critical technical staff, drafting email and scheduling meetings, as needed

Outreach the study to State Agency leads, and encourage them to nominate study participants across Agency programs

Review participant list for representative inclusion of key and critical State business needs

Add in local, county, regional, Tribal, and academic study participants where they can help tell a more robust story about State needs

Review responses, and ensure critical State mandates and issues are fully represented

Attend the workshop or interviews and help lead discussion and bring consensus to the requirements for the State

Write/Edit an introductory narrative that will become part of the final publication (template will be provided)

6 weeks

4 weeks

Before Final Publication

Give your State summary the final approval before results are published