

WSF 2021 FINAL Report # 4164

PROJECT: Nebraska GeoCloud (NGC) and Airborne Electromagnetic (AEM) Data Integration – WSF Application #4164 (awarded December 2016)

DATE: AUGUST 16, 2021
FINAL REPORT

See Application 4164 Section D #2 For Project Scope Summary, Timeline and Acronyms

PROJECT PROGRESS APRIL 2021 TO JULY 1, 2021:

Continued the advancement of the back and front ends of the Nebraska GeoCloud (NGC) tailored to the unique characteristics of Nebraska data and the needs of stakeholders using I-GIS' development and software services. Uploaded additional Papio-Missouri River NRD and Nemaha NRD AEM datasets for 2020 AEM surveys and supporting geologic data (shapefiles, 2D grids etc.) to the NGC Platform. Continued promotion of the Geoscene3D Nebraska Portal Viewer license which pulls data from the NGC in a standardized environment for 3D visualization and makes it available to the project stakeholders. Continued advisory group efforts and two-year extension agreement for the NGC through June 30, 2022. As of July 1, 2021, there are over 40 users registered on the NGC. <https://data.geocloud.live/>:

- total of 47 Projects containing reports and raw data files
- 37 AEM databases uploaded
- 180 2D grids
- all of CSD test holes (6,014 total)
- 24 3D grids, points, logs, and shapefiles

ANTICIPATED ACTIVITIES FROM NOW UNTIL NEXT ANNUAL REPORT:

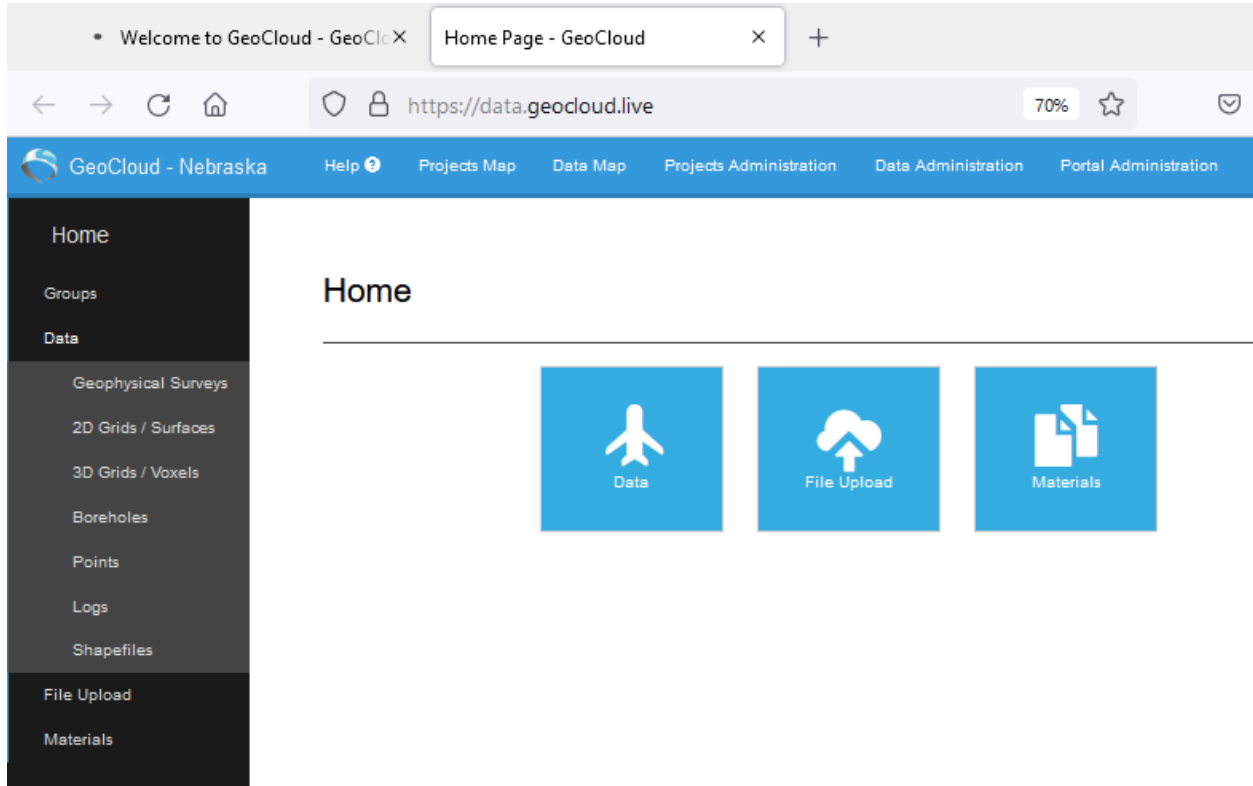
Continued presentations, collaborations and use of the data through the NGC are anticipated. This serves as the final status report for WSF Grant #4164.

ANTICIPATED CASH FLOW FOR REMAINDER OF THE PROJECT:

None. Claims 1-9 so far have totaled **\$247,385.82** and were received from WSF which is just \$51.78 short of the total **\$247,437.60** project award (60% of the \$412,396 project expenses not including USGS coop funds). There were \$86.30 in wire fees paid by ENWRA before calculating the 60% reimbursements on several UNL invoices. Although the NGC project operation continues under a separate extended interlocal agreement between 10 NRDs, no additional claims are anticipated under #4164.

LIKELIHOOD THAT BENEFITS PROJECTED IN APPLICATION 4164 WILL BE REALIZED: Based on the **Guidelines** and **Standards** postings and NGC platform accessibility (statewide AEM datasets and supporting geologic boreholes, shapefiles, reports, and grid files) now available at: <http://snr.unl.edu/csd/geology/nebraskageocloud.aspx>, the project achieved the benefits as described in the application. Over 25,000 line miles (40,000 line kilometers) of statewide subsurface AEM data has been inventoried and secured in a digital archive for long-term data security. The live NGC Platform and 3D visualization Portal Licenses will continue to facilitate collaborative characterization of Nebraska's groundwater resources and provide long-lasting statewide benefits.

<https://data.geocloud.live/>



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