DGGS releases new magnetic and radiometric geophysical surveys

Data available for airborne surveys conducted for White Mountains and Eagle

(Fairbanks, AK) – The Alaska Division of Geological & Geophysical Surveys announces the publication of two new airborne magnetic and radiometric geophysical surveys – one for the White Mountains north of Fairbanks and one near the community of Eagle east of Fairbanks (see attached maps).

The White Mountains survey covers 5,200 sq mi (13,400 sq km) and includes a broad area of high mineral potential, including the Livengood gold deposit and the Shorty Creek copper-gold-silver-tungsten exploration project. Parts of the area have high potential for critical minerals including rare earth elements and tin. The area adjoins the previously surveyed Fairbanks and Circle mining districts.

The survey near Eagle covers 3,757 sq mi (9,731 sq km) and includes portions of the Fortymile and Eagle mining districts. The area includes the lode gold prospects of the Seventymile area and the lead-zinc-silver prospects of the Mount Veta area, including the LWM deposit.

“The data from both surveys will be used to better the understanding of the geology and mineral potential, promoting resource exploration,” said geophysicist Abraham Emond with DGGS’s Mineral Resources Section.

“The release of this geophysical data is an exciting step forward in driving critical mineral exploration and development in Alaska,” added DNR Commissioner Corri Feige. “As our nation’s storehouse of critical minerals, Alaska’s contribution to our national security and geopolitical strategy can’t be overstated. Alaska is open for business and eager to see the exploration activity that this data will help attract.”

These data are a part of the planned continuous regional magnetic data coverage of the Yukon Tanana Uplands. The White Mountains survey connects the existing Rampart, Circle, and Fairbanks-area surveys while the Eagle survey extends the coverage of magnetic data northward towards the Yukon River building on existing geophysical surveys in the region.
These data sets are available for download from the DGGS website in a wide variety of industry standard formats. The White Mountains survey data can be found at [https://doi.org/10.14509/30756](https://doi.org/10.14509/30756) while the Eagle survey data can be found at [https://doi.org/10.14509/30755](https://doi.org/10.14509/30755).

The public can view the KMZ archive with Google Earth or other KML viewer, look at the PDF format maps, and for the more adventurous, load the geographically registered PDFs on a mobile device and go exploring with your current location showing on the data map.

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Photo captions:
Whitemtns_survey_area_map.png: White Mountains survey location map with major roads, towns, and 1:250,000-scale USGS quadrangle boundaries. Prior DGGS surveys shown in gray.

Eagle_survey_area_map.png: Eagle survey location map with major roads, towns, and 1:250,000-scale USGS quadrangle boundaries. Prior DGGS surveys shown in gray.