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PRESS RELEASE

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DGGS publishes new Interior Alaska Geophysical Survey Data

(Fairbanks, AK) – The Alaska Division of Geological & Geophysical Surveys (DGGS) announced the publication of the Tanana and Big Delta fixed-wing airborne magnetic and radiometric geophysical survey surrounding Fairbanks, Alaska (see attached figures). The 12,700 sq mi (33,000 sq km) survey covers a broad area of high mineral potential, including parts of the Bonnifield, Circle, Delta River, Fairbanks, Fairbanks-Richardson subdistrict, Fortymile, Goodpaster, Hot Springs, Kantishna, Rampart, and Tolovana mining districts.

“The data from the Tanana and Big Delta airborne magnetic and radiometric geophysical survey will be used to better the understanding of the geology and mineral potential, promoting resource exploration,” said Abraham Emond, a geophysicist with DGGS’ Mineral Resources Section.

These data are part of the regional magnetic data coverage of the Yukon Tanana Uplands that the Division has been gathering, connecting several existing surveys and improving overall understanding of the area. They are available for download from the DGGS website in a wide variety of industry standard formats at: doi.org/10.14509/30899. The public is encouraged to view the KMZ archive with Google Earth or other KML viewer, take a look at the PDF format maps, or load the geographically registered PDFs on a mobile device.

Viewing and finding geophysical data is now easier than ever with the release of DGGS’ new Geophysics Web App (maps.dggs.alaska.gov/gp/). Users can search by completed and planned surveys, and filter by survey and product type.

Geophysical data is used to provide information about the physical properties of the Earth’s surface and subsurface and can help locate hydrocarbons, minerals, and other natural resources. It is also used for geologic mapping, hydrology, infrastructure planning, and more. The DGGS geophysics program is responsible for the collection, distribution, and promotion of geophysical data to support Alaska's resource exploration, transportation, and environmental stakeholders.

This work was funded by the U.S. Geological Survey's Earth Mapping Resources Initiative (MRI) program cooperative agreements G19AC00263, G21AC10326, and G22AC00475.

Photo captions:
tanana_big_delta_AK_map.png: Tanana and Big Delta airborne geophysical survey location shown in interior Alaska with relevant 1:250,000-scale quadrangles.
tanana_big_delta_regional_map.png: Tanana and Big Delta survey location map with major roads, towns. Prior DGGS surveys shown in gray.

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