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Fixed-Wing ZTEM

z-axis tipper electromagnetic system

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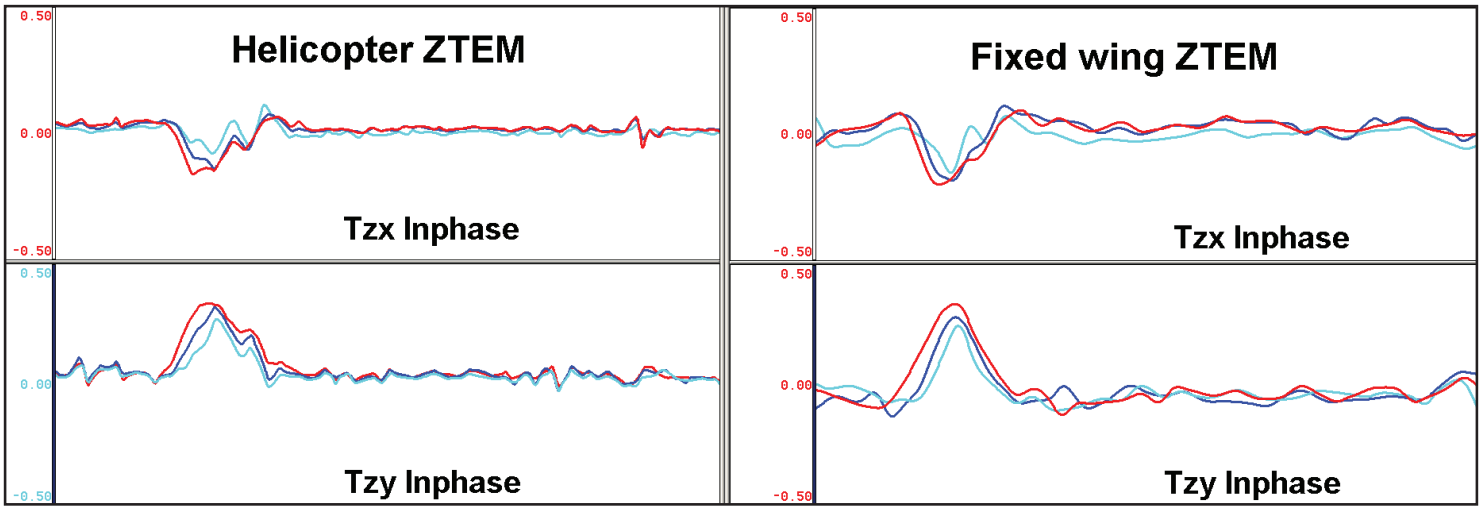
In February 2011, Geotech Ltd. successfully field-tested the newest implementation of the *ZTEM* (z-axis tipper electromagnetic) tipper AFMAG system: the fixed-wing *ZTEM* (*FW-ZTEM*), in porphyry-rich central Arizona. Adapted after its successful helicopter *ZTEM* survey platform, the new system operates from a Cessna Grand Caravan and incorporates a redesigned z-axis sensor (3 x 4 m rectangle) that is retractable, as shown below. Both platforms use identical acquisition systems and measure similar bandwidth frequencies (45 – 360 Hz).

Results of comparative helicopter *ZTEM* and *FW-ZTEM* results flown along the same survey line and at similar bird altitude (60 m) are shown below. The *FW-ZTEM* survey speed was 100 knots as compared to 55 knots for helicopter *ZTEM*. As shown, the data indicates excellent repeatability between the helicopter and fixed-wing systems, in spite of different survey speeds and weak responses from bedrock geology. These promising results point to future lower cost regional mapping applications of the *FW-ZTEM* system for mineral exploration, as well as oil and gas.

Results of the first fixed-wing ZTEM test



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