

GREENPEG

Efficient

Safe low level flying

Sustainable



High resolution data for pegmatite exploration

Magnetic nose boom for Europe



terratec Geophysical Services

Heliborne nose boom magnetic and radiometric surveys

terratec through the GREENPEG project has brought the first fully European Authority for Aviation Safety (EASA) certified heliborne magnetic nose boom system to the European market. With the nose boom system high-resolution surveys in mountainous terrain with close line spacing and low altitude can be flown. It is possible to map lithological contacts and structure controlling features for the presence of pegmatite ore bodies.

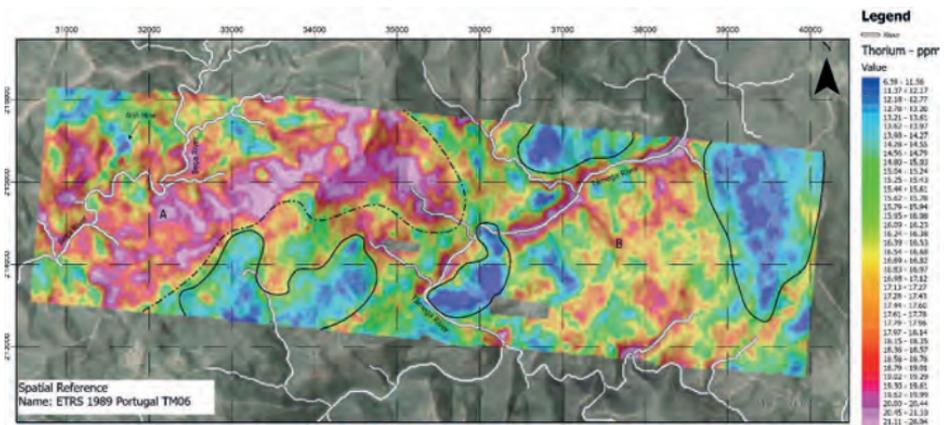


Figure 1: High resolution thorium map of the pegmatite field at the Portugal test site. A correlation between thorium values and pegmatite bodies could be established.



Image 1: Magnetic and radiometric nose boom system on survey in the Austrian alps '23.

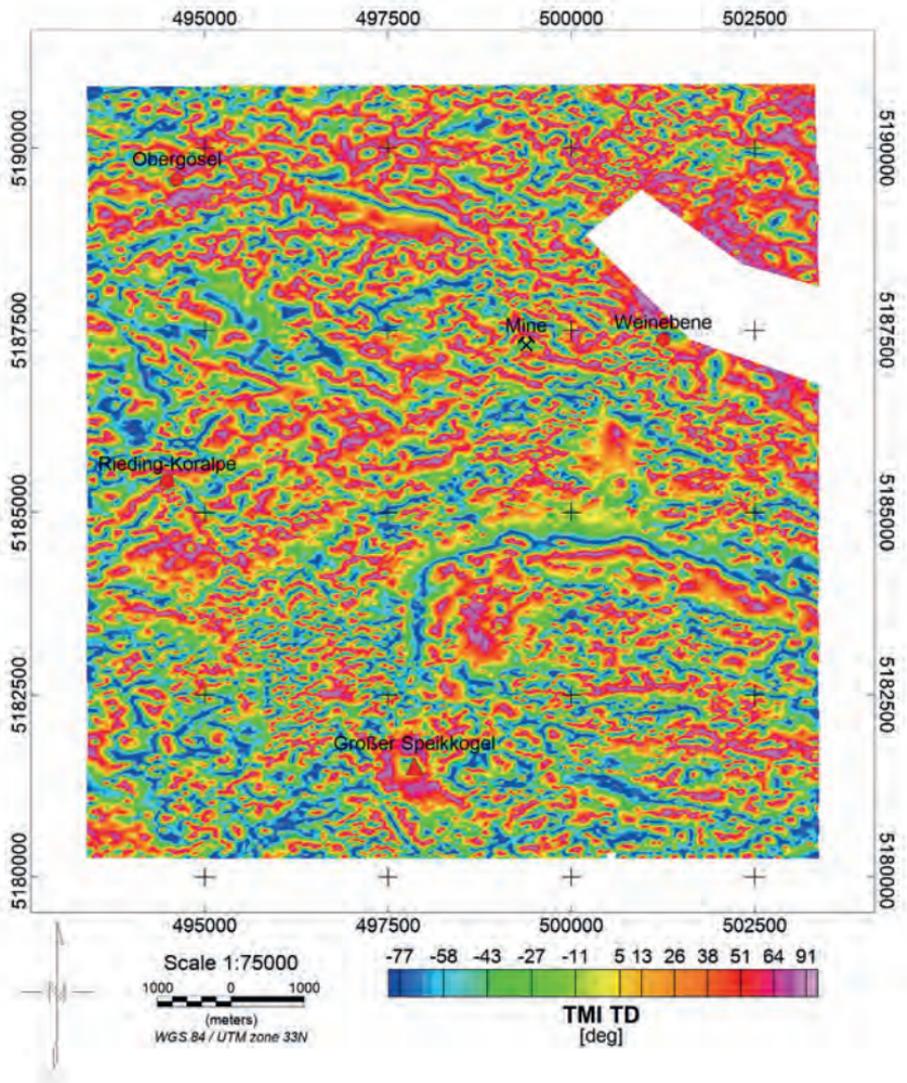


Figure 2: Magnetic tilt derivative (TD), Wolfsberg, Austria.

Figure 2 gives an exemplary magnetic map (TD) flown with the nose boom in alpine terrain at the demonstration site Wolfsberg. The small-scale strongly tectonically overprinted geology is excellently resolved which allows a detailed lithological and structural analysis to target areas with buried pegmatite potential.



Image 2: terratec data acquisition system and spectrometer rack mounted in the rear of an Airbus AS-350 helicopter. Image 3: Installation of the system into the helicopter.



Image 4: Navigational display for flying accurate survey lines and altitudes.



Image 5: Magnetics and radiometrics on AS 350 helicopter ready to take off.
Special processing fine-tuned for pegmatite exploration available and supported by GREENPEG Expert Team

Interested in the helicopter nose boom services? Contact us!

Managing Director Klaus Brauch
Terratec Geophysical Services
Email: info@terratec-geoservices.com
Internet: <https://terratec-geoservices.com/>
Internet <https://www.greenpeg.eu>

GREENPEG



Funded by the Horizon 2020
Framework Programme of the
European Union GA 869274

Layout: GKZ Freiberg eV Photos & figures: terratec

