

Electro-magnetic - Magnetic

- Small, sensitive magnetometers are commercially available and have been used by the UAV community to map ground anomalies and detect underground facilities.
- Fugro provide commercial airborne surveys using a small UAV
- UAVs have been used to map regions of interest at altitudes of ~120m (350'), searching for oil and gas deposits (insert)
- Hydronalix has first hand experience at operating a Quasar magnetometer (shown below) from a UAV platform
- The magnetometer weighs ~1 lb and is more sensitive than the commercial device flown by Fugro
- If operated at sea level, the signal response would be greatly improved

Potential applications

- Mapping magnetic anomalies
- Mapping geophysical features

