



Low-cost Satellite-based Monitoring Services for Oil & Gas Production and Storage Facilities

Overview

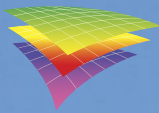
Our bespoke GNSS services are carefully designed to meet your precise requirements for monitoring ground movement – at a highly competitive price.

We provide 24/7/365 monitoring to detect centimetre-scale movements between an array of fixed stations in real-time.

Our complete solutions incorporate the latest GNSS hardware & software, comprehensive spatial processing, and expert interpretation, allowing you to detect ground motion in real-time, gain new insights into reservoir response, and ensure regulatory compliance.



**Geospatial
Research
Limited**



GNSS Monitoring

Our complete GNSS solutions are a tried-and-tested low-cost way to monitor ground movement

Wide-ranging Applications

- Monitor short-term and long-term ground movement that can occur in response to:
 - Oil and gas production.
 - Fracture stimulation, fluid injection, EOR.
 - Injection and withdrawal cycles in underground gas storage facilities.
 - Present-day seismicity (in areas of active tectonism).
- Receive early-warning alerts if significant motion occurs.
- Gain new insight into reservoir response during production and storage operations.
- Ensure regulatory compliance and liability limitation.

Complete GNSS Deployment & Processing

- Survey design.
- Equipment selection, assembly & installation.
- Spatial processing of raw data.
- Expert collaboration to aid your interpretation.

Various Equipment & Price Options

- Single frequency, short baseline positioning.
- Dual frequency, long baseline positioning.
- Up to 20 Hz data rate.
- Fully-autonomous solutions with data delivery.
- Long-term deployment.
- Easily integrated with our Lidar, UAV & other services.



GRL: About Us

- Founded in 2004, we have a proven record of commercial success in providing specialist services and multiclient studies for the energy sector worldwide.
- We are at the forefront in the application of new spatial technologies to improve geoscience interpretation, and have a very active research & development profile (<http://geospatial-research.com/research-archive/>).
- We have successfully deployed GNSS technology in many counties across UK, mainland Europe, the Middle East, Americas, and Australasia.

Discuss your needs:

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