

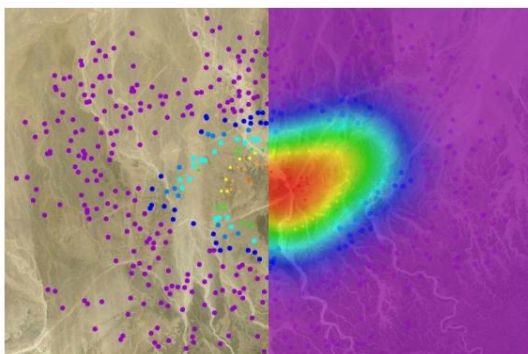
Measurement of surface subsidence and horizontal movements for the Oil & Gas industry

Job description:

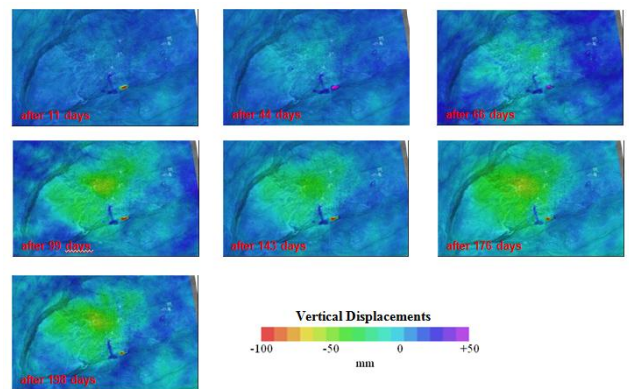
The oil and gas industry applies various methods to measure ground movement in order to support deposit modeling and optimization of oil and gas production. In the desert area of the Middle East, without disturbing surface vegetation, satellite radar interferometry (InSAR, PSI, SBAS) offers a suitable measuring method. Horizontal movements are determined with high accuracy using GPS measurements.

Services:

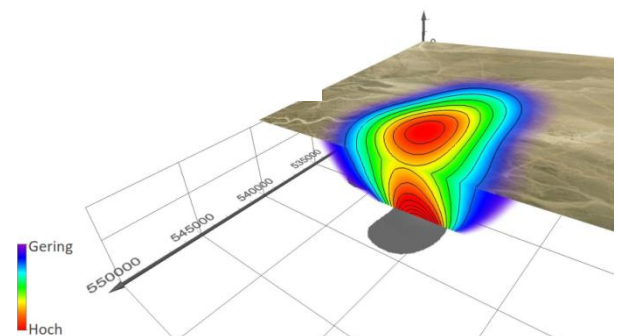
- Evaluation and processing of radar and GPS data and determination of ground movements over several oilfields in the Middle East for an area about 150 km²
- Campaign-wise analysis of GPS data (about 60 points per measurement network) using post-processing Bernese GNSS software
- Detailed comparison and integration of radar and GPS results
- Technical and scientific consultation of the client concerning subsidence movements based on DMT's 3D subsidence software



Integration of subsidence measurements and modeling



Oilfield subsidence measurements and subsidence development in time (PSI radar analysis)



Prediction of surface and strata movements based on production and subsidence measurement data

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