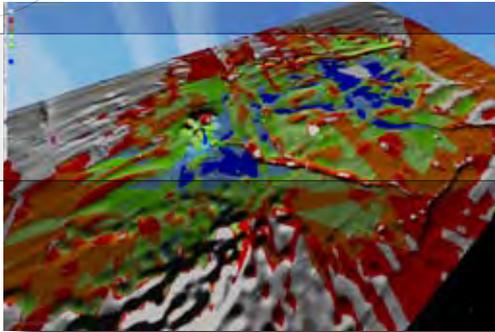


GeoLine 3D



Zone of visual ranges (ZVR) draped on the DTM. Ray Bending Analysis.

Subsea 7 purchases GeoLine3D with LBL array planning module

Marine software and engineering solution provider GeoLine is pleased to announce the sale of a GeoLine3D Survey licenses, with LBL-array planning module, to Subsea 7 – one of the world's leading subsea engineering and construction companies servicing the oil and gas industry.

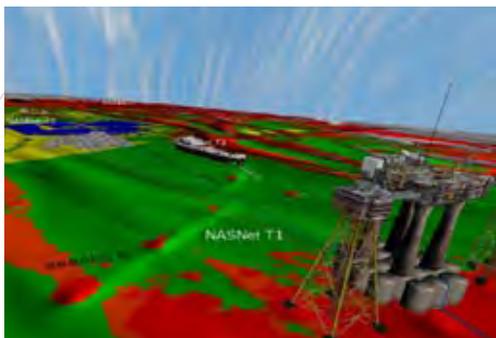
GeoLine3D (G3D) is a unique and powerful real-time dynamic visualization software for planning, exploring and analysis of any survey development works and for advanced pipeline/cable analysis. The revolutionising array planning module allows the user to improve the efficiency and assessment of preliminary and detailed array design, optimization and visualization within a realistic 3D environment (Digital Terrain Model, DTM).

Subsea 7 will use GeoLine3D for array planning using the advanced 3D coverage modelling, which uses sound velocity profile and terrain models to accurately calculate combined ray-bending and terrain interaction effects for multiple Transponders.

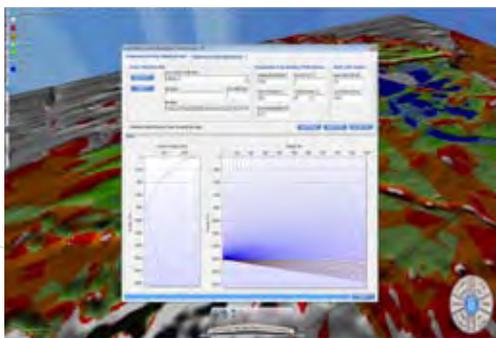
Multiple 3D transponders objects may be inserted in Real-time on the Digital Terrain Model (DTM) after which the user may carry out three types of coverage analysis; (1) maximum coverage (2) line of sight and (3) ray bending analysis. The analysis may be carried out for each active transmitter and the zone of visual ranges map rendered on the DTM. Each transmitter object has unique properties such as Sound Velocity Profile model, range and height above DTM etc. The user may also specify the receiver height.

For assessing the geometry of the array, and the influence of this on potential range errors, the new GSUP state-of-the-art array quality indicator and the Dilution of Precision (DOP) throughout the array can be calculated and the results rendered on the DTM.

For more information on the topic please visit www.geoline3d.dk or contact Torsten Strandgaard on +45 45875855 or on email info@geoline3d.dk



Zone of visual ranges (ZVR) draped on the DTM. The long baseline (LBL) array consists of 5 x 3D NASNet® Station objects placed on the DTM



Import of multiple sound velocity profiles (SVP). Calculation and display of ray bending profile based on SVP model and transponder depth

