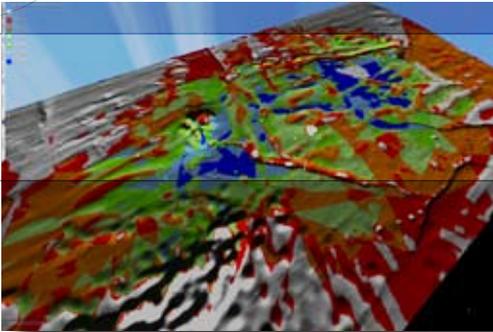
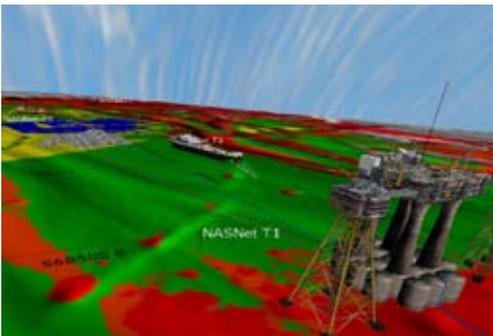


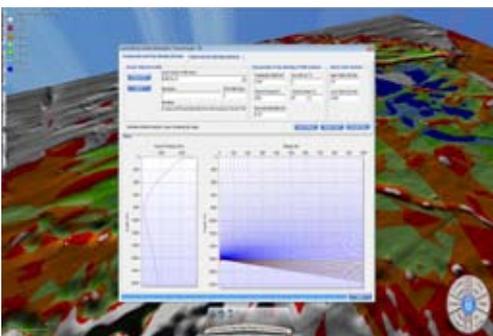
GeoLine 3D



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



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

Subsea 7 Experience with GeoLine3D (G3D) Ormen Lange Extension Project

Glenn Kristoffersen (Project Surveyor, Subsea 7 Norway) wrote the following:

“Geoline3D was used for the Ormen Lange Extension project in task planning and schedule optimising array design. From base we had assumed a theoretical requirement for more than 60 compatt to be installed. With good onshore planning the final number was reduces to less than 50 compatts. The SW has therefore proven it value and also saved offshore operation work.

From the as-installed integrity survey results the LBL coverage and intervisibility shows good comparison with the planned results from the G3D. Subsea 7 Norway and Ormen Lange project will in the time ahead look into further usage of the G3D SW for further line of sight for structure installation task, identification of optimal transponder location on structures, further data presentation to reporting and information to sub contractors”.

Doug Guy (Geomatics Specialist, Subsea 7 Aberdeen) wrote the following:

“GeoLine3D has been a revelation when it comes to array planning. No other software product comes anywhere close to matching the ability to design an array quickly, easily and intelligently, where the seabed topography is complex and multiple transponders are required.

Determining maximum coverage, baseline visibility, range calculation and geometric support has up until now been virtually impossible within a single software package or even with a combination of software packages. However all this is now possible in GeoLine3D. What would normally take days or even weeks to resolve can be done within hours”.

