

CGG Satellite Mapping Completes Barents Sea Seeps Study



CGG's Satellite Mapping group recently completed an innovative high-resolution hydrocarbon seeps study commissioned by the Norwegian Petroleum Directorate (NPD). The aim of the study was to increase petroleum system knowledge across a relatively data-poor area of the northern Barents Sea.

CGG Satellite Mapping has over 25 years of experience in the detection and

characterization of offshore seeps and slicks based on its expert remote sensing processing and analysis of Synthetic Aperture Radar (SAR) satellite imagery. To meet the requirements of the study, CGG Satellite Mapping custom-tasked next-generation SAR satellites to acquire a large collection of high-spatial-resolution SAR imagery at a high revisit frequency. Subsequent advanced processing and analysis by its experts identified the presence of small-scale naturally occurring seepage slick features, unlocking valuable subsurface intelligence.

Richard Burren, director of Satellite Mapping, [CGG](#), said: "By applying our world-leading remote sensing knowledge to imagery delivered by the latest satellite missions, our satellite mapping group provides clients with previously unobtainable insights into the presence and behaviour of natural seepage in offshore environments. These studies hold great value for increasing geologic system knowledge and decreasing risk, which is of particular interest across marginal areas of mature basins at present. They also complement our Seep Explorer product, the industry's only integrated global onshore and offshore seeps database for regional-to-target subsurface source de-risking."



Satellite image of part of the Barents Sea. (Courtesy: CGG & MODIS data courtesy of NASA).