

Spectrum and Airbus produce joint oil seep and seismic correlation study for the Adriatic Sea.

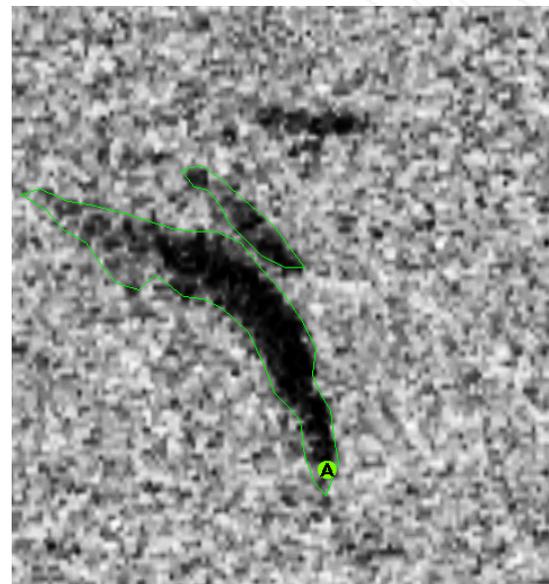
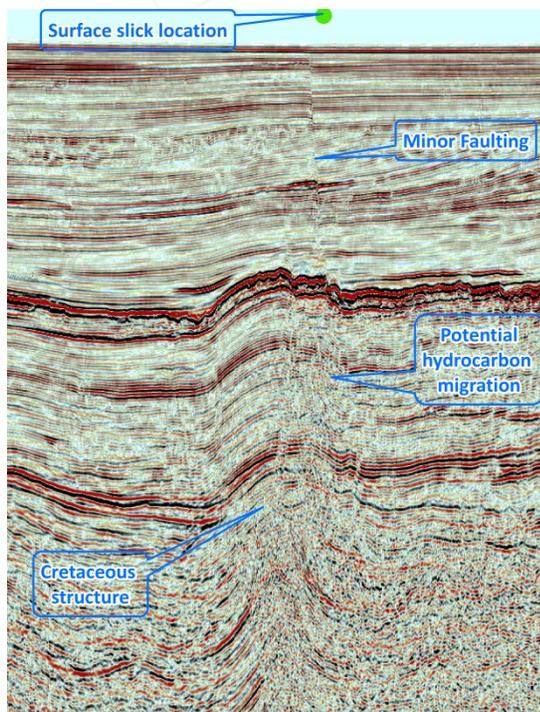
Seismic services company Spectrum and earth observation specialists Airbus Defense and Space have produced a collaborative study to correlate natural sea surface oil seeps identified using radar and optical satellite imagery with Spectrum's Multi-Client seismic data library in the Adriatic Sea.

This unique study is timed to coincide with Croatia's first offshore licensing round to help exploration companies assess hydrocarbon play systems at regional and individual license block level. Extension of the analysis in Italian waters also provides additional insight into the prospectivity of Italian waters.

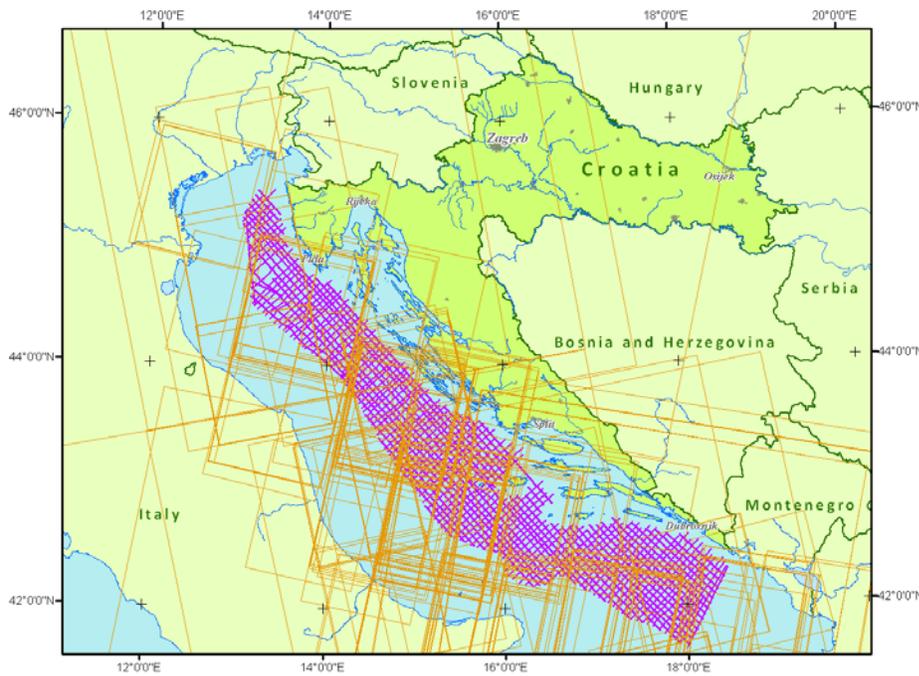
Results suggest a strong correlation between higher confidence slicks and structural features interpreted from a Spectrum 2D seismic survey acquired offshore Croatia in 2013. Seeps were found to be positioned in association with geological structures and potential seismic-interpreted Direct Hydrocarbon Indicators (DHIs), suggesting that active hydrocarbon migration is occurring and that a thermogenic source is responsible for some of the many instances of shallow gas interpreted in the seismic lines.

Analysis also suggests migration pathways along faults are being utilized by hydrocarbons sourced from the Triassic. In addition some of the slick observations have revealed hidden prospectivity, drawing attention to legitimate potential leads not previously identified by seismic interpretations alone.

Based on the results of the seep seismic-correlation study a series of case studies have been produced to further explore the relationships observed and have been documented in a comprehensive report comprising an integrated ArcGIS project, featuring seep information (optical and radar), seismic case studies, structural interpretation and well locations, along with other supporting datasets. Ultimately this study provides a new perspective on the hydrocarbon potential in the region, supporting both the ongoing licensing round and future exploration



Seismic section showing slicks located above major thrust/anticline. Thrusting projects from Cretaceous to Messinian with further faulting to the sea floor. Sea surface slick identified from radar imagery shown in the right image.



Adriatic Study Area.
The purple lines
represent the 2013
Spectrum seismic
survey and the
orange polygons are
the radar scenes
extracted from the
Airbus DS Global
Seeps database.
Selected analysis

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About Spectrum

Spectrum provides innovative Multi-Client seismic surveys and high-quality seismic imaging services to the global oil and gas industry from offices in the UK, Norway, USA, China, Egypt, Australia, Indonesia and Singapore. Spectrum designs, acquires and processes seismic data to deliver high quality solutions through its dedicated and experienced workforce.

Spectrum holds one of the world's largest libraries of Multi-Client 2D marine seismic data. The company's strategy focuses on both the major, established hydrocarbon-producing regions of the world as well as key frontier areas identified by our experienced team of geoscientists. The Spectrum library of Multi-Client data contains projects from many of the foremost oil producing regions of the world. These include new acquisition, reprocessing and interpretation reports.

About Airbus Defence and Space

Airbus Defence and Space is a division of Airbus Group formed by combining the business activities of Cassidian, Astrium and Airbus Military. The new division is Europe's number one defence and space enterprise, the second largest space business worldwide and among the top ten global defence enterprises. It employs some 40,000 employees generating revenues of approximately €14 billion per year.