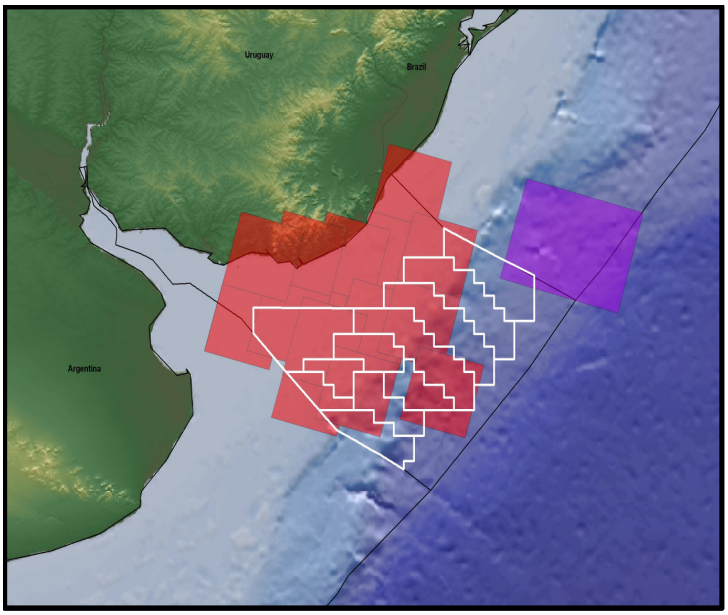
Fugro NPA's 2009 Offshore Uruguay SAR Seep Study

Rationale for Study

- The Uruguayan government has recently launched a 2009 offshore licensing round, comprising 11 blocks ranging from 4000 to 8000 sq. kms at water depths of 1000 to 3000 metres.
- Prospectivity of the region has recently been heightened by the discovery of giant fields in similar deep-water settings in the Santos Basin, Brazil.
- However one of the critical factors to exploration success is source presence and maturity, which FNPA's SAR seepage data has partly addressed by our present coverage (fig 1).



FNPA archived SAR data. ***Red*** *indicates ERS/Envisat scenes,* ***purple*** *indicates Radarsat coverage.*

Fugro NPA Seep Data

- SAR (Synthetic Aperture Radar) seep detection is a proven technique for mapping surface oil seeps and can provide the first indication of the existence of black oil petroleum systems.
- FNPA have excellent SAR coverage of the entire South American region, and over 15 years experience in satellite seep detection globally.
- FNPA have single SAR coverage over c.70% of the 11 blocks (fig.1), which is available now in fully GIS compatible format.
- An additional 80 weather-compliant scenes have been identified which will provide up to quadruple coverage over all blocks.

Components of Fugro NPA's Uruguay Study

- 22 interpreted SAR scenes providing c.70% single coverage over much of the Uruguayan waters (see fig 1).
- To date, 98 slicks mapped, most of which are seepage slicks indicating presence of oil petroleum systems.
- Few polution slicks – less than 20% of total only.
- Additional compliant data being acquired to provide multiple coverage over all blocks to identify repeats.
- Results presented in ArcGIS 9.2 format (or equivalent) for large or small areas.
- All scenes and slicks fully geo-referenced
- Slick density and slick repeat data.

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