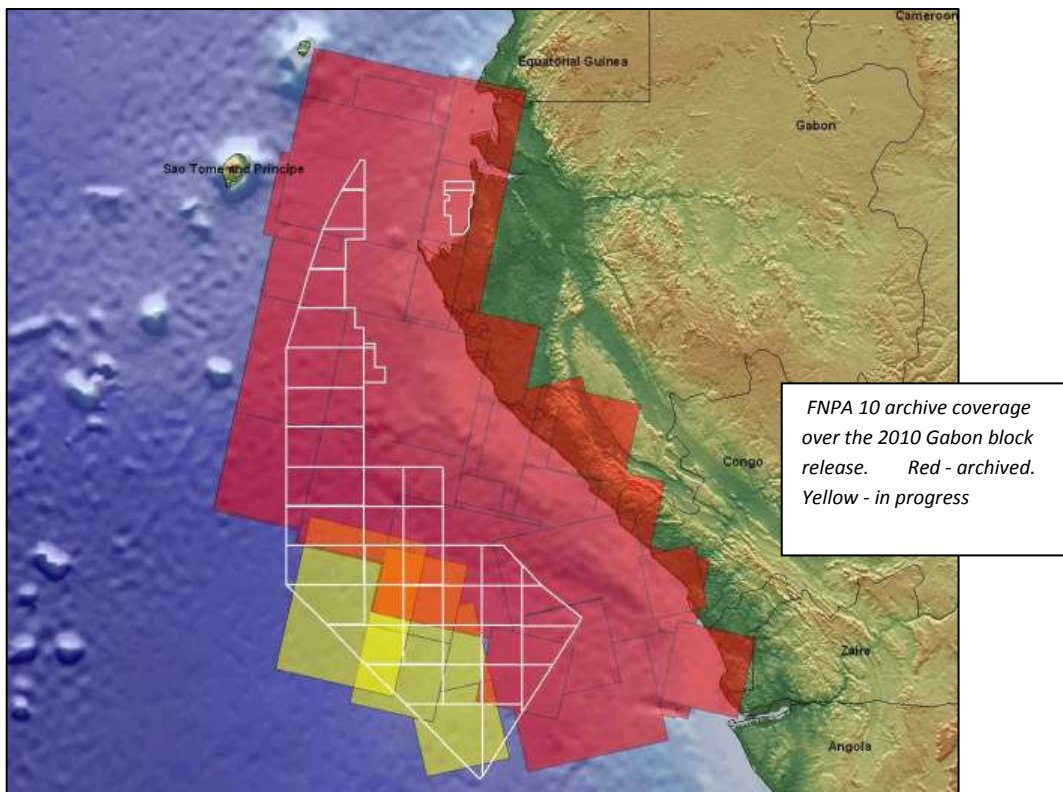


FNPA 2010 SAR seepage study - Gabon

Recent successes in the African Bight, particularly the 2007 Jubilee and the 2009 Tweneboa Turonian discoveries offshore Ghana, have stimulated interest in the West African Margin. In Gabon there has also been recent increased exploration activity resulting in increased reserves over the last 15 years to an estimated 2.6 billion barrels.

The main focus of this round will be the high potential, pre-salt plays in water depths that exceed 2km some areas. These plays are geologically similar to the recent huge, deepwater discoveries in the Santos and Campos basins, offshore Brazil.

Fugro NPA is now releasing an updated SAR Seep Study (fig 1) that now covers all the blocks in the 2010 round. Seep detection by SAR (Synthetic Aperture Radar) is a proven technique for mapping surface oil seeps which could provide the first indication of (black oil) petroleum in these new deep-water plays.



- FNPA currently has 48 SAR scenes over the blocks, providing up to 5x coverage blocks. FNPA is currently in the progress of bringing the remaining coverage up to at least double coverage across all blocks through the acquisition of 7 new scenes.
- FNPA have mapped 799 slicks, with 1 definite seepage slick, 82 probable seepage slicks and 290 possible seepage slicks identified, indicating presence of oil petroleum systems in certain basins.

Please contact Fugro NPA's Offshore Remote Sensing team for more information:

Address: Fugro NPA limited, Crockham Park, Edenbridge, Kent, TN8 6SR, U.K.

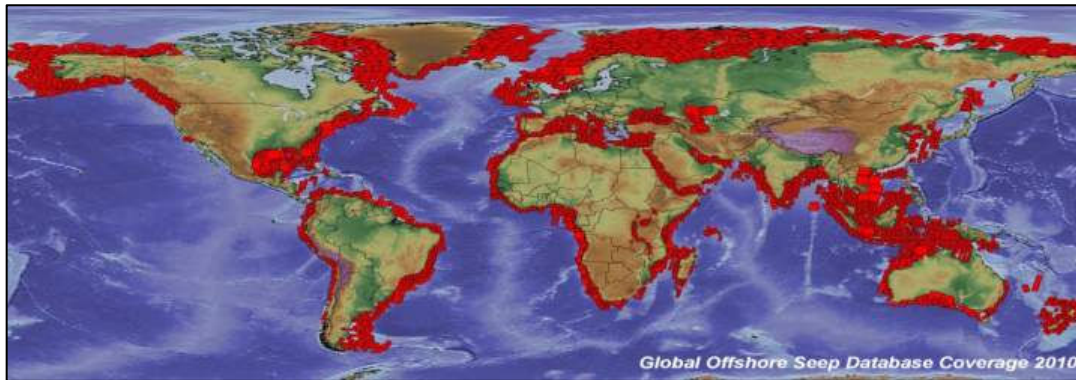
Tel: +44 (0)1732 865023, Fax: +44(0)1732 866521

Email: offshore@fugro-npa.com

Web: www.fugro-npa.com

Global Offshore Seepage Database

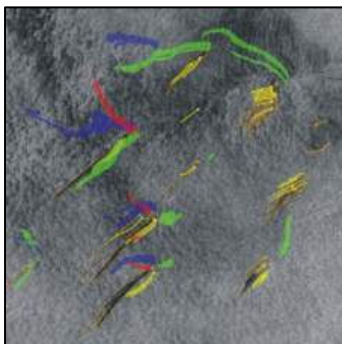
World's leading offshore seepage database detected by satellite radar



The Fugro NPA Global Offshore Seeps Database (GOSD) contains over 11,300 interpreted SAR (Synthetic Aperture Radar) scenes and covers over 85% of the world's offshore sedimentary basins.

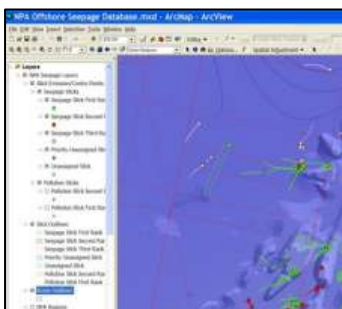
Additional unique features are:

- Repeats database & seepage intensity maps - related to basin leakiness parameters
- Seep data accessible via the Tellus geological database (planned launch 3Q,09)
- Available with onshore seeps & geochemistry from Fugro Data Solutions (FDS) to generate a unique global seep database
- Complete Fugro validation chain - Seeps - Multibeam - Drop Cores - Geochemistry



Coverage

- Multiple coverage - minimum dual throughout and in places up to 10x
- Optimal SAR data selected from weather screening of the entire world's SAR archives
- Data integrated & interpreted with supporting Fugro geological, geophysical & geochemical data
- New higher resolution data from ALOS, TerraSAR-X & Radarsat 2 satellites now being incorporated



Deliverables

- Full ArcGIS deliverables with all scenes & slick images geo-referenced hyperlinked
- Unique repeats database comparing seep location from multi-date coverage
- Results overlaid and compared to collateral data layers including: bathymetry, gravity, sedimentary thickness, magnetics, shipping lanes and shipping wrecks
- New ship & rig layer available for all scenes to complement the interpretation

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