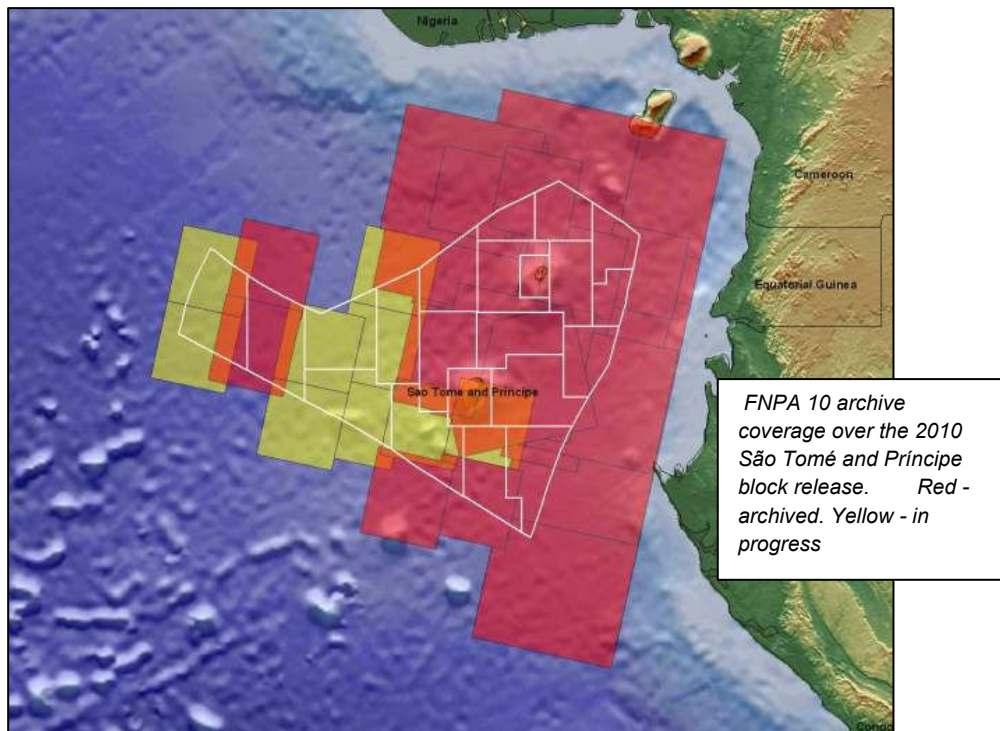


## FNPA 2010 SAR seepage study - São Tomé and Príncipe

The recent successes offshore Ghana, particularly the 2007 Jubilee and the 2009 Tweneboa Turonian discoveries, have stimulated interest in the West African Margin, particularly as this play fairway has now been extended far to the west, following the Venus B-1 discovery well in Sierra Leone. Existing FNPA SAR seep work had previously identified potential seepage slicks in all these discovery blocks.

In light of this interest, **São Tomé and Príncipe** have issued a call for bids for blocks in its offshore EEZ. According to CGG Veritas, regional fairway mapping of deepwater West Africa has high graded the newly defined exploration waters of São Tomé and Príncipe where extensions to the petroleum systems of Nigeria, Equatorial Guinea and Gabon occur. The presence of oil reservoirs in the area has already been proven with seepage at the Ubabudo 1 well location (onshore Sao Tome).

Fugro NPA is now releasing an updated SAR Seep Study that now covers 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 systems in these blocks.



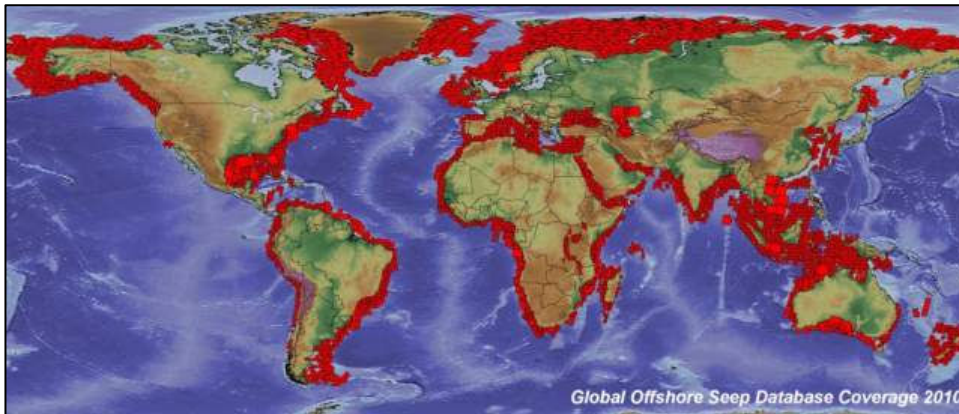
- FNPA currently has 35 SAR scenes over the blocks, providing up to 5x coverage over the northwest blocks. FNPA is currently in the progress of bringing the remaining coverage up to the same level.
- FNPA have mapped 351 slicks, with 43 high probability seepage slicks and 75 possible seepage slicks identified, indicating presence of oil petroleum systems in certain basins.

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

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## Global Offshore Seepage

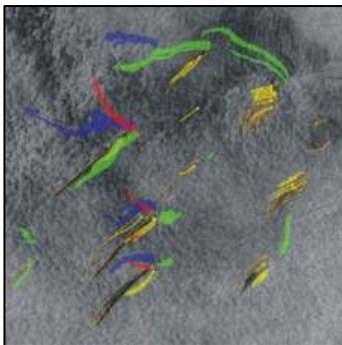
*World leading offshore seepage database detected by satellite radar*



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.

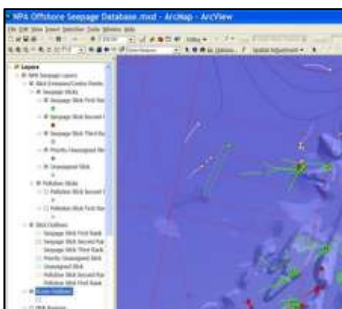
*Additional unique features are:*

- 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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