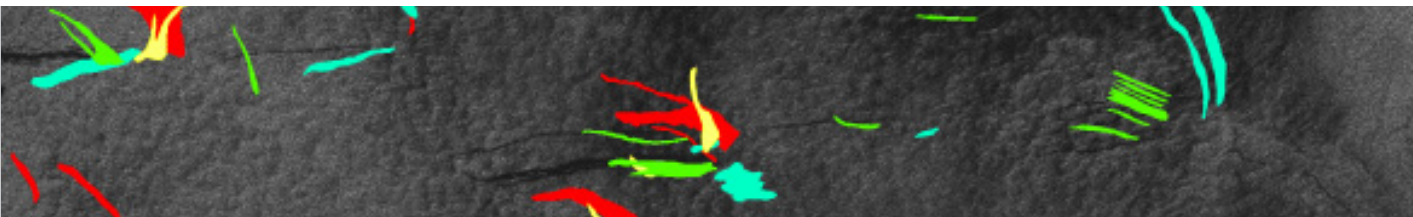




## 2012/13 Seepage Study - Greenland



As a world leading satellite remote sensing service provider Fugro detect, interpret, classify and monitor natural seepage and pollution slicks occurring in offshore environments

### Greenland Block Release 2012/13

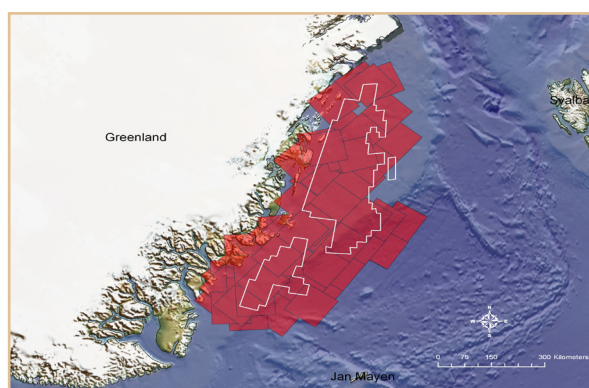
The Government of Greenland has recently approved a new North East Greenland offshore licensing round, comprising a Pre-round in 2012 and an Ordinary round in 2013. A total area of 50,000km<sup>2</sup> will be released and details of the gazetted blocks will be announced at the Houston AAPG on 12th April 2011.

East Greenland is a completely untested frontier basin area with zero exploration wells. The USGS estimate that this region could yield up to 31 billion barrels of oil equivalent reserves. Source presence is a key risk that the FNPA seepage study will address.

There are indications that petroleum systems may be present in the East Greenland Basin as there are a number of onshore 'seeps' reported along approximately 1,000km of the adjacent coastal belt, described mostly as bitumen impregnations or encrustations, which occur in a wide variety of host rocks from Precambrian to Tertiary. Any geochemical information from these seeps would be invaluable, especially if combined with satellite seep data that has been obtained over this region by Fugro NPA.

### SAR Data Coverage

- By carefully selecting only wind-compliant and ice-free scenes in this region, Fugro NPA have acquired and interpreted a total of 79 satellite SAR scenes over the NE Greenland Sea Licensing Round area. This has resulted in the identification of 164 slicks in total, an encouragingly large amount in such a challenging environment. Moreover, the slick density is not dissimilar to that observed over the conjugate margin basins in the Norwegian sector.
- Twenty percent of the slicks interpreted may represent the surface location of black oil seeps. Multiple coverage has also allowed us to identify potentially significant repeat seeps, further increasing the likelihood that parts of the area contain active petroleum systems, and by inference leaking oil accumulations.



Fugro NPA archive coverage over the Greenland bidding block release, 2011. Red: interpreted scenes, White: license block region

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