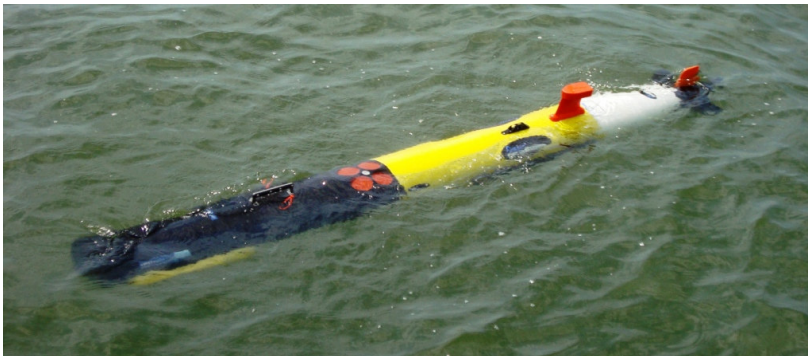


Survey Note No.: 0802

Location:	North Sea, off Ameland, Netherlands
Date:	June 2008
System Used:	SWATHplus RS100 operated on REMUS 100
Ancillaries:	Kearfott T16 INS

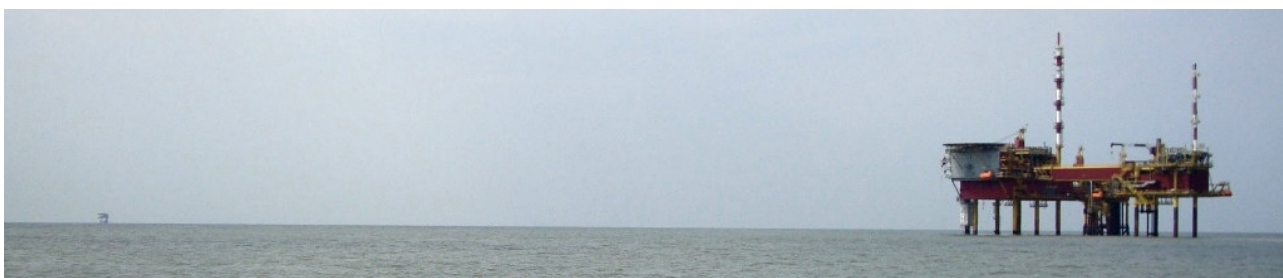
SWATHplus RS100 sea trial with REMUS 100 autonomous underwater vehicle (AUV). Offshore gas platforms imaged at close range, pipeline route mapped and debris area surveyed. A four-hour mission surveyed: two platforms, a 5km pipeline route, and a 1200m × 400m site survey. Motion sensing and positioning from a Kearfott inertial navigation system (INS) fitted to the REMUS vehicle. Data processing and imaging using the SWATHplus software suite.



*REMUS 100 with
SWATHplus RS100*



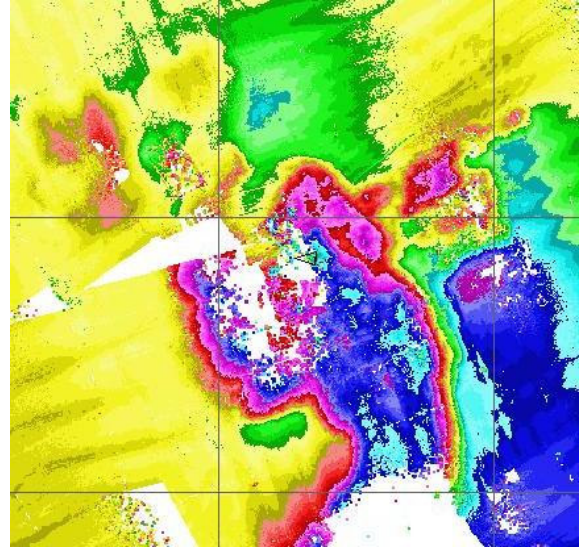
*Monitoring the AUV with
Acoustic Communications*



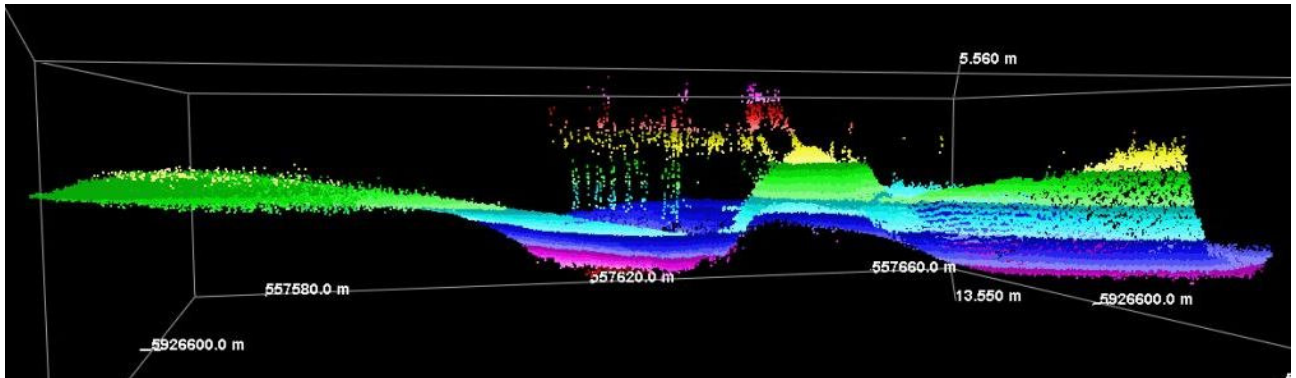
The survey area, showing the two platforms



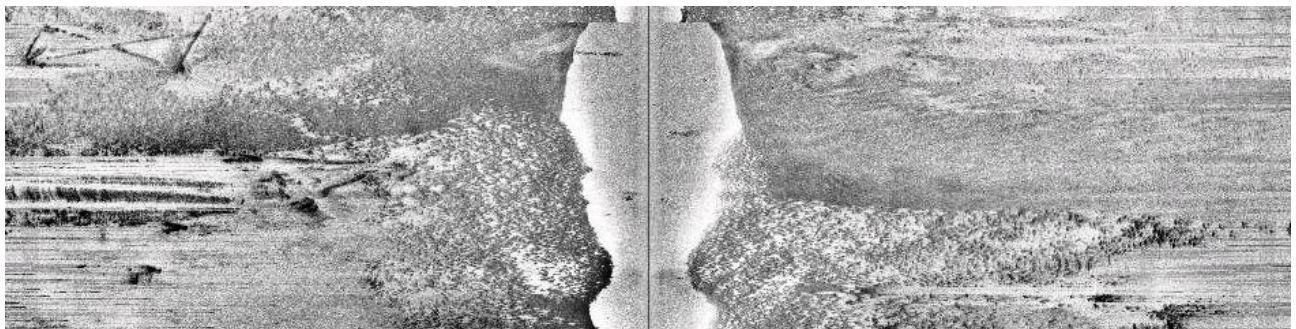
REMUS with RS100 on Deck



Colour Bathymetry Plot of a Platform



3D Point Cloud Image of a Platform



Sidescan Waterfall Image of a Platform