

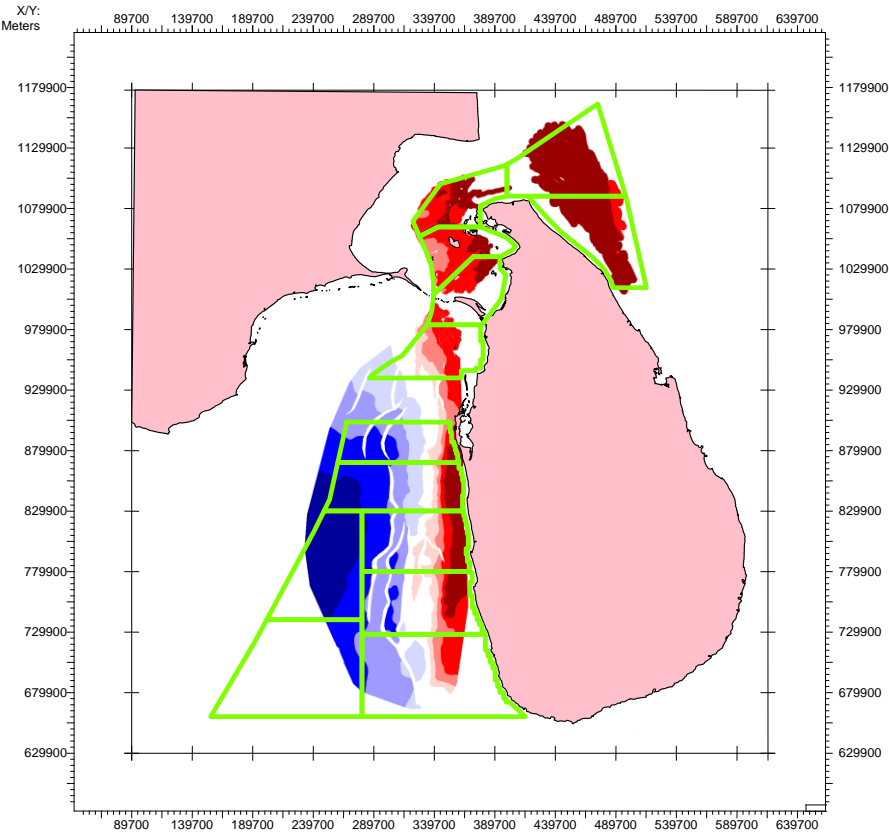
# Registration and Digitisation of Time Interpretations for the Sri Lanka Sector of the Cauvery Basin



Calderdale Geoscience Limited (CGL), a Geoscience Consultancy established in 2004, in association with Consultant Reservoir Engineer AJ Jayasekera, have been authorized by PRDS Sri Lanka to digitize the seismic images, stacking velocities and two way time interpretations from legacy 2D seismic and seismic mapping in the Sri Lanka Sector of the Cauvery Basin. The seismic was originally acquired during the 1970s and 1980s and to date have been available in original hardcopy at PRDS and as scanned images of variable quality.

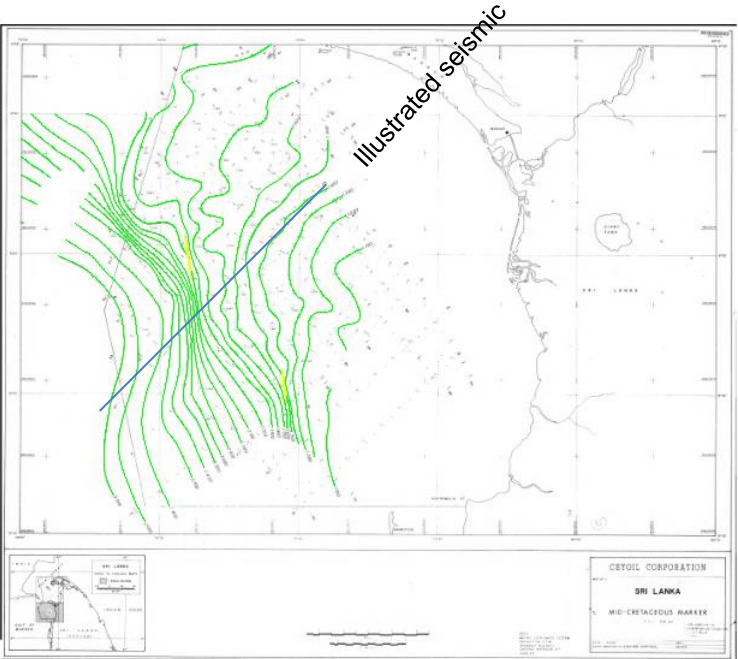
Technical work completed:

All the available two-way travel-time (TWTT) maps have been georegistered and are available for purchase. The two-way travel-time contours have been vectorised and the resulting values gridded to reproduce the surfaces in two-way travel-time. These surfaces can be loaded to any work-station software to be viewed in conjunction with any available seismic. Fault polygons have also been digitised.

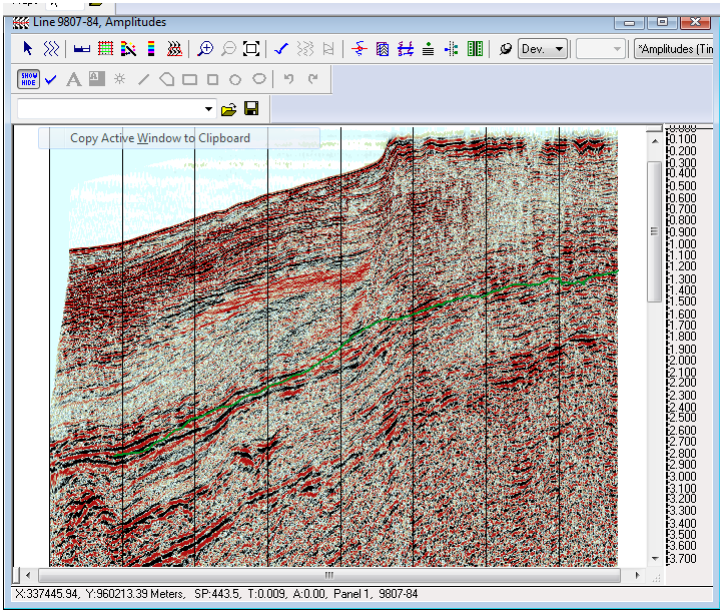


Current Extents of Basement TWT grid coverage

## Digitizing Example: Typical workflow



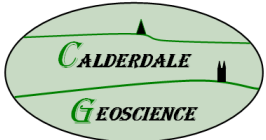
An example scanned image with TWTT contours from the Cauvery Basin is shown to the left. The contour lines from the original georegistered, grey-scale image have been vectorised and are drawn as green lines. Below, the green contour lines are gridded and posted as a surface (green) on the illustrated seismic line :



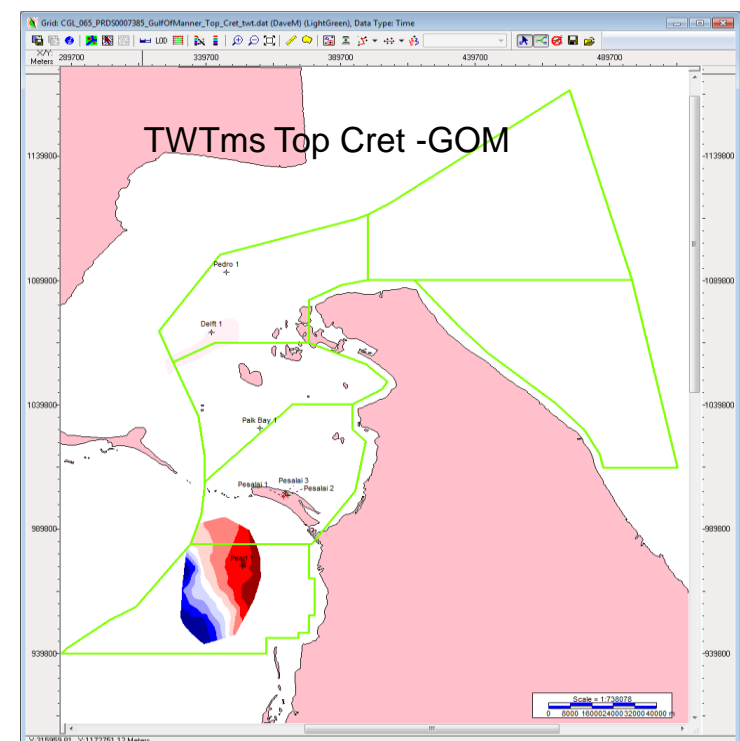
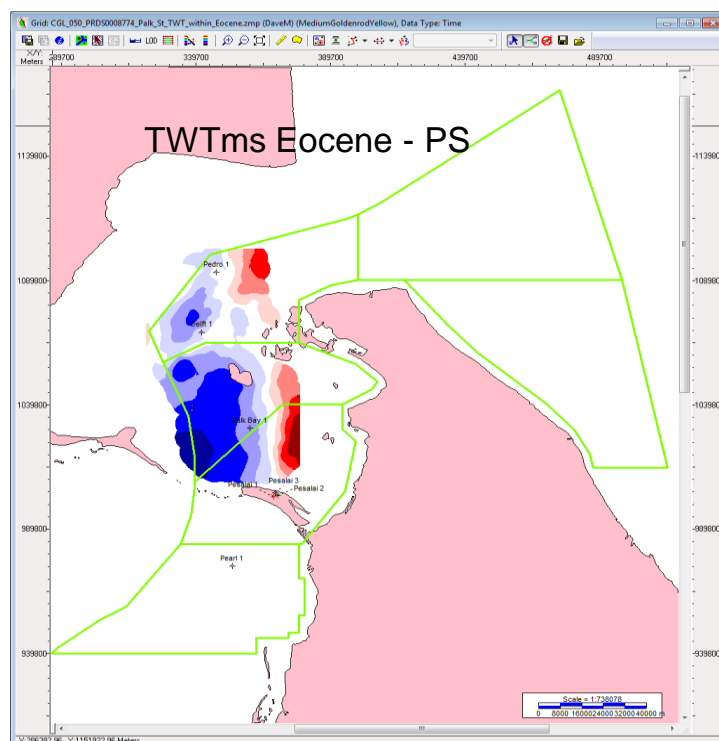
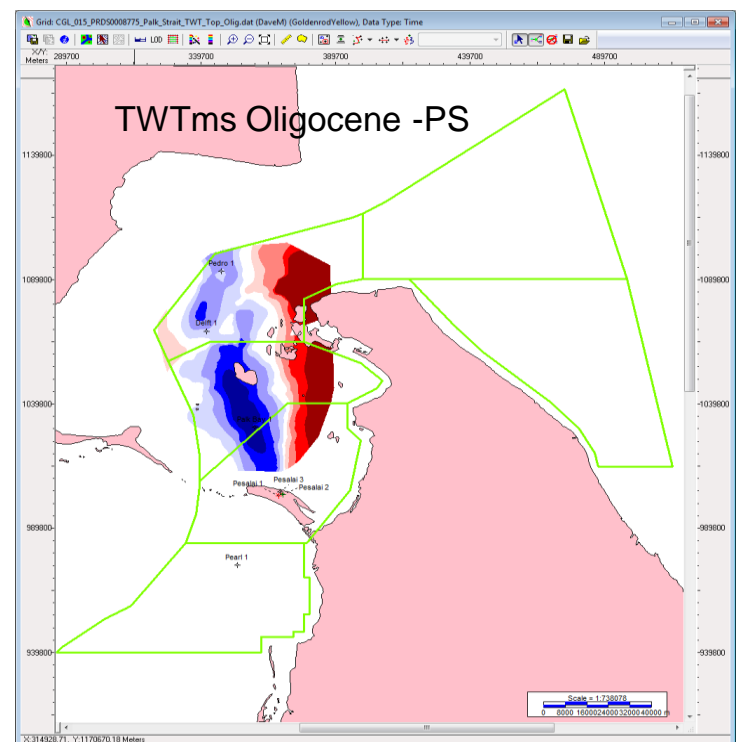
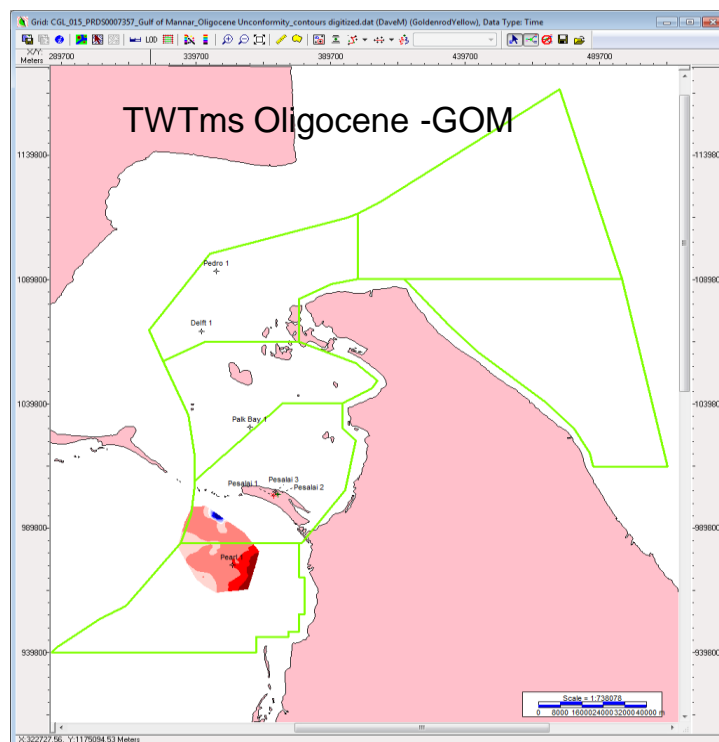
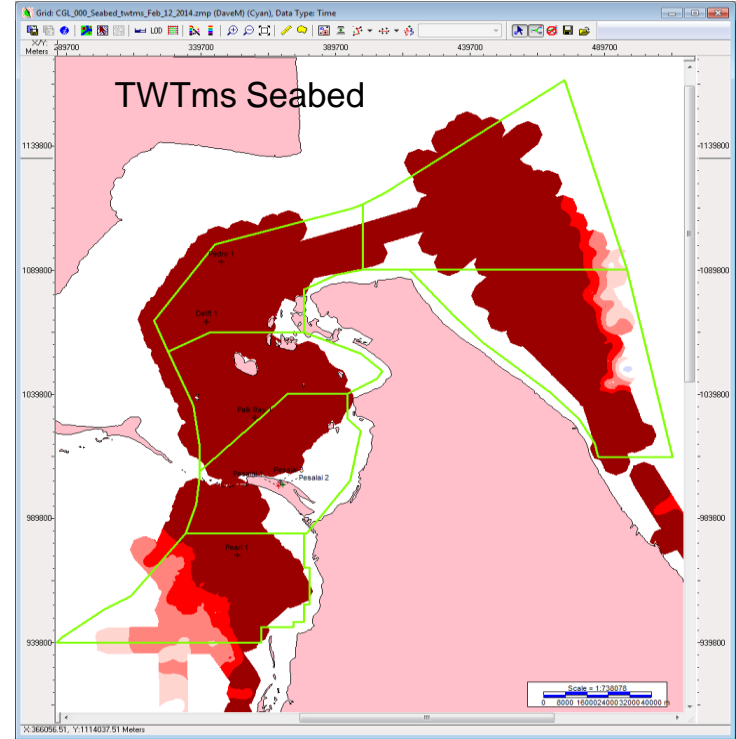
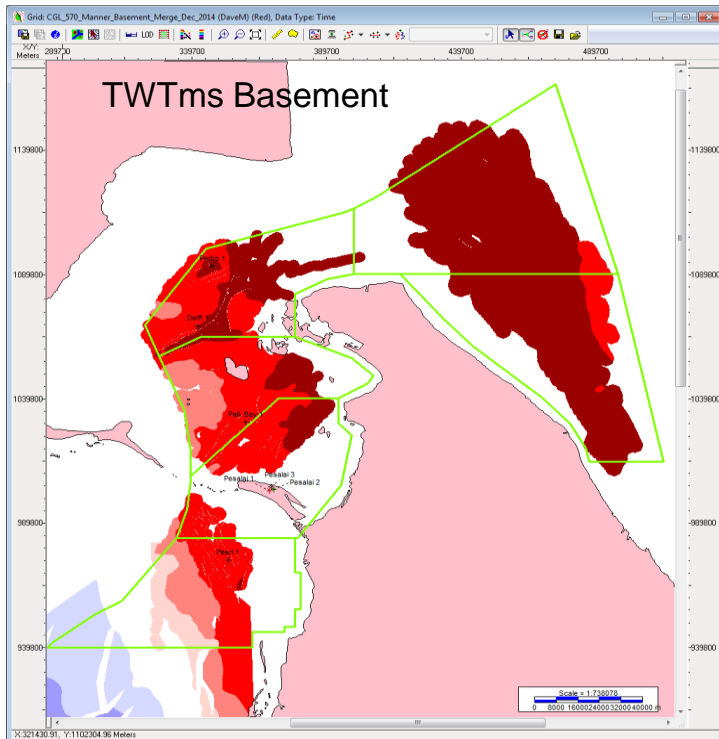
## Currently Available Georegistered Images and Surfaces:

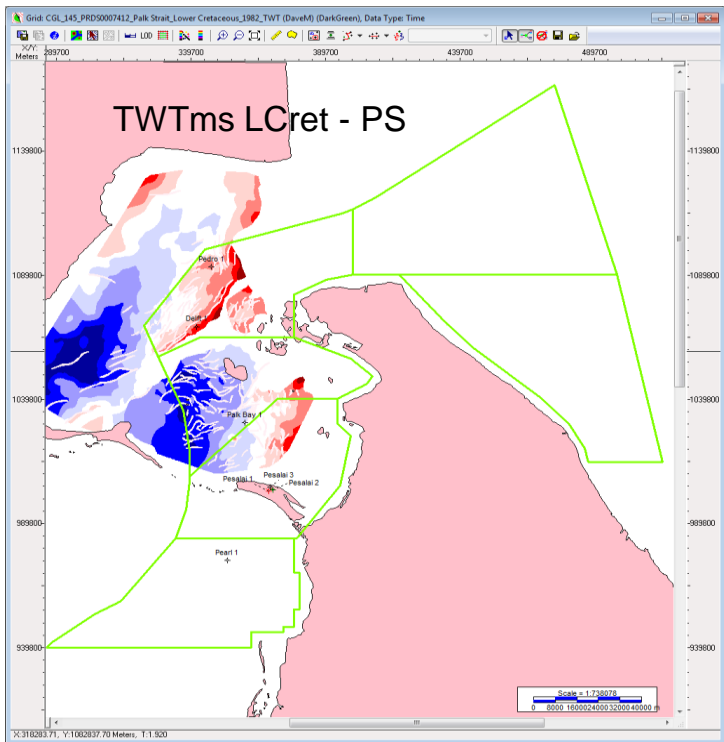
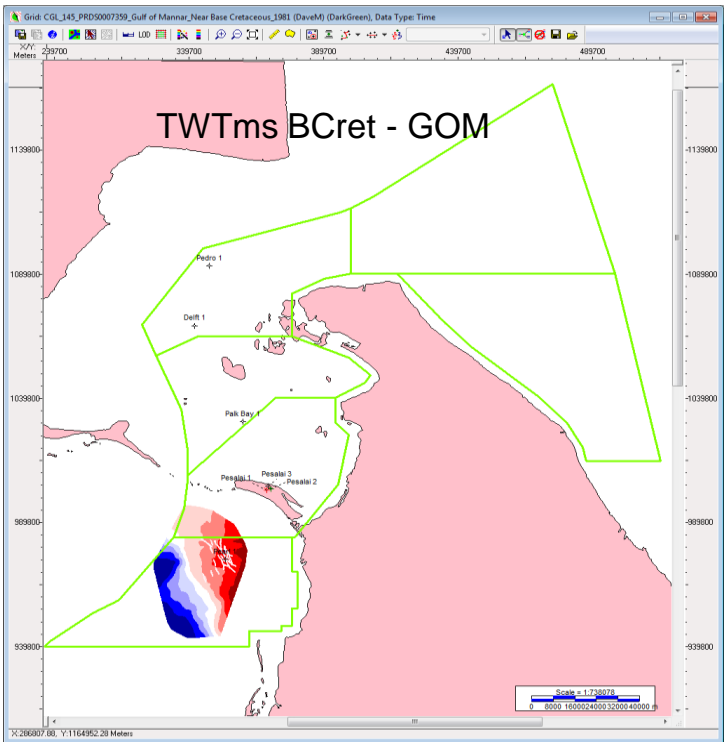
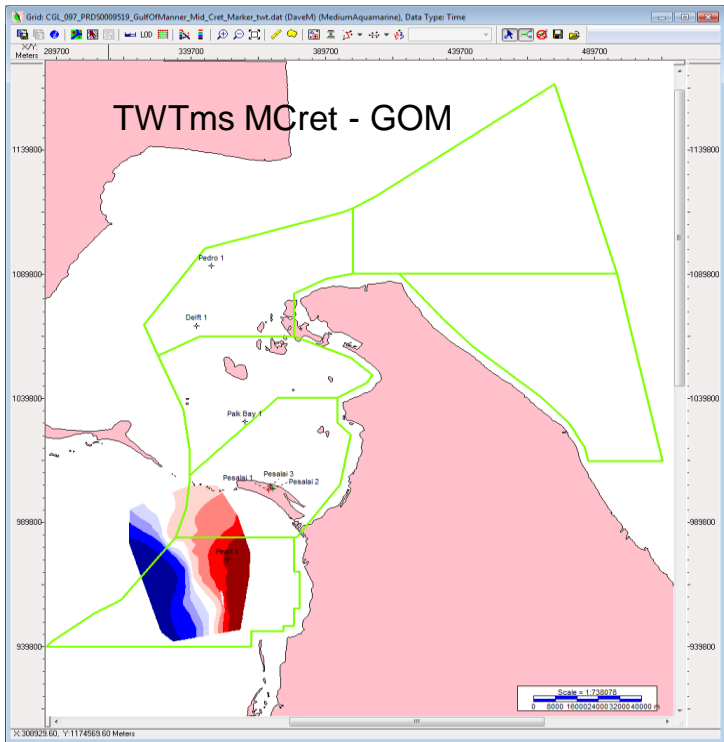
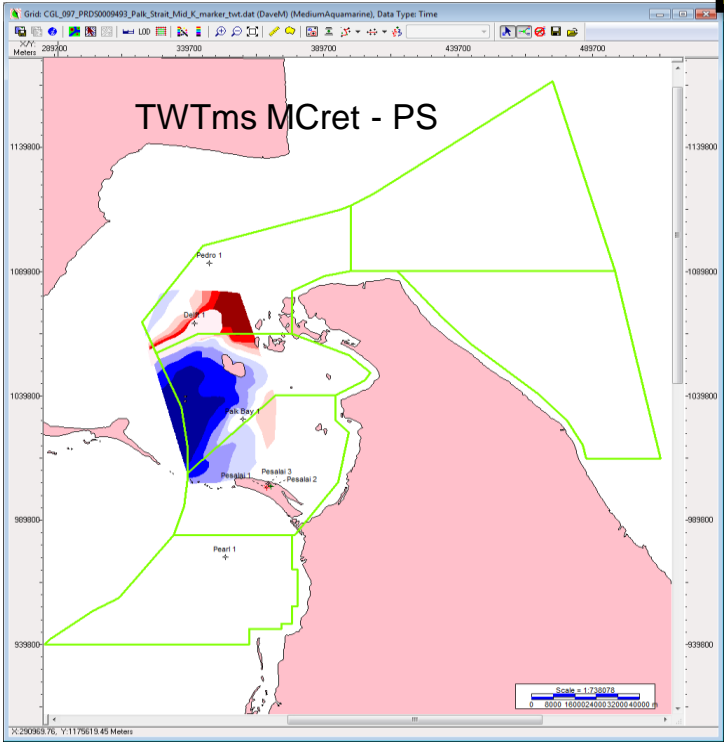
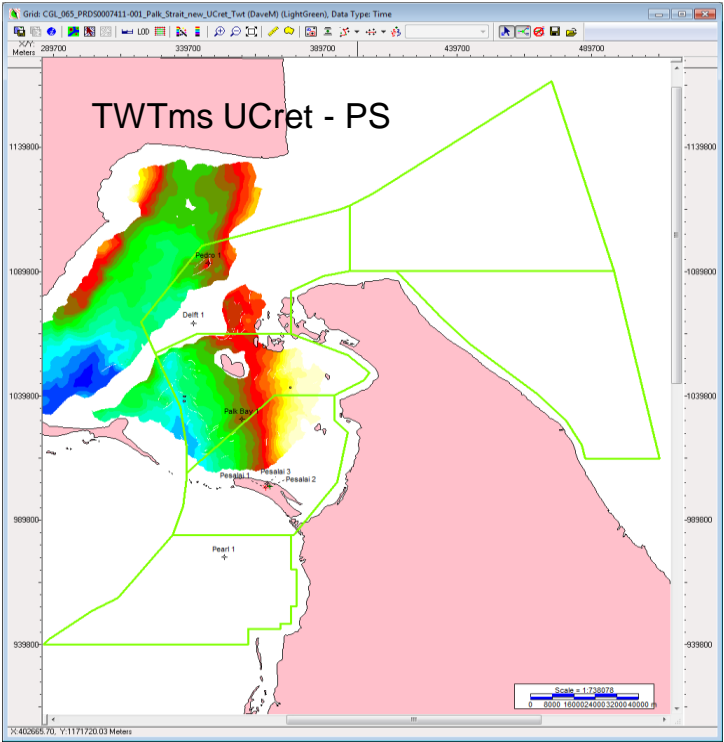
PALK STRAIT		
Geological Horizon	Registration	Year
Basement	PRDS0009861	2001
U Cretaceous	PRDS0007411	1982
L Cretaceous	PRDS0007412	1982
L Cretaceous Sandstone Structure	PRDS0007362	1981
Mid Cretaceous marker	PRDS0009493	1976
Oligocene	PRDS0008775	1983
Eocene	PRDS0008774	1983

GULF OF MANNAR		
Geological Horizon	Registration	Year
Basement	PRDS0009860	2001
U Cretaceous	PRDS0007385	1983
Mid Cretaceous marker	PRDS0009519	1976
Near Base Cretaceous	PRDS0007359	1981
Oligocene Unconformity	PRDS0007357	1981



# Grids Extents Images





All Products of the Technical Work described in this brochure are available for purchase

Contact: A J (Tissa) Jayasekera  
Calderdale Geoscience Limited  
Tel. +44(0)7715777890  
Email. [t\\_jayasekera@yahoo.co.uk](mailto:t_jayasekera@yahoo.co.uk)