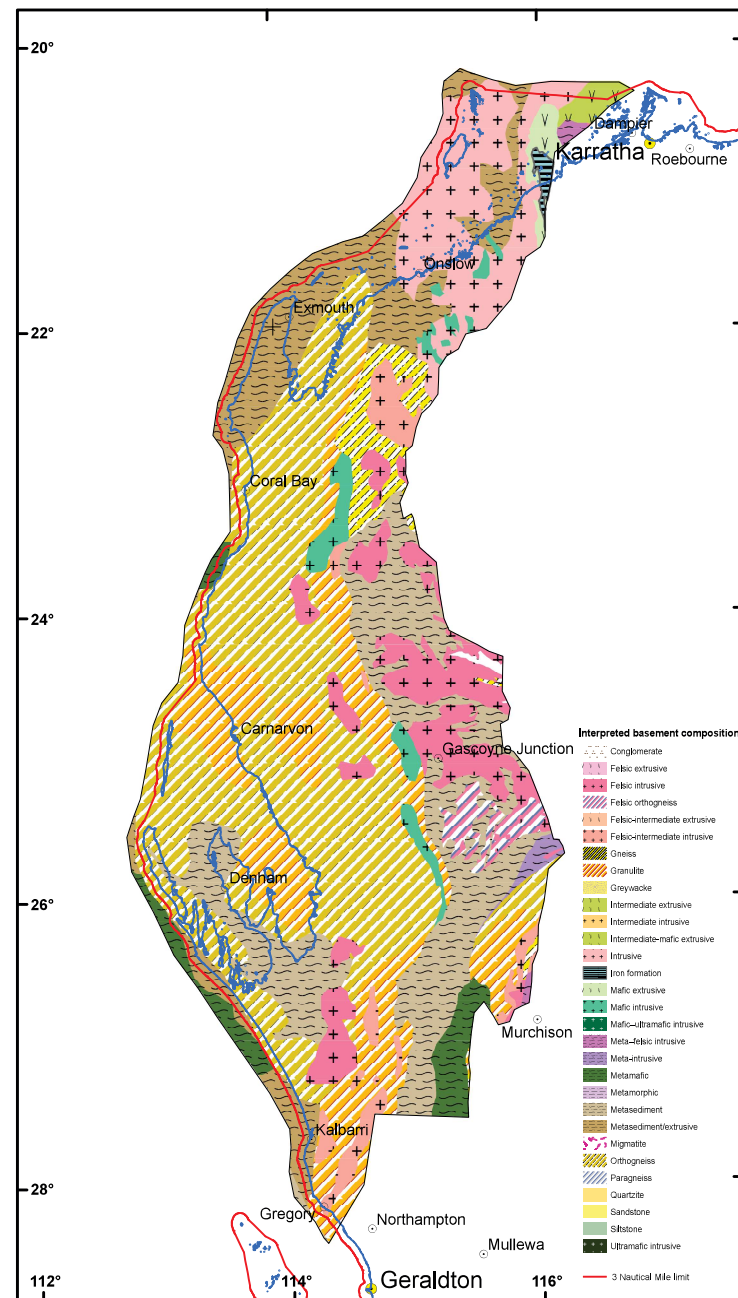
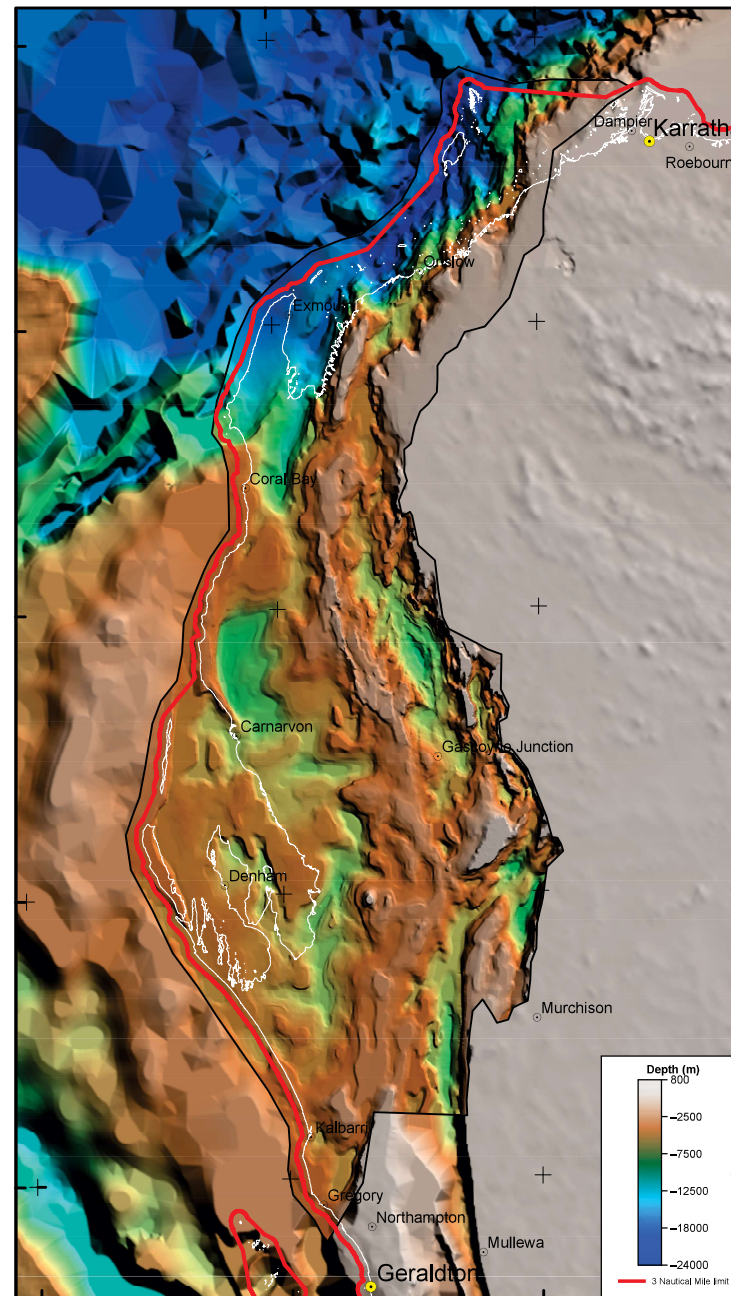


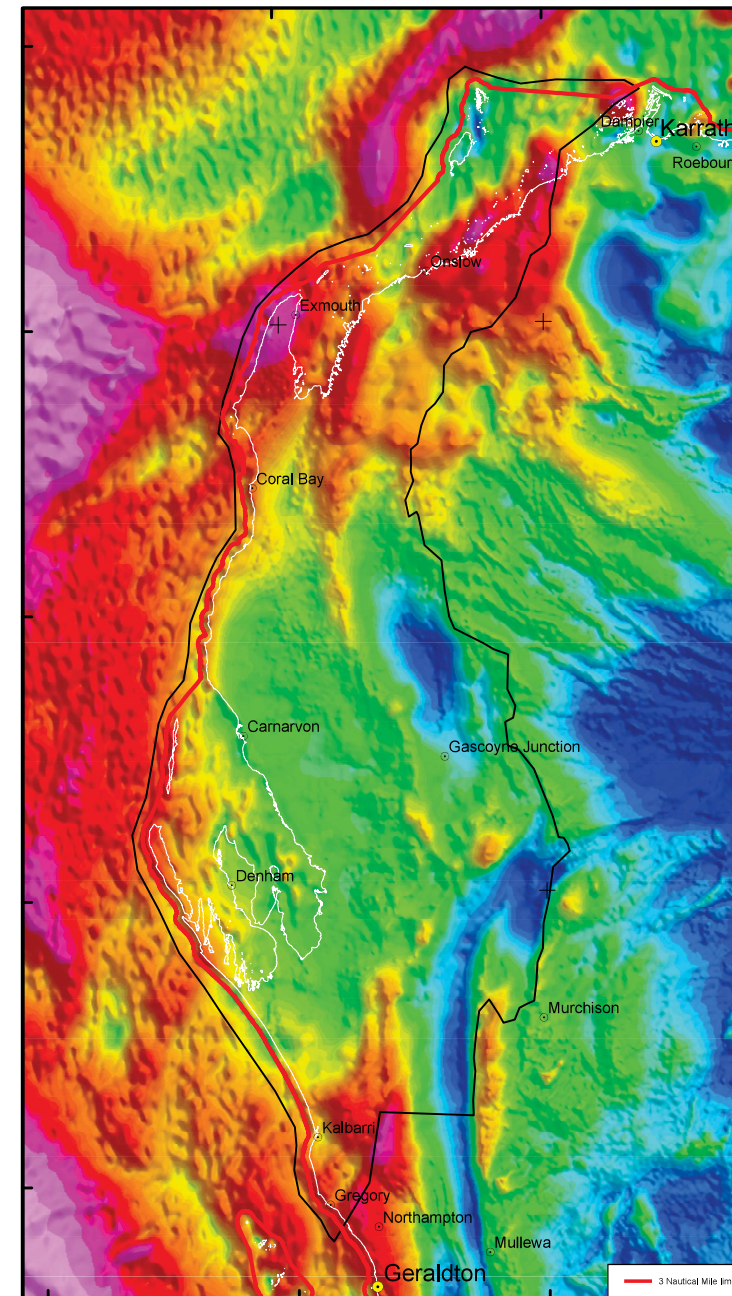
CARNARVON BASIN SEEBASE PROJECT



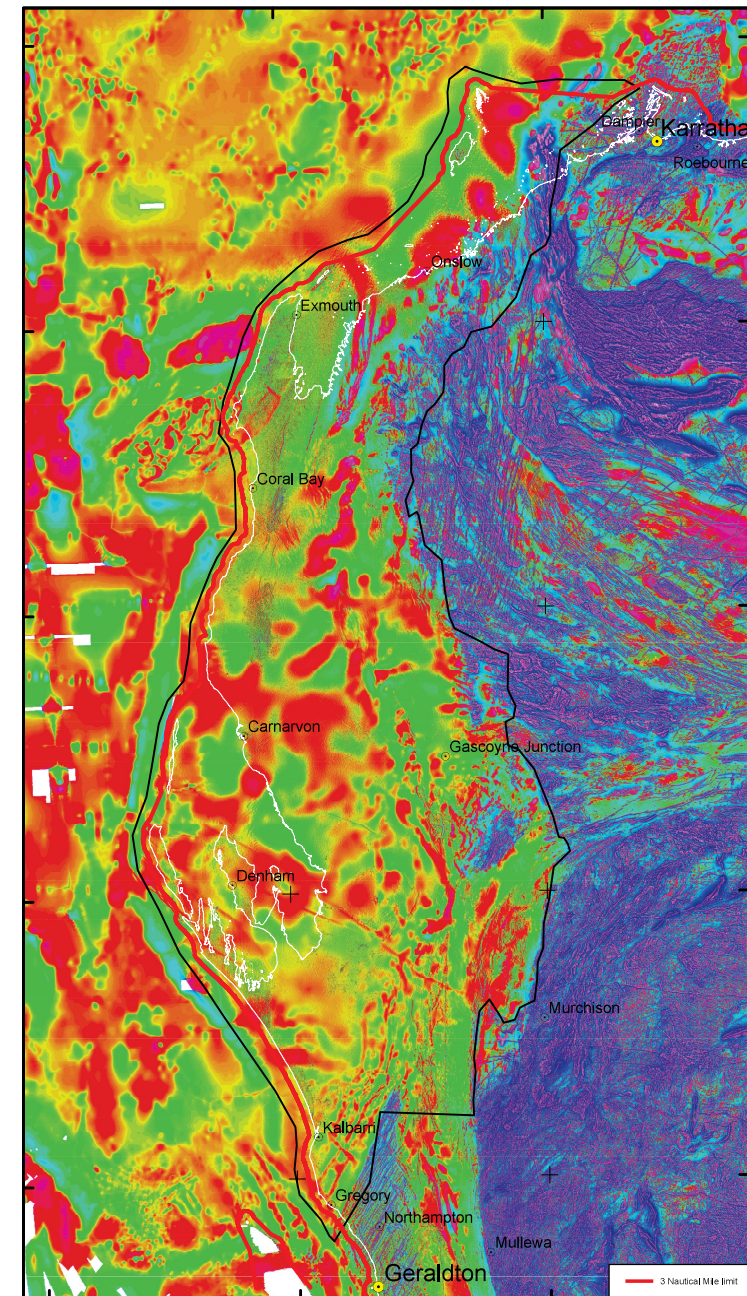
Interpreted basement composition map, based on potential field data character and deep crustal seismic lines



Updated SEEBASE (depth-to-economic basement) image within project area (black polygon); outside project area the image is the original 2005 SEEBASE



Bouguer gravity anomaly image



First vertical derivative of reduced-to-pole magnetic anomaly image

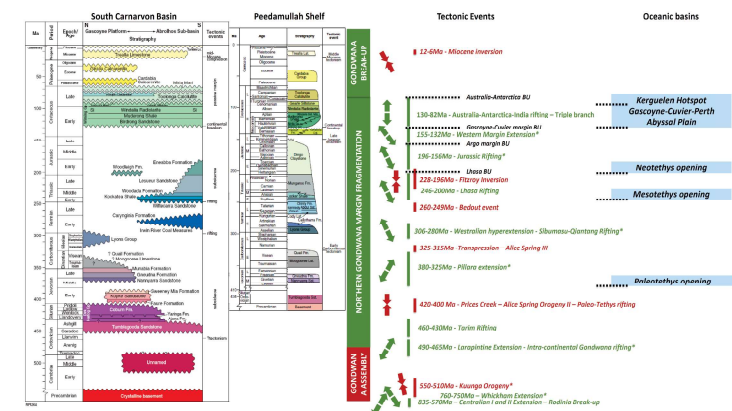
SUMMARY

In 2018, Frogtech Geoscience was commissioned by the Geological Survey of Western Australia (GSWA) to update their SEEBASE (Structurally Enhanced view of Economic BASEment) grid over the Carnarvon Basin within Western Australian State jurisdiction, and to provide interpretations of underlying basement composition. Input data included the latest gravity and aeromagnetic datasets, GSWA seismic interpretations, published cross-sections and drillhole data. The 2018 version has seen significant improvement in resolution compared to the 2005 version. This project was funded by the Exploration Incentive Scheme.

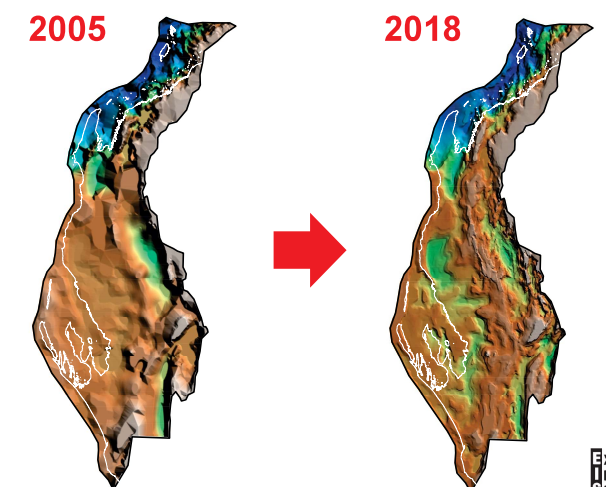
Deliverables include a final Report, which details the methods and datasets used for interpretation of basement depth and lithology, and an ArcGIS project. These are available via the GSWA eBookshop and USB.

Accompanying the report is an ArcGIS project containing:

- SEEBASE grid
- sedimentary thickness grid
- Digital Elevation Model (DEM)
- series of processed and filtered grids of gravity and aeromagnetic data
- crustal thickness grid
- depth to Moho grid
- stretching factor map
- basement thickness grid
- interpreted basement composition map
- interpreted basement terrane map



Above: Tectonic events proposed to have shaped the basin and underlying basement
Right: Comparison of 2005 OZSEEBASE and 2018 Carnarvon SEEBASE depth to basement images



EXPLORATION
INCENTIVE
SCHEME