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ASX/MEDIA RELEASE 26th October 2012

**WHL PRESENTATION AT “EAST AFRICA: PETROLEUM
PROVINCE OF THE 21ST CENTURY” CONFERENCE**
The Geological Society of London

Australian energy company WHL Energy Limited (**ASX: WHN**) (“**WHL Energy**” or “**the Company**”) is pleased to announce it has delivered a technical presentation at the “East Africa: Petroleum Province of the 21st Century” Conference.

The presentation to the above industry conference run by the prestigious Geological Society of London was given by Dr Paul Robinson, Geological Advisor, for WHL Energy, on 26 October 2012.

The presentation is part of WHL Energy’s campaign to present major advances in developing the prospectivity and exploration potential of the Seychelles to the industry. The presentation titled “*Seychelles Micro-Continent; An Integration of Regional Tectonics and Stratigraphy to Unlock the Hydrocarbon Potential*” is attached and will be available on WHL Energy website.

Ends

FURTHER INFORMATION

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The summary information on the oil and gas projects in this report has been prepared by WHL Energy Limited full time Exploration Manager Mr Matt Fittall. He is a Geologist [BSc(hons) Geology] of more than 28 years, practising in Petroleum Geology. Mr Fittall has consented in writing to the inclusion of the information in the form and context in which it appears.

About WHL Energy Limited

ASX-listed WHL Energy Ltd (ASX: WHN) is an oil and gas exploration Company focussed on East Africa.

The Company’s “flagship” project is its 17,345 km² exploration area offshore Seychelles, owned 100% by WHL Energy. A highly material exploration portfolio and new exploration concepts are being matured in the acreage based on new seismic data and an exploration drilling program is expected in the second half of 2013.

WHL Energy also holds 100% equity in Exploration Permit VIC/P67 in the offshore Otway Basin, approximately 200 km WSW of Melbourne off the Victorian coastline. VIC/P67 contains the undeveloped La Bella gas field in proximity to the Victorian gas market, and several nearby exploration prospects.

The Company in addition holds 33.33% equity in exploration permit WA-460-P, in the offshore Southern Carnarvon Basin, which contains an extension of the very large Palta Prospect. A Shell led Joint Venture has commenced drilling the Palta-1 well in the adjacent block, with an expected completion in late 2012.

The Company is also actively investigating growth opportunities in the wider East African region.

Seychelles Micro-Continent

*An Integration of
Regional Tectonics and Stratigraphy to
Unlock the Hydrocarbon Potential*

Paul Robinson, Kim Morrison & Matt Fittall

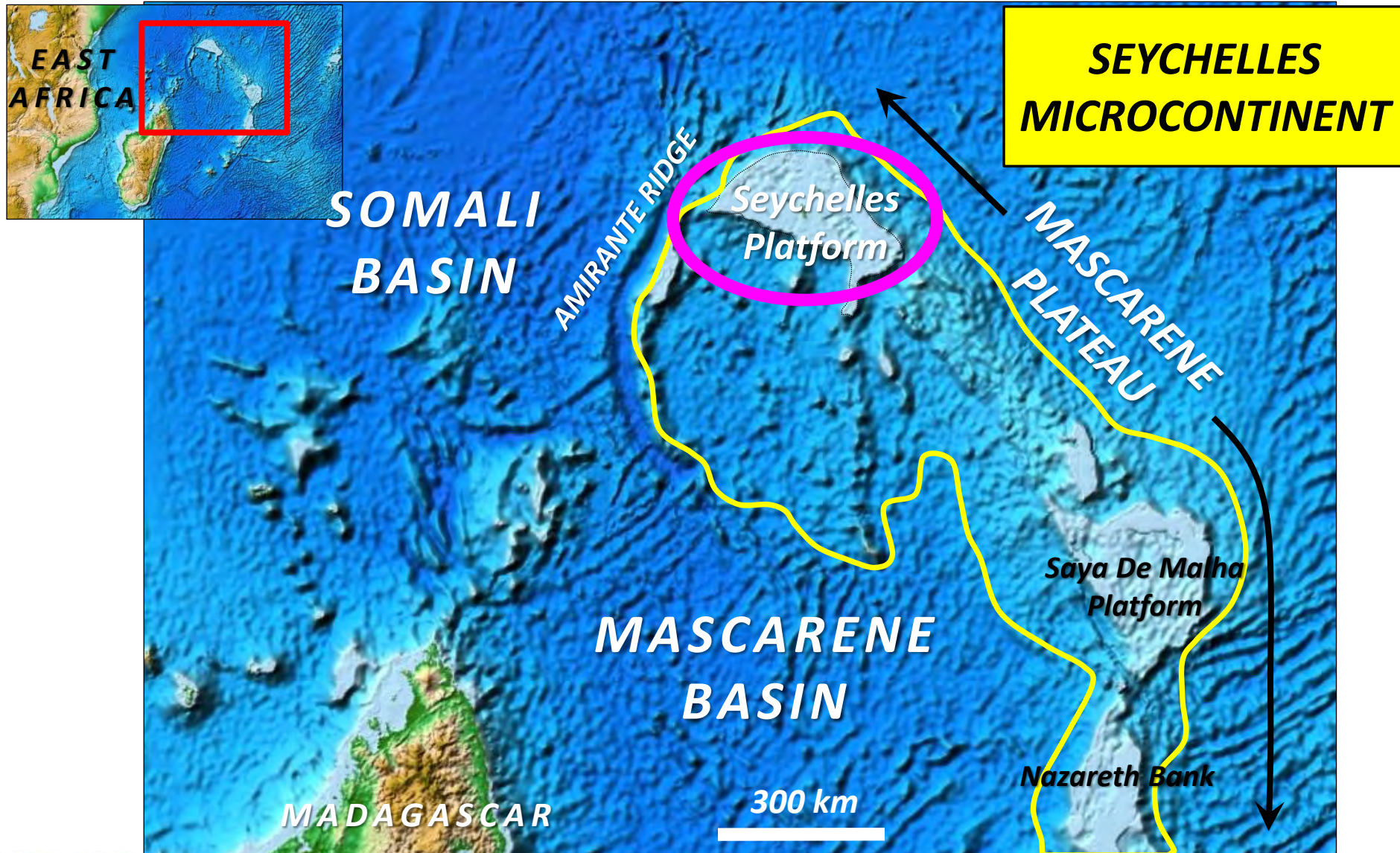


Objective and Outline

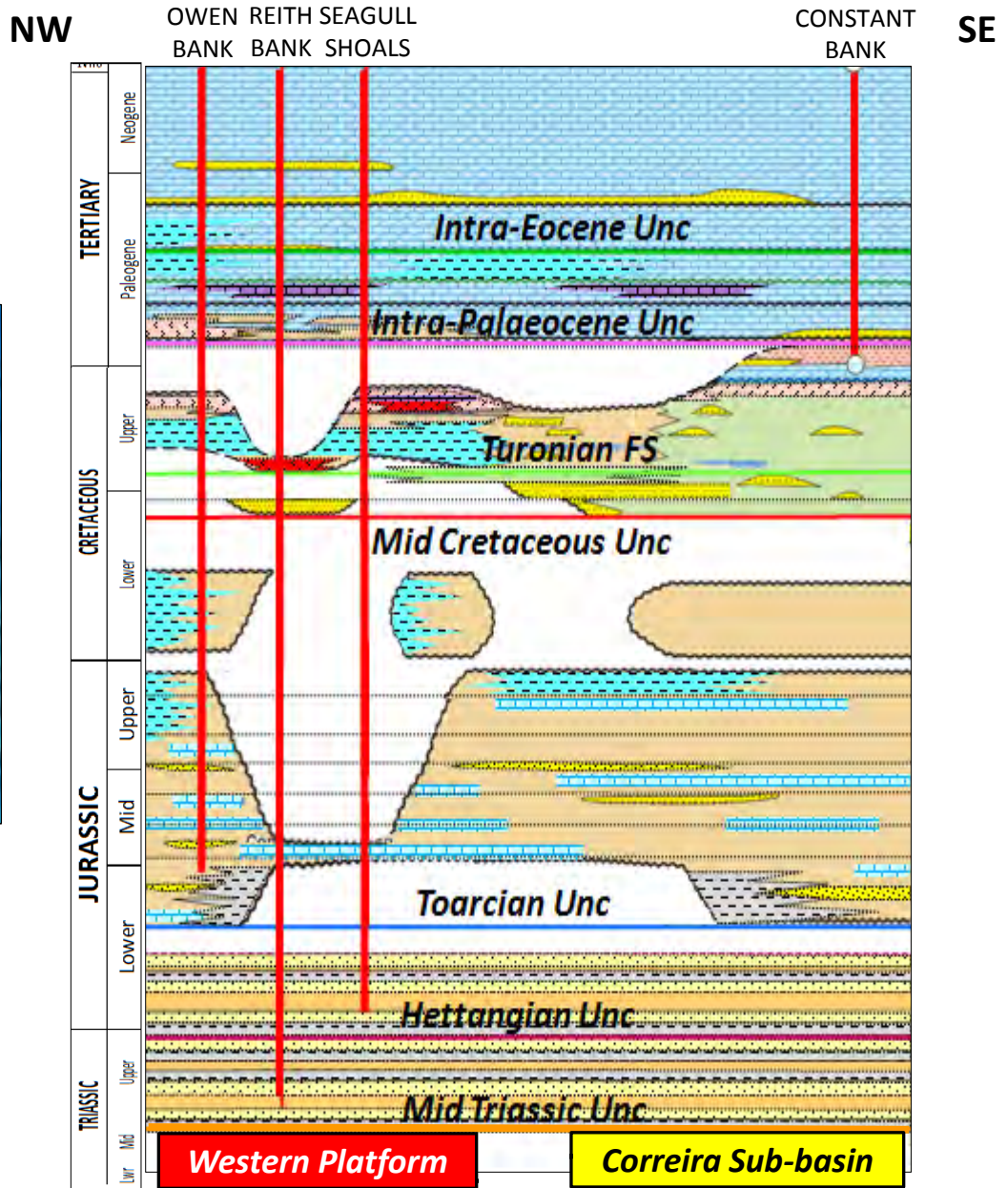
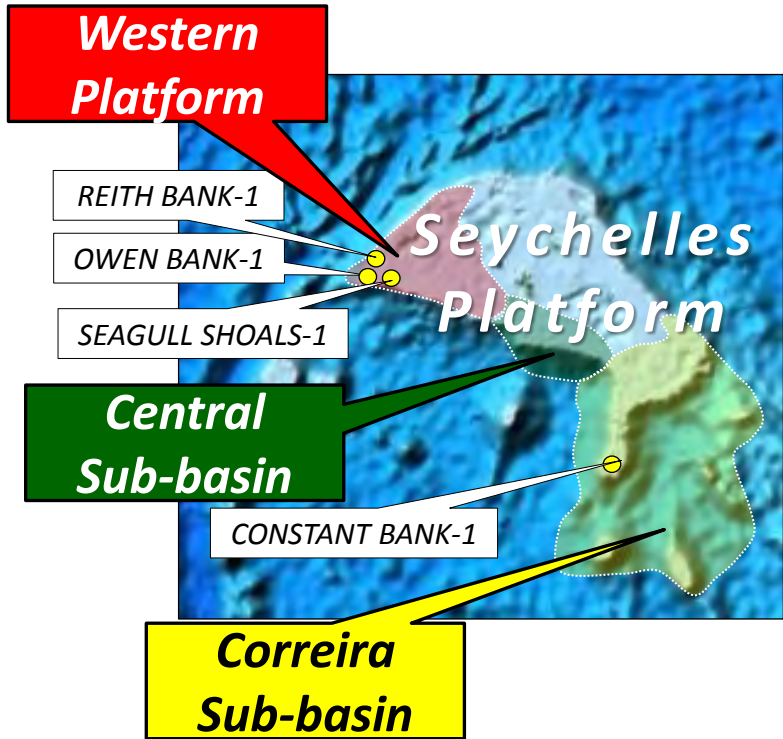
Using a regional tectonic and stratigraphic framework, calibrate the well and seismic data across the Seychelles Platform in order to better understand the geology and to identify active petroleum systems

- Plate Reconstructions***
- Well Sequence Identification***
- Well To Seismic Calibration***
- Calibration Against Regional Analogues***
- Seismic Sequence Interpretation***
- Depositional Sequence Analysis***
- Assessment of Petroleum Potential***

Elements of the Seychelles Micro-Continent



Seychelles Stratigraphy

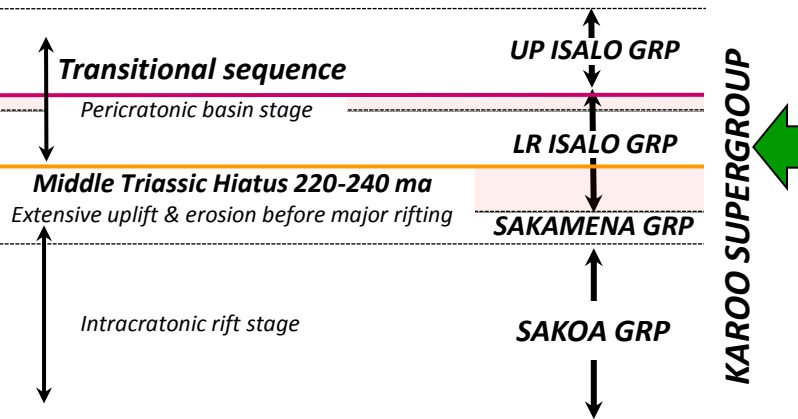
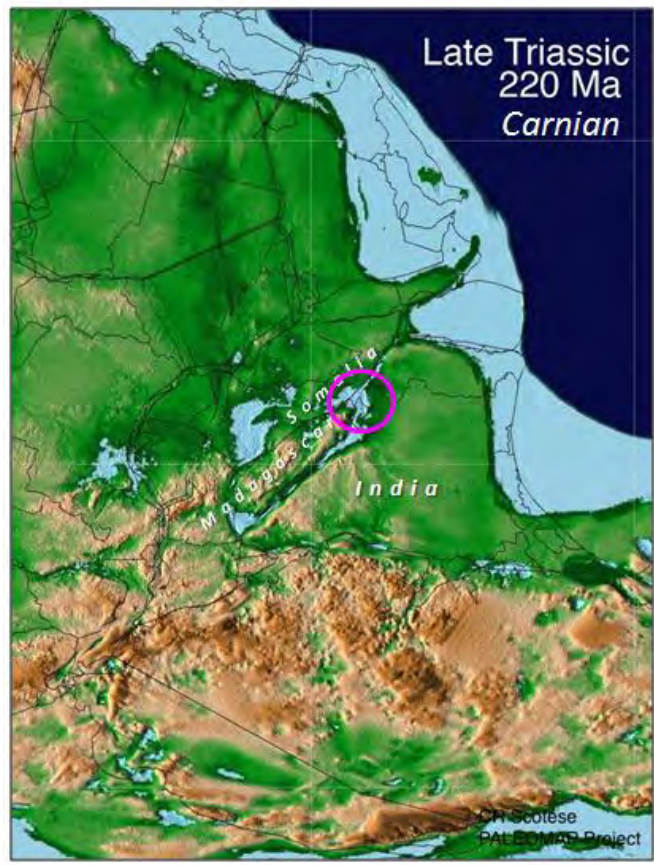
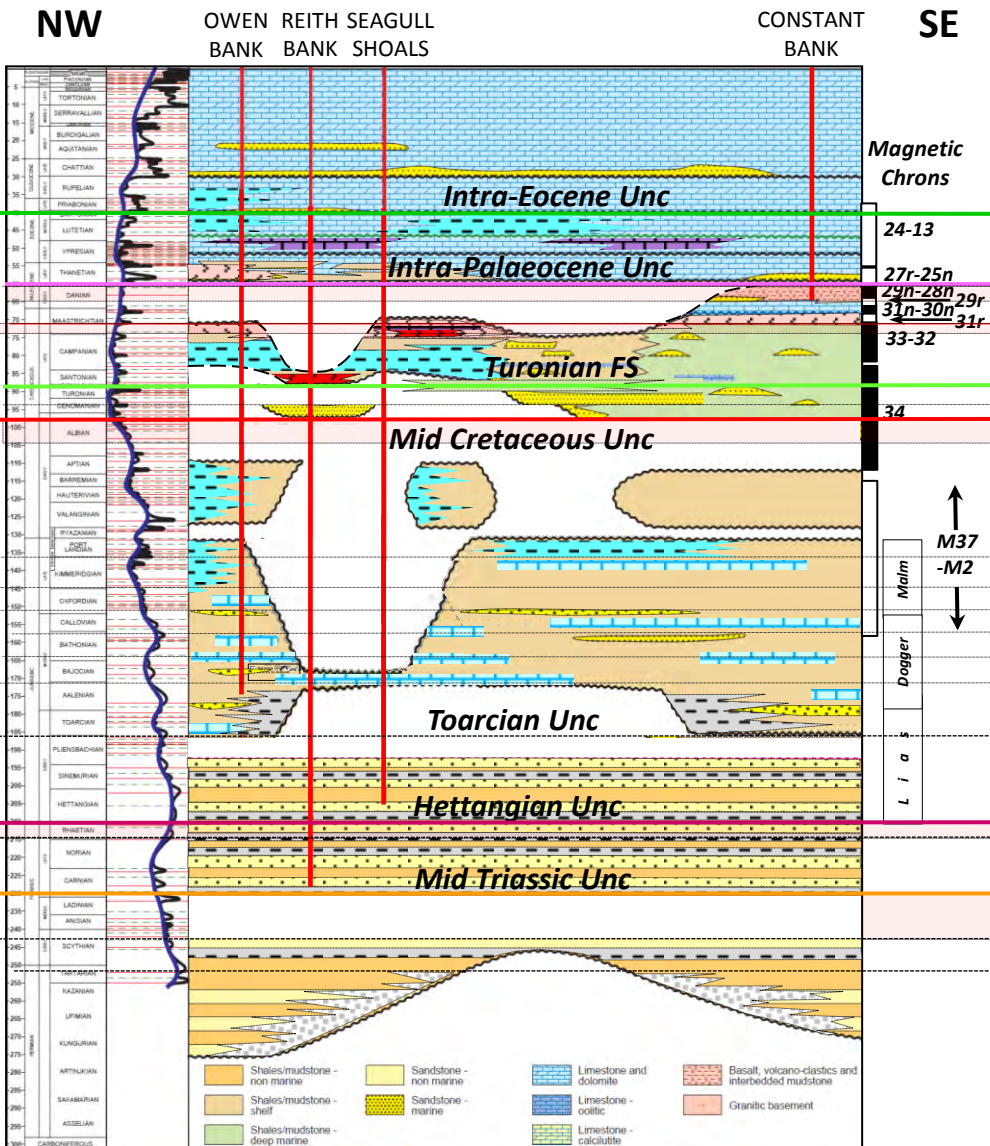


Seychelles Platform

PLATE RECONSTRUCTIONS

Karoo Group – Late Triassic

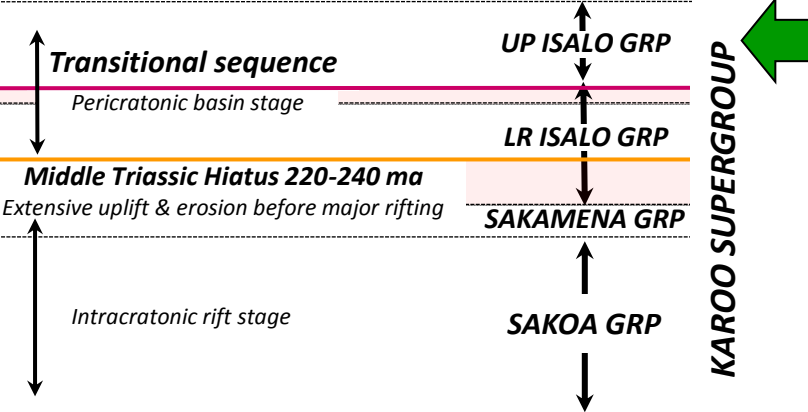
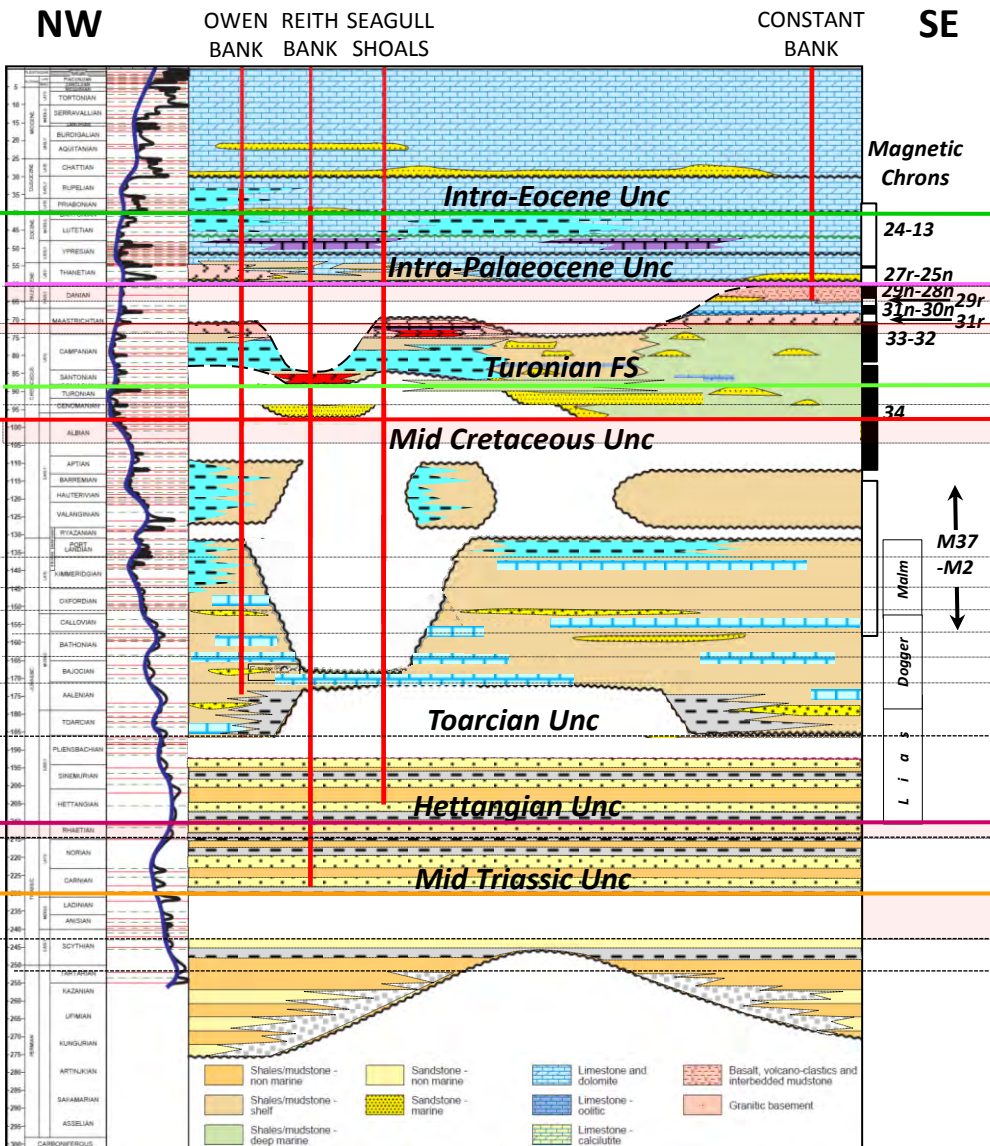
Initial Isalo deposition



Map by C R Scotese "Plate Tectonic and Paleogeographic reconstructions of the Western Indian Ocean PALEOMAP Project"

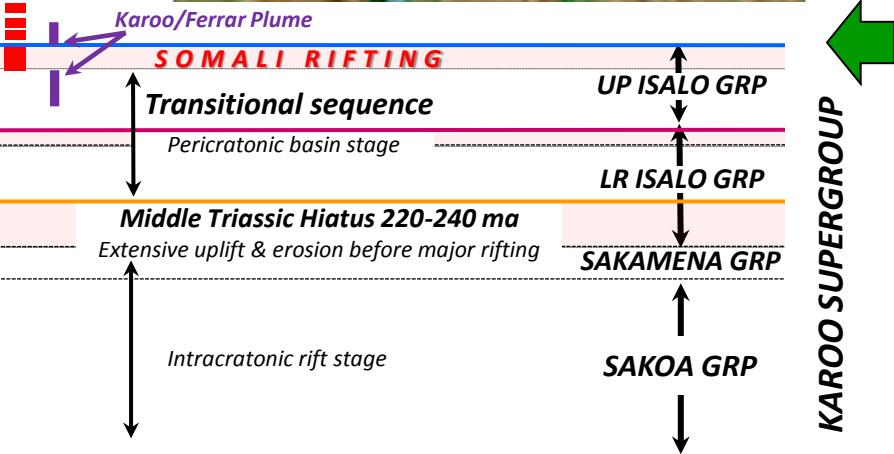
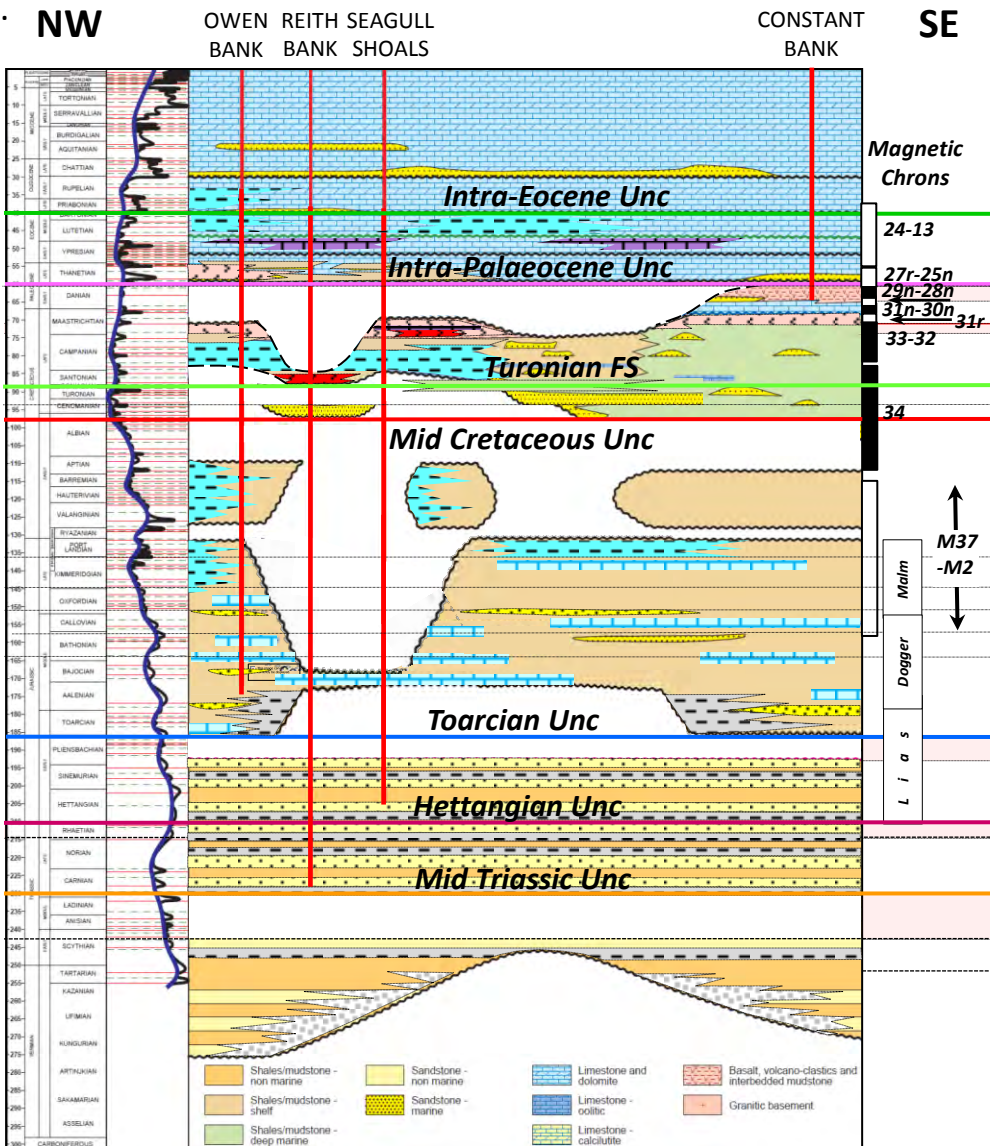
Karoo Group – Early Jurassic

Continued Isalo deposition; possible mixed shoreline & fluvial conditions



Somali Rift – Early Jurassic

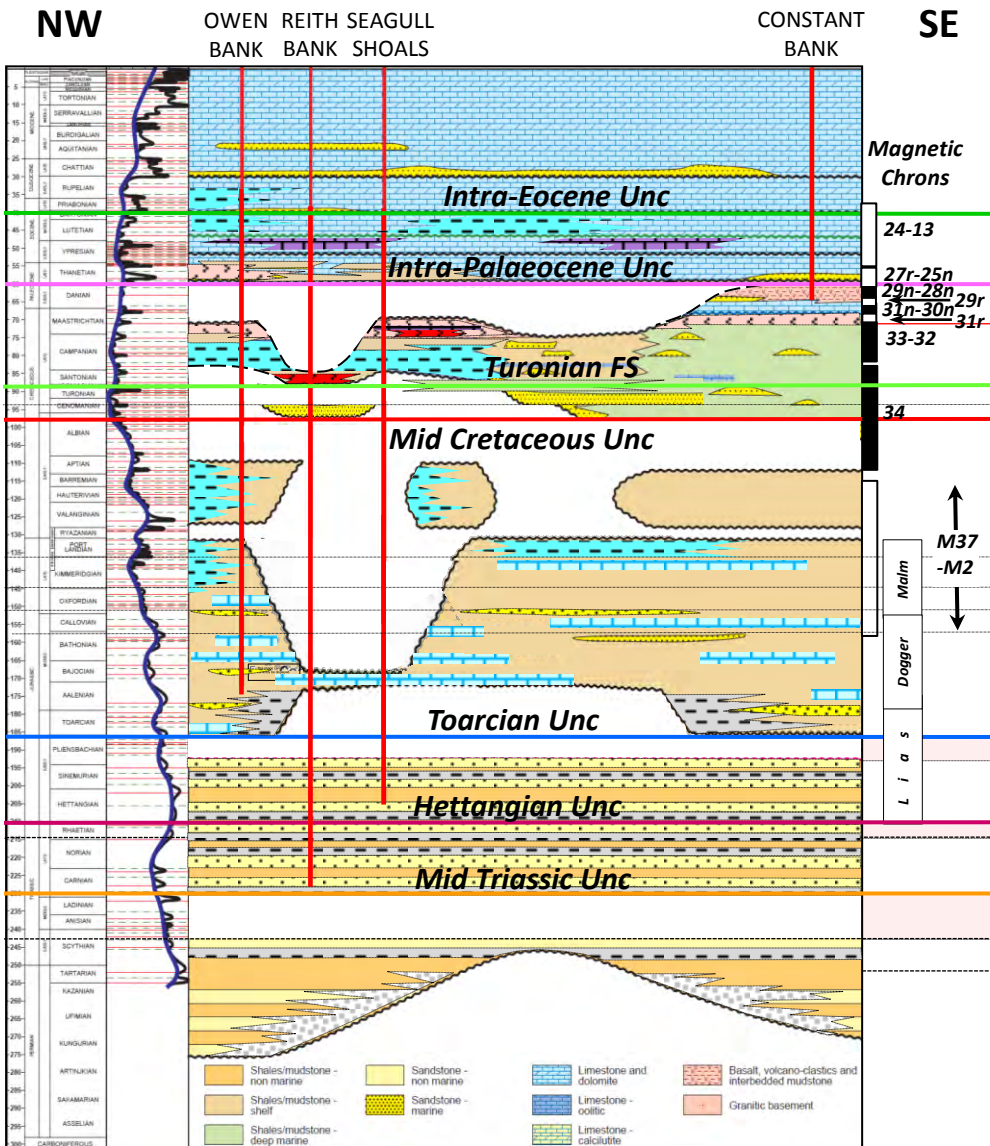
Varying intensity of rifting & erosion on the Seychelles Platform



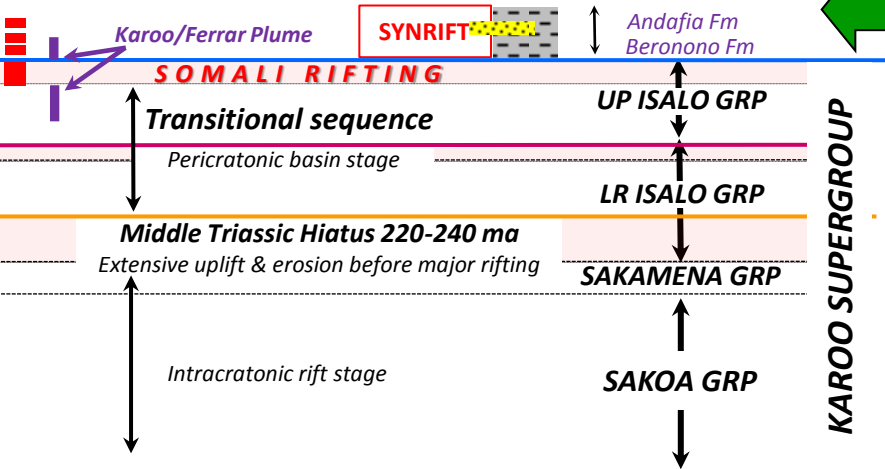
Map by C R Scotese "Plate Tectonic and Paleogeographic reconstructions of the Western Indian Ocean PALEOMAP Project"

Somali Synrift – Middle Jurassic

Possible good source rock (synrift) deposition

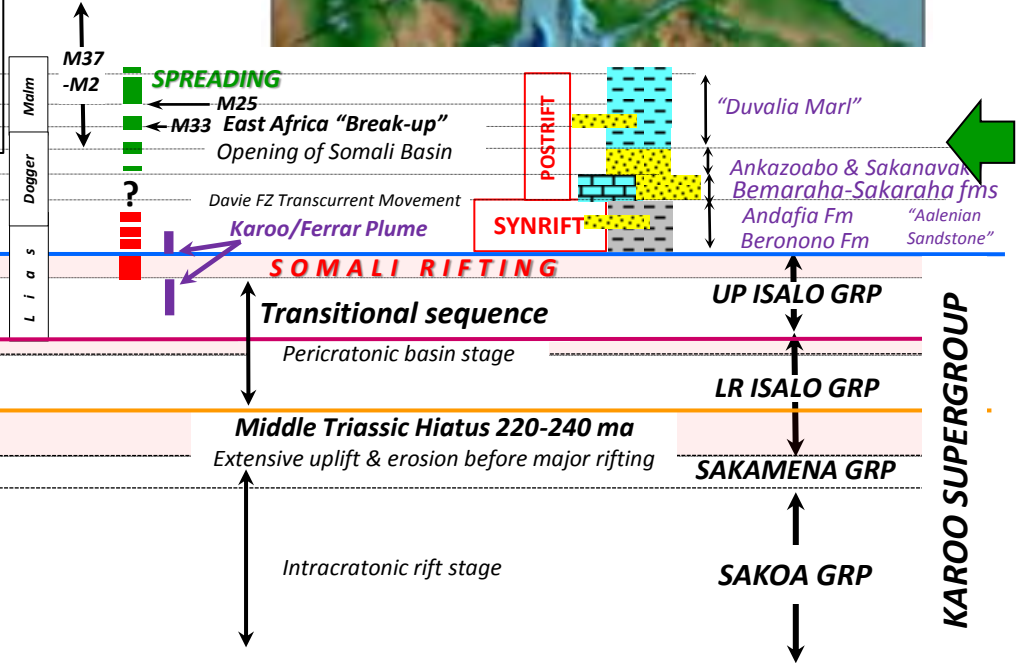
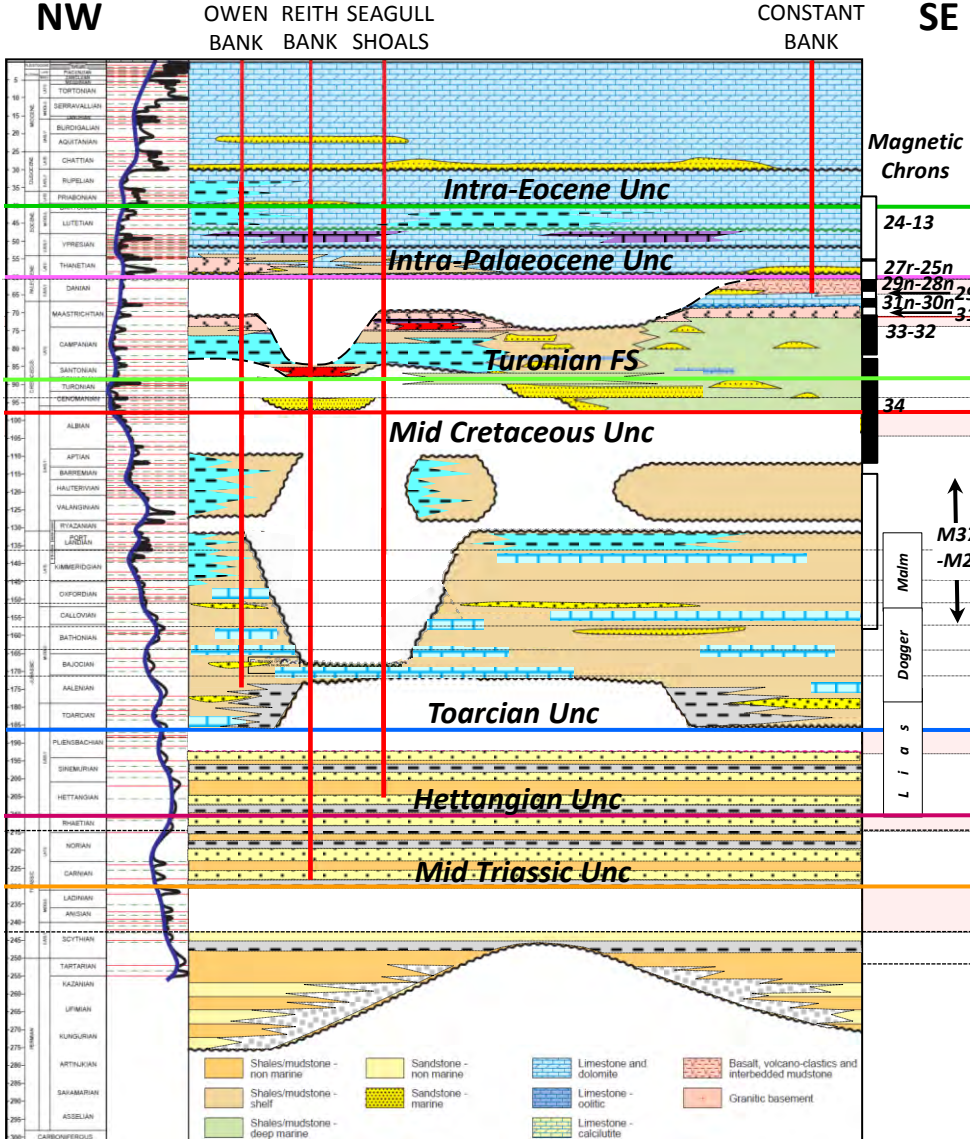


Depositional analogues in west Madagascar basins



Somali Postrift – Late Jurassic

Continued postrift deposition; shelf conditions



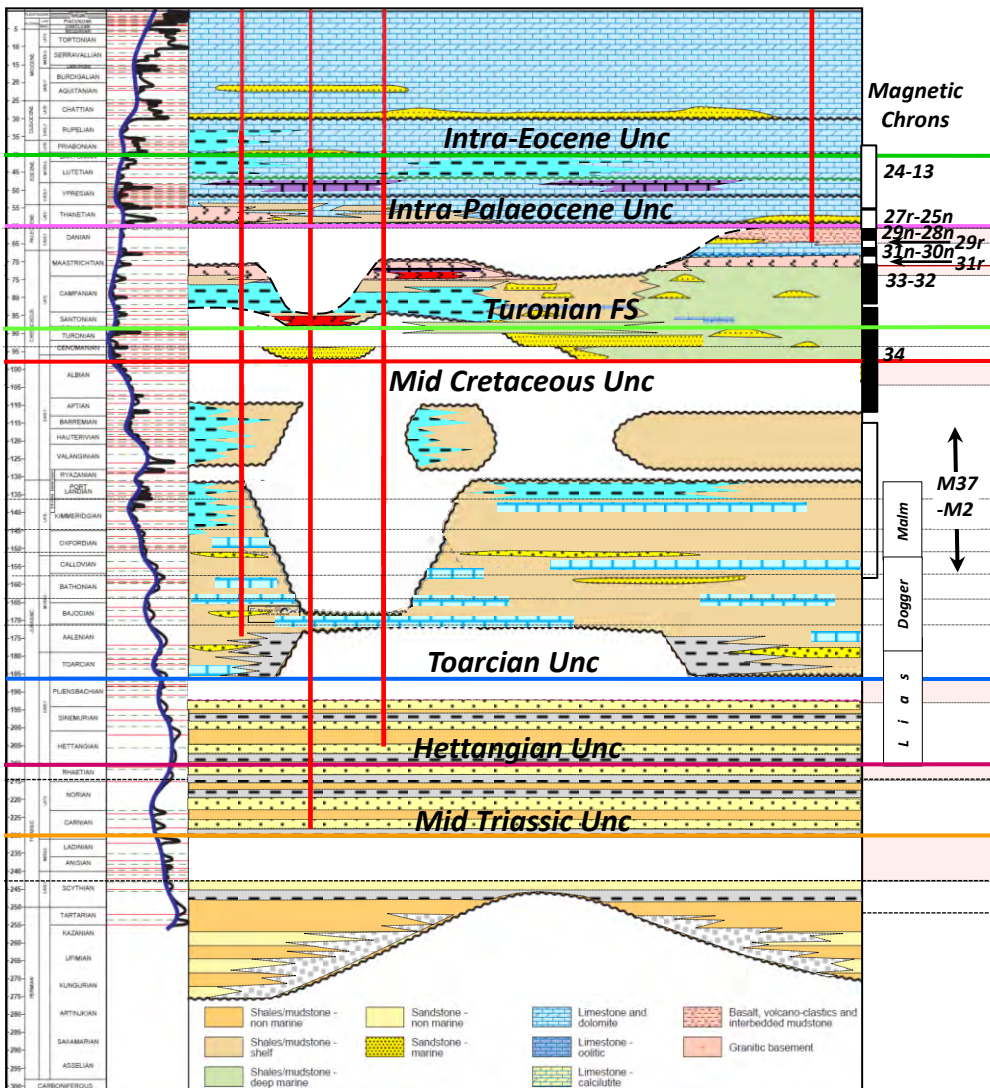
Map by C R Scotese "Plate Tectonic and Paleogeographic reconstructions of the Western Indian Ocean PALEOMAP Project"

Somali Latest Postrift – Early Cretaceous

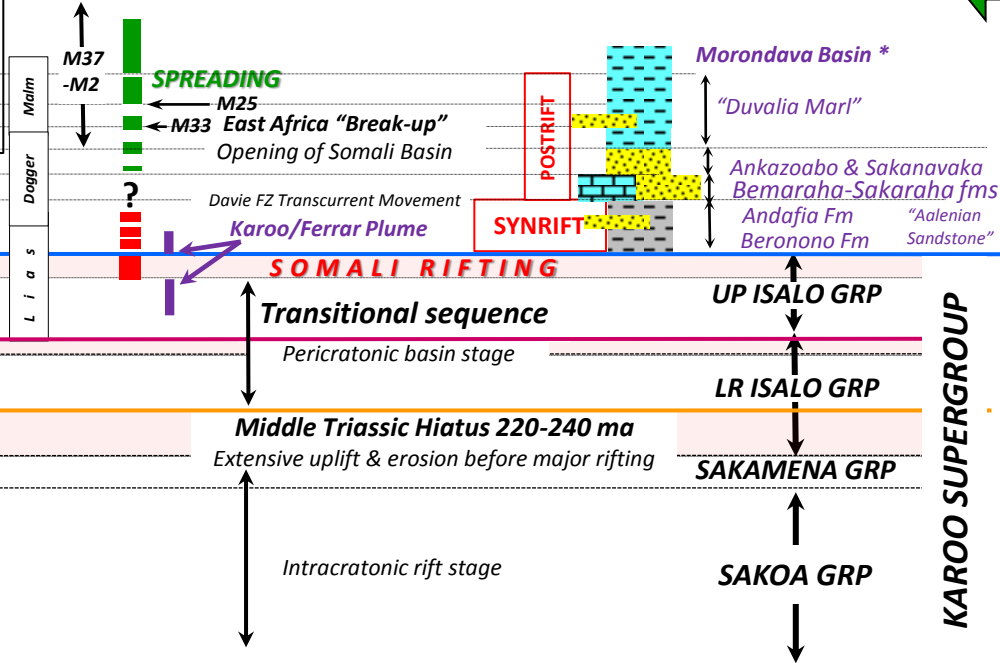
Slowing sedimentation; possible hiatus; as precursor to Mascarene rifting



NW OWEN REITH SEAGULL BANK BANK SHOALS CONSTANT BANK SE



Magnetic Chrons
24-13
27r-25n
29n-28n
31n-30n
29r
31r
33-32
34

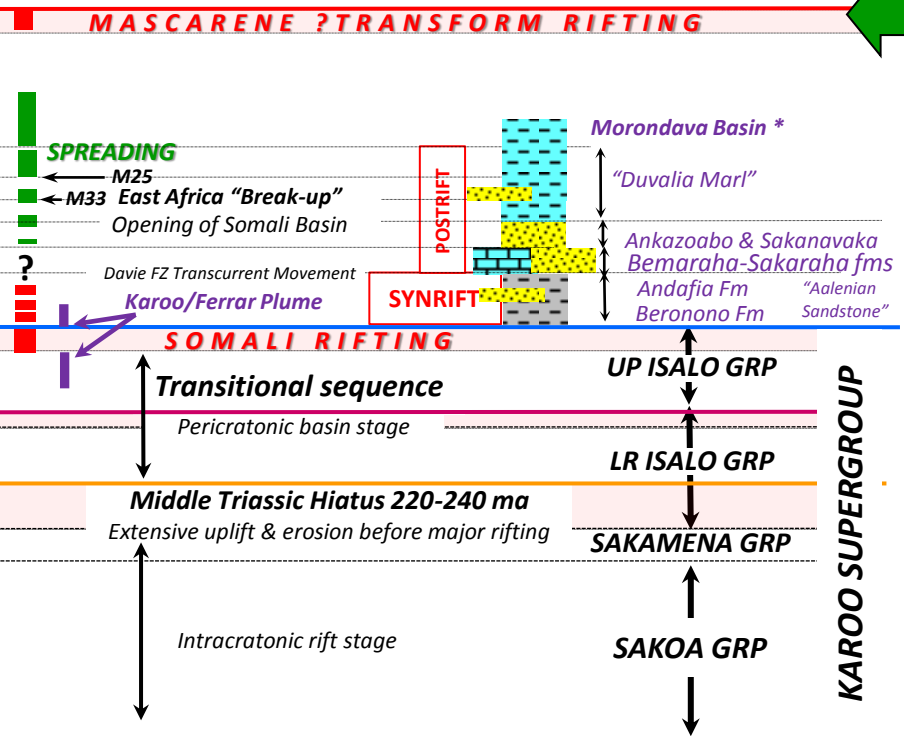
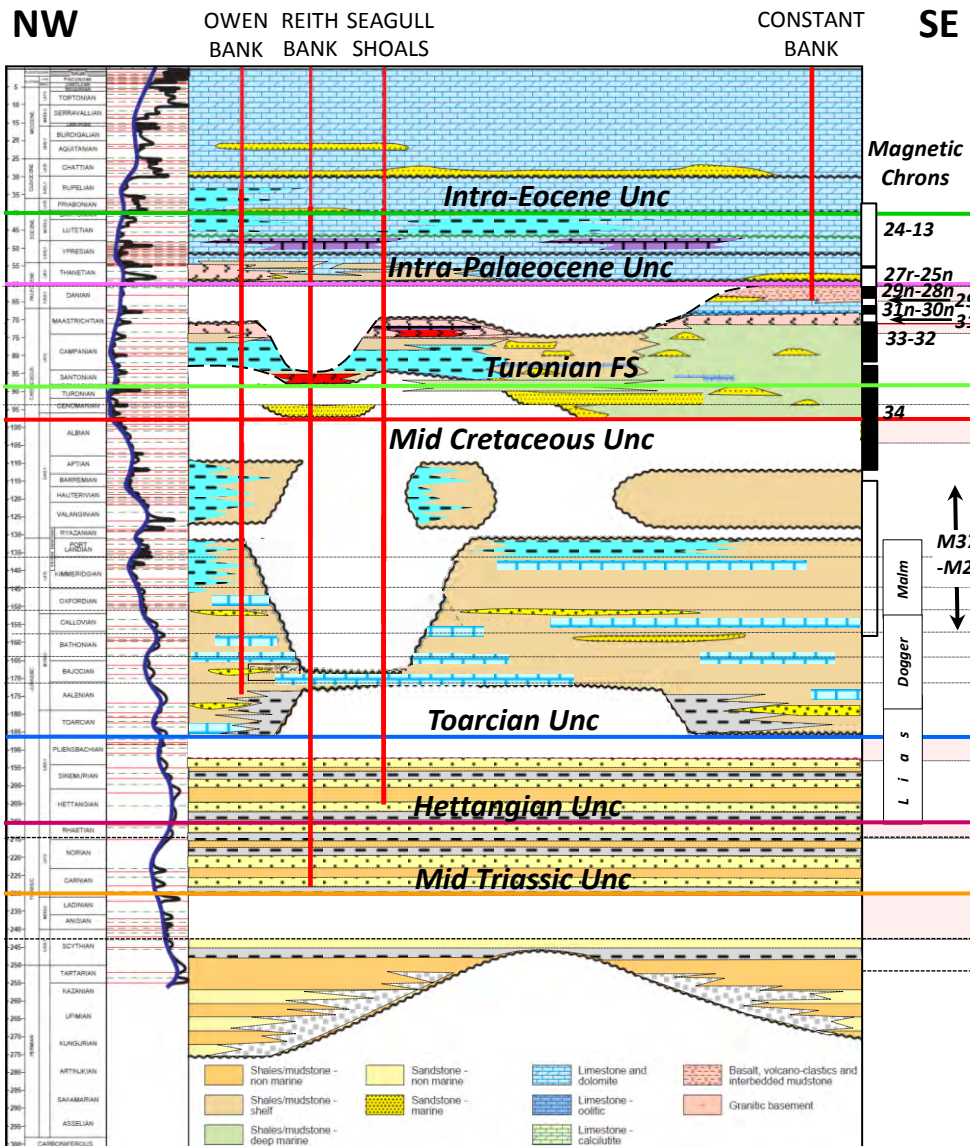


Map by C R Scotese "Plate Tectonic and Paleogeographic reconstructions of the Western Indian Ocean PALEOMAP Project"

*Geiger & Schweigert 2005 Morondava

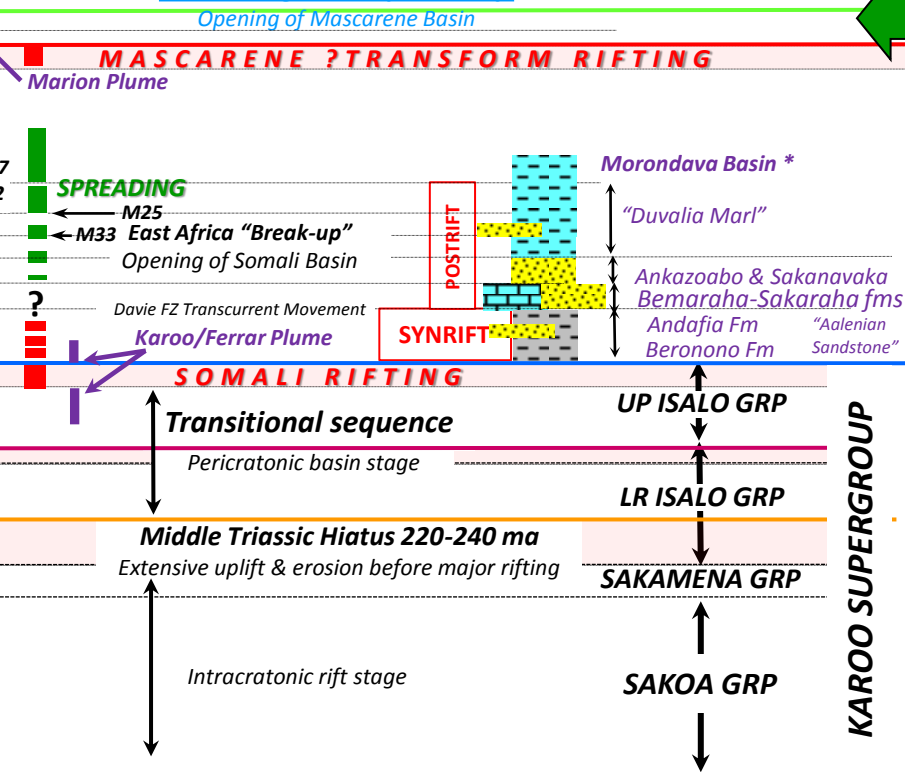
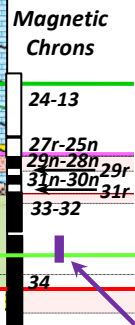
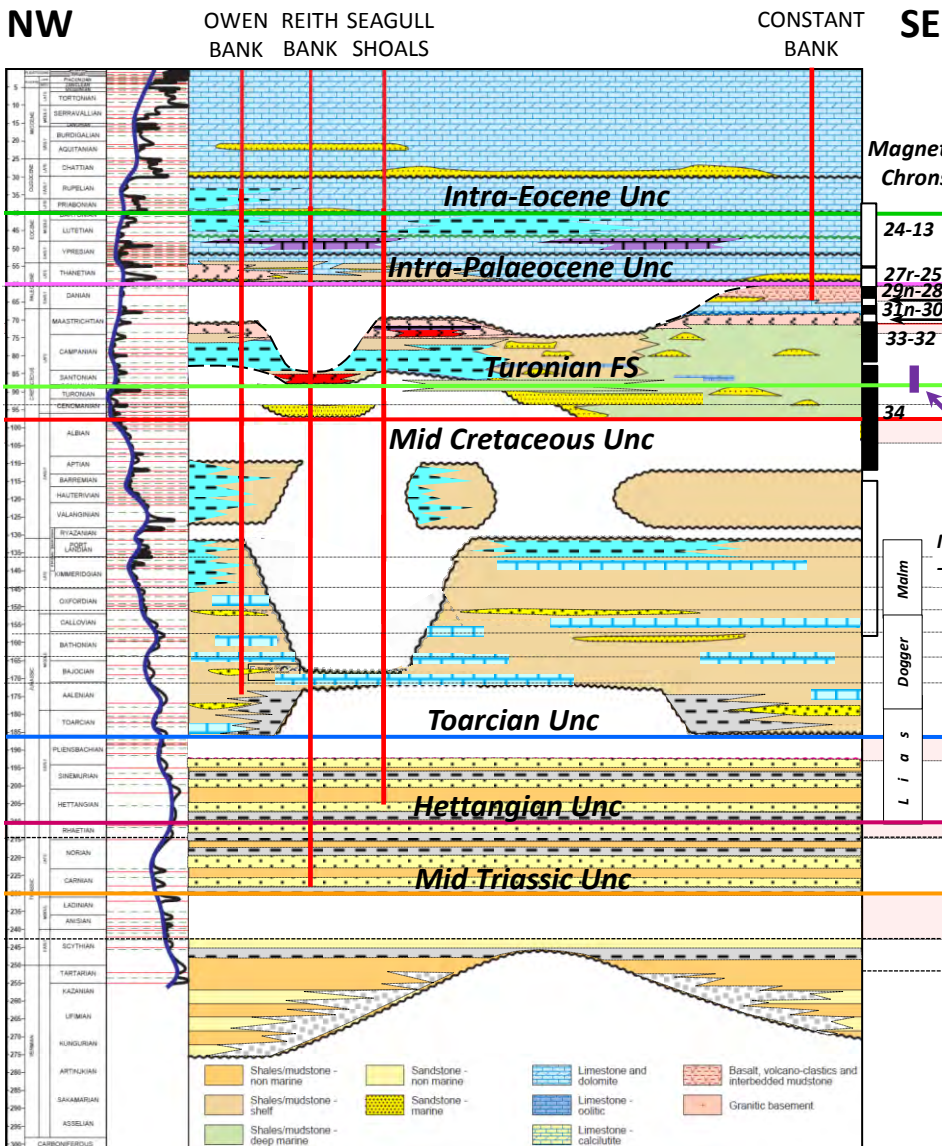
Mascarene Rifting – Latest Early Cretaceous

Major structuring; widespread “rift-shoulder” uplift and erosion



Mascarene Early Postrift – Late Cretaceous

Synrift fill ; development of & deposition in “eastern basins”;
 Marion flood basalts in E Madagascar

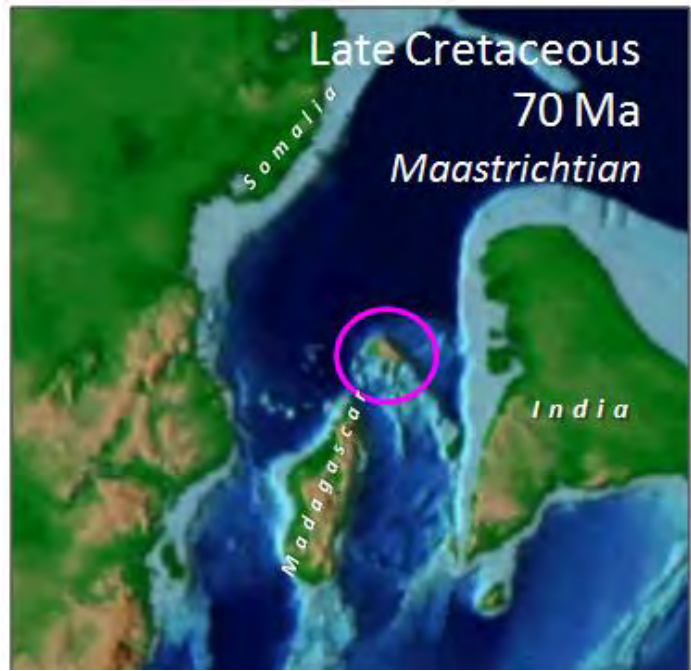
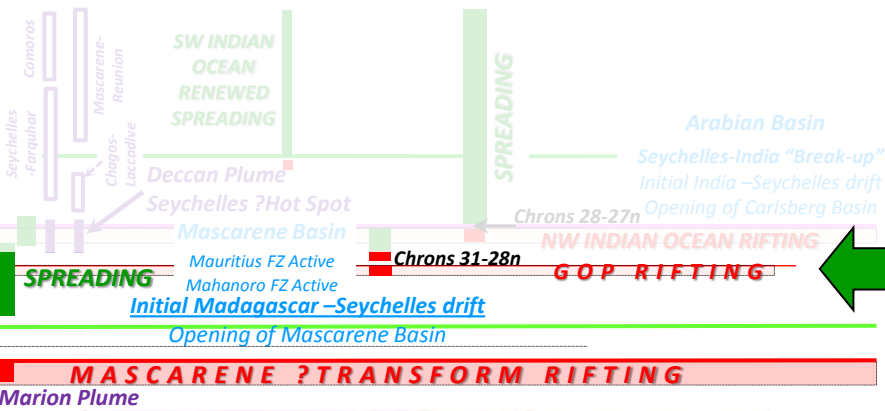
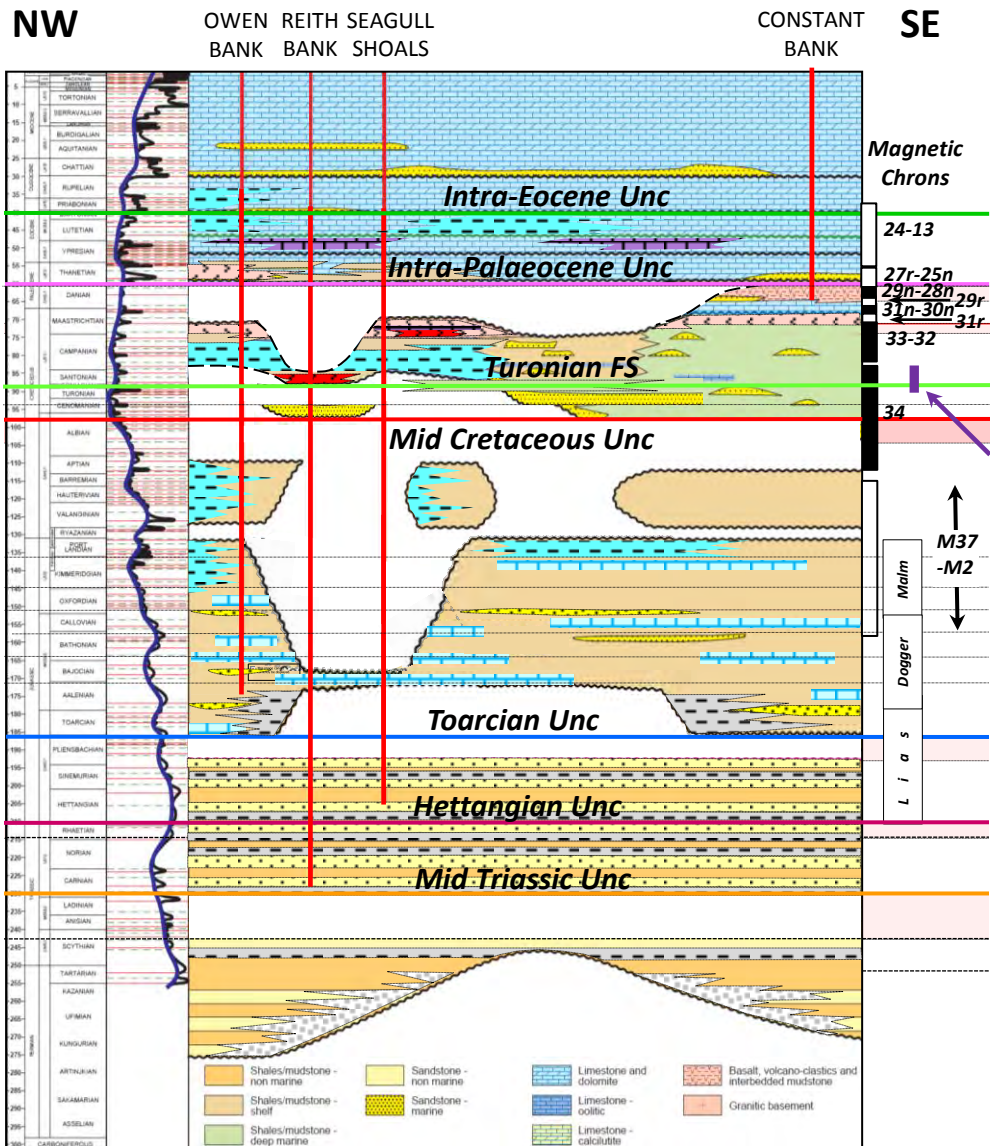


Map by C R Scotese “Plate Tectonic and Paleogeographic reconstructions of the Western Indian Ocean PALEOMAP Project

*Geiger & Schweigert 2005 Morondava

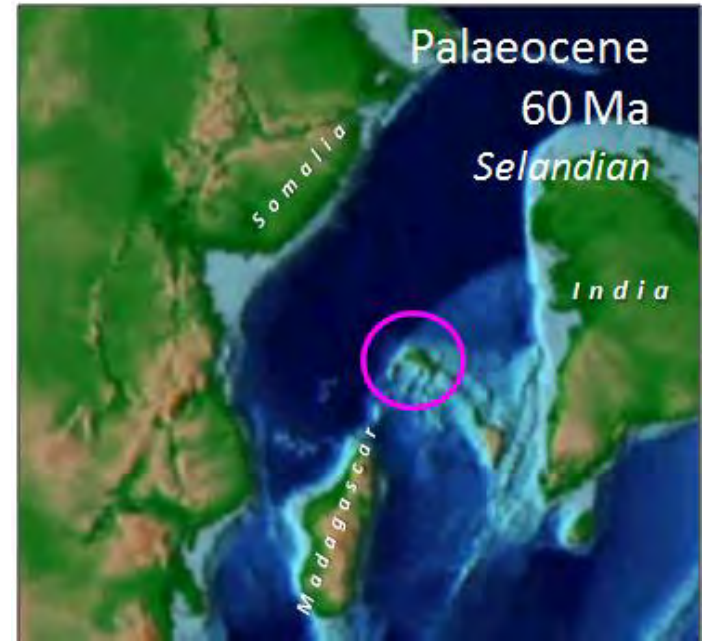
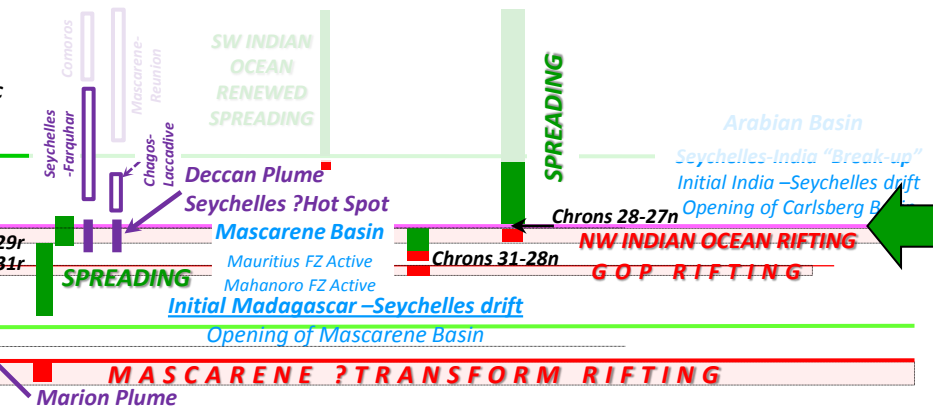
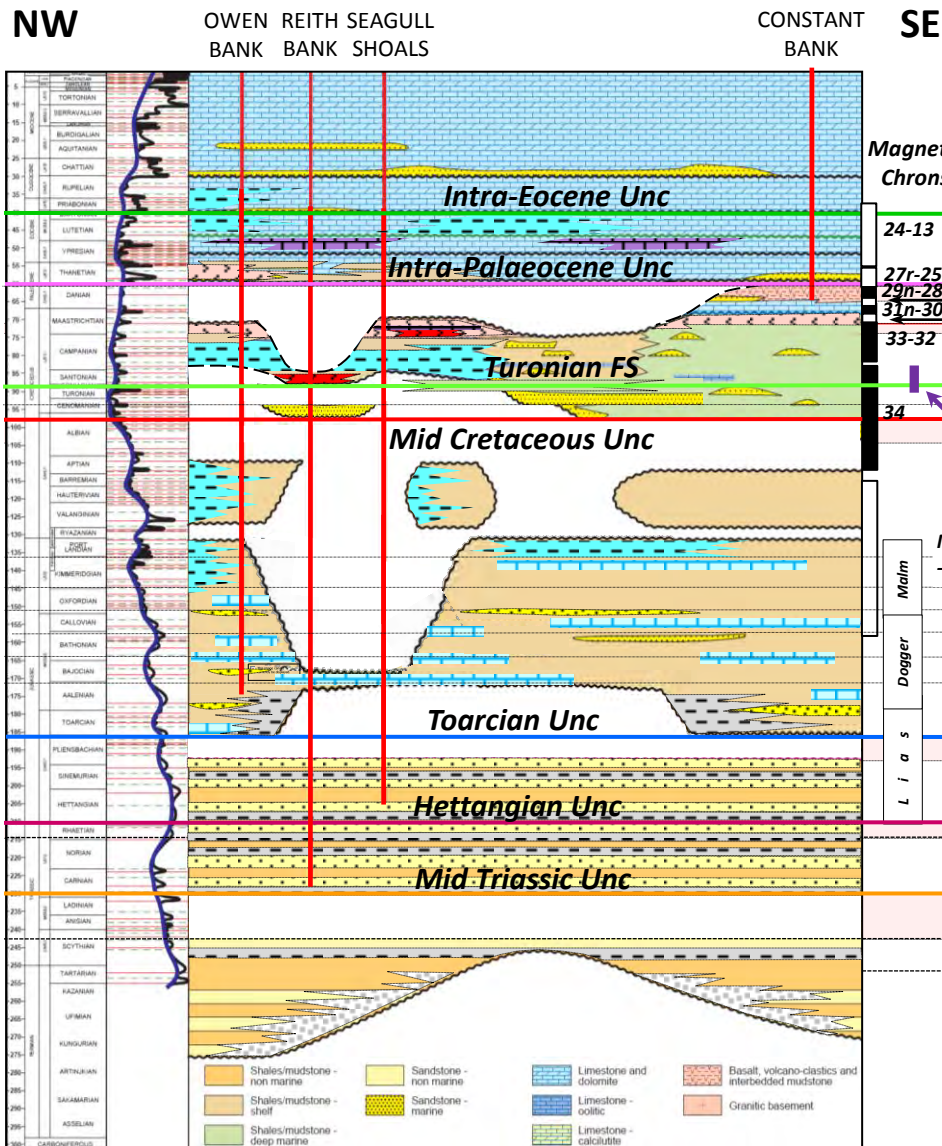
Mascarene Latest Postrift – Late Cretaceous

Marine conditions; volcanics possibly due to Gop rifting in the NE



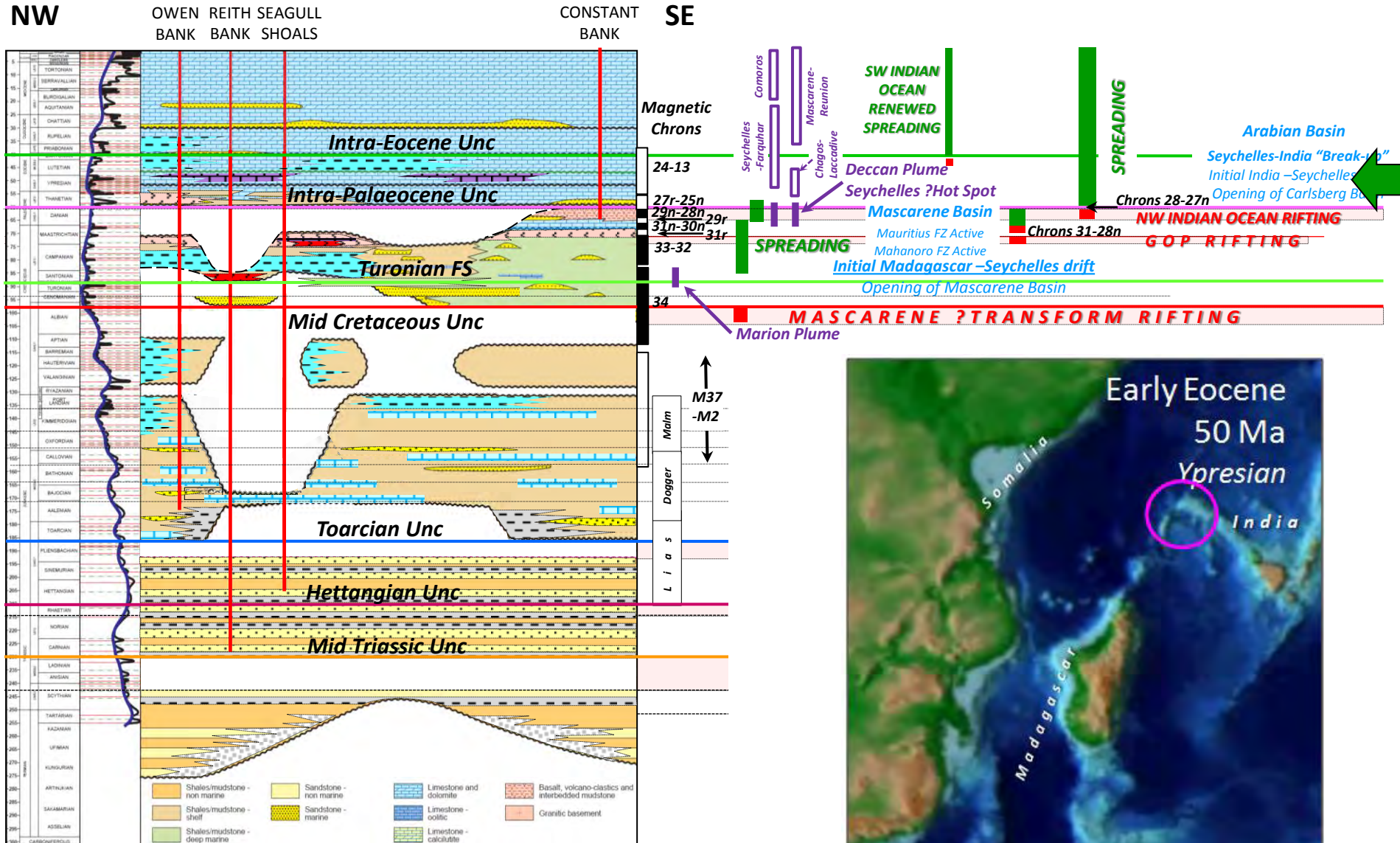
NW Indian Ocean Rift – Middle Palaeocene

NWIO rifting in north & east; structuring & erosion; Deccan flood basalts & ?Seychelles magmatic/volcanics



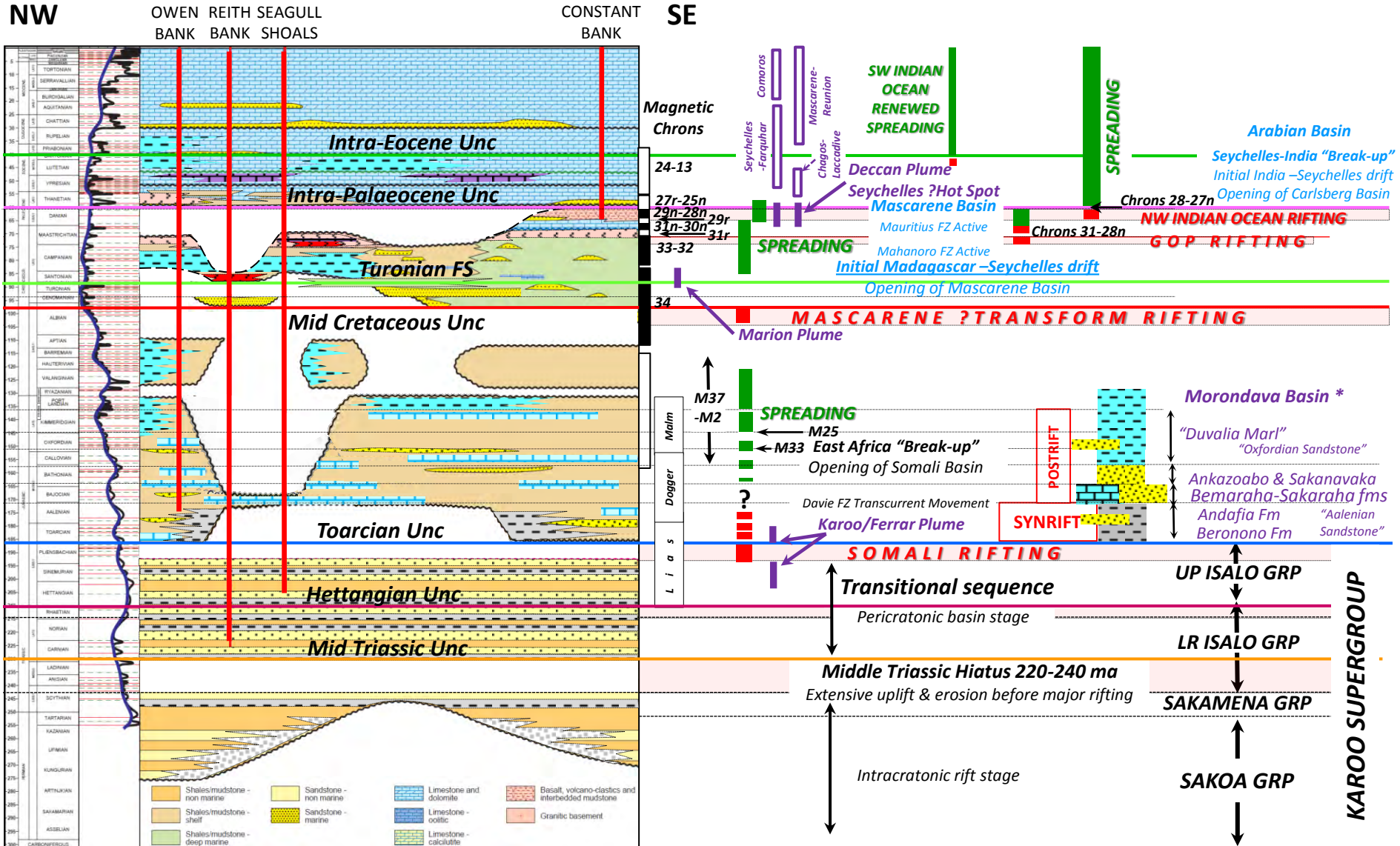
NW Indian Ocean Spreading – Early Eocene

Spreading to the northeast continued; mid ocean isolation; carbonate platform conditions persisted to present day

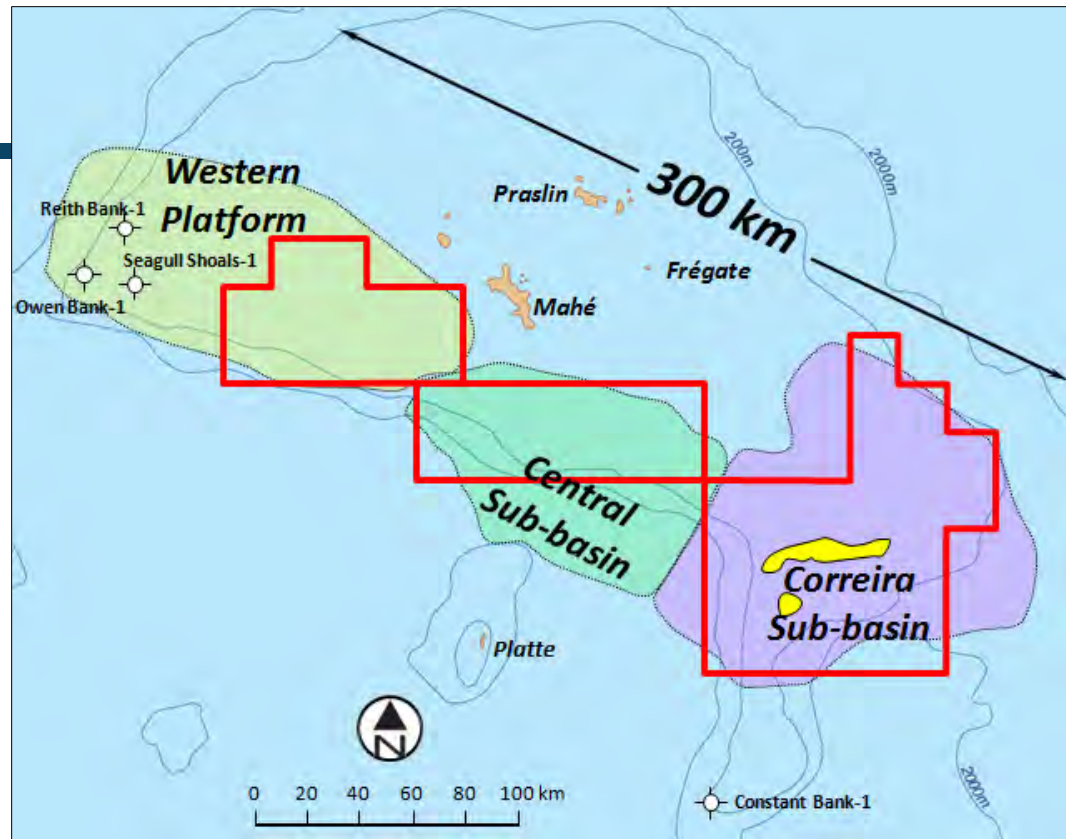
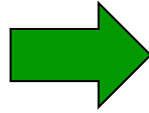


Map by C R Scotese "Plate Tectonic and Paleogeographic reconstructions of the Western Indian Ocean PALEOMAP Project

Regional Context Seychelles Stratigraphy



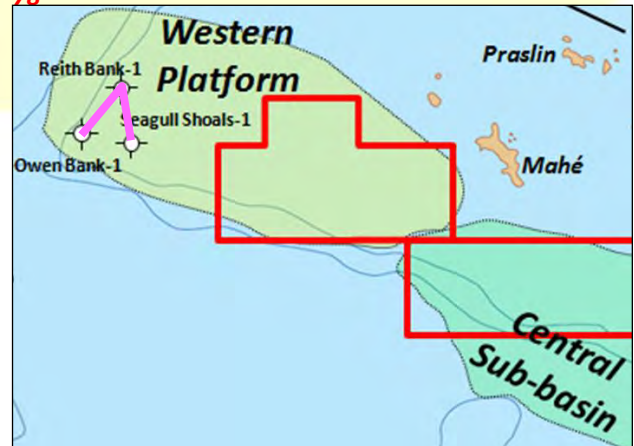
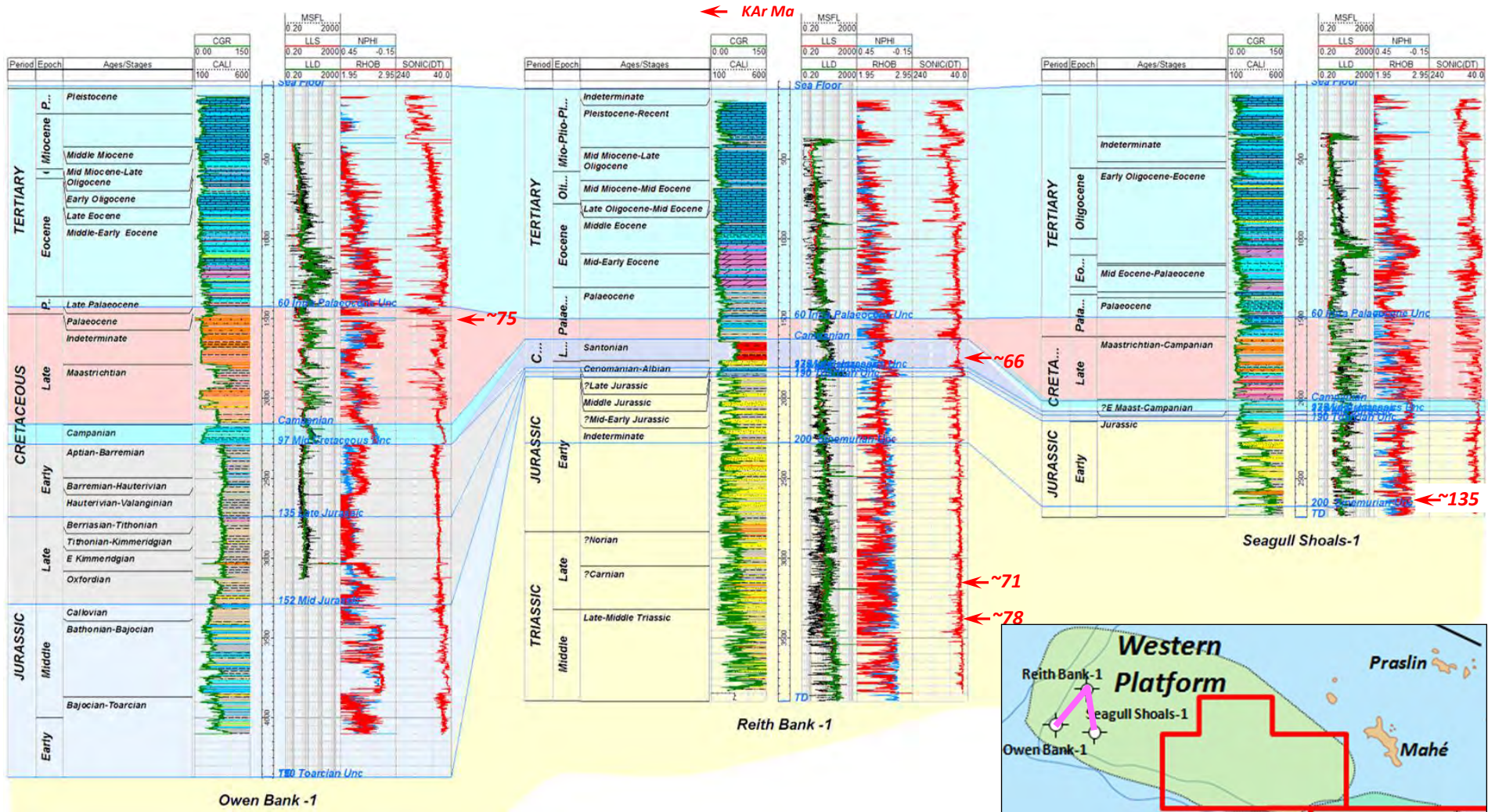
*Geiger & Schweigert 2005 Morondava



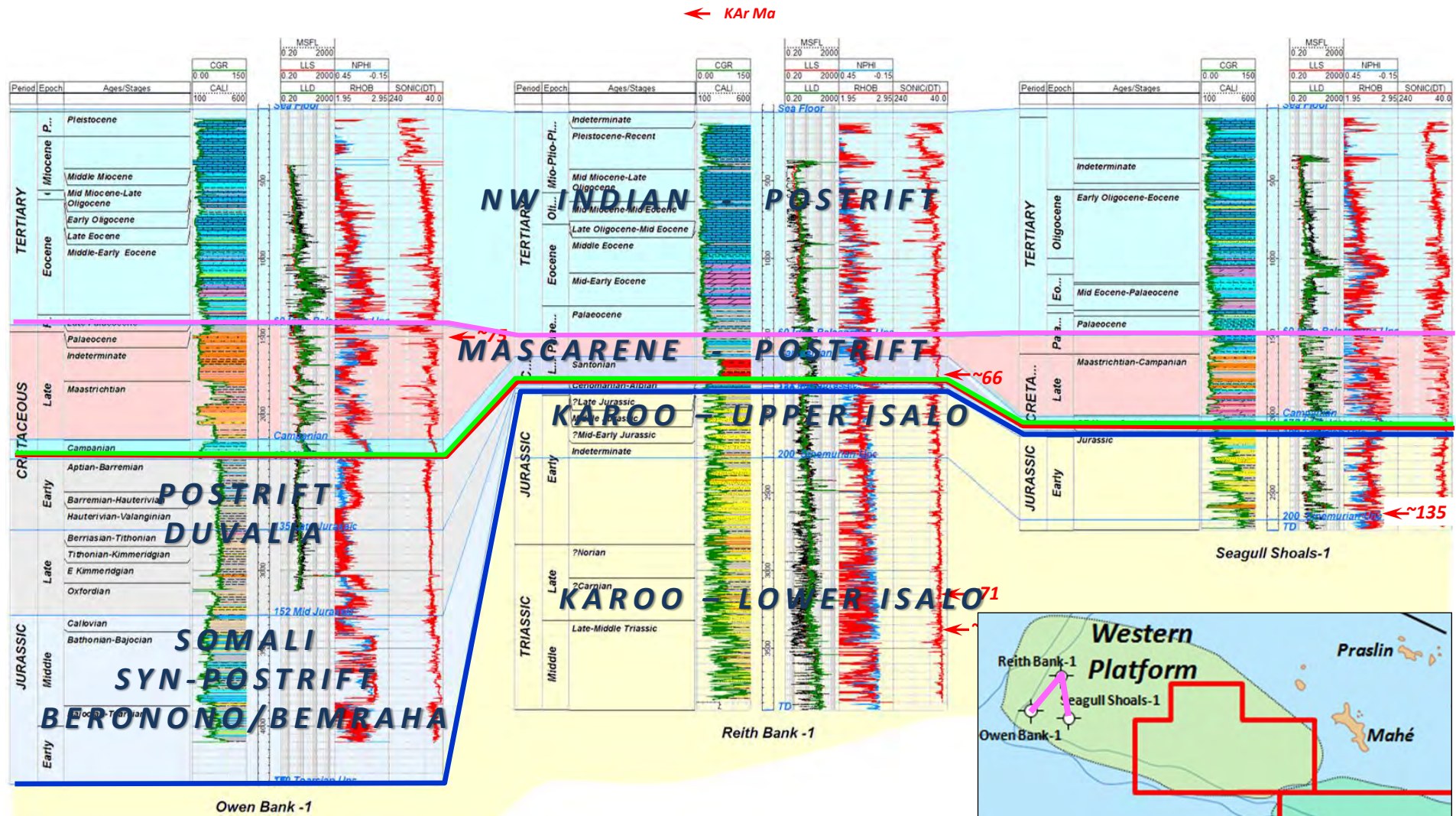
Seychelles Platform

WELL SEQUENCE IDENTIFICATION

Seychelles Well Stratigraphy – Main Age Intervals



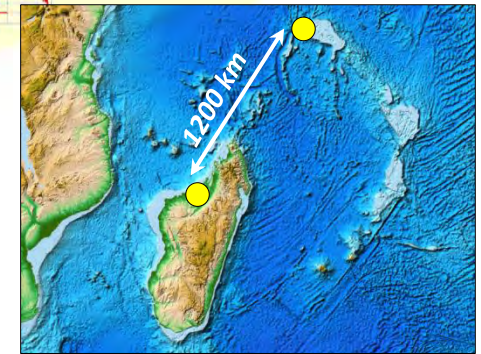
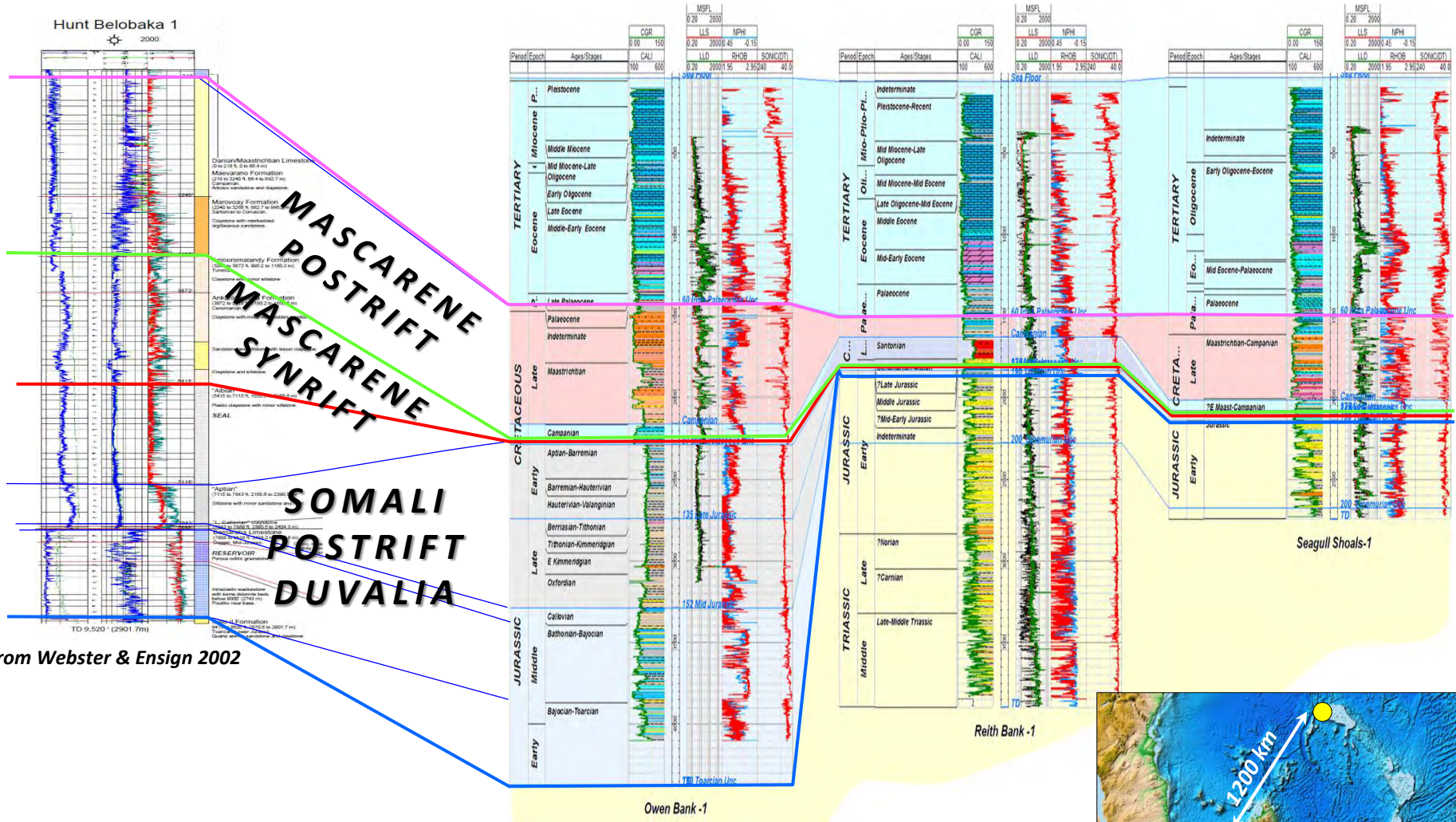
Seychelles Well Stratigraphy – Formations & Tectonic Nomenclature



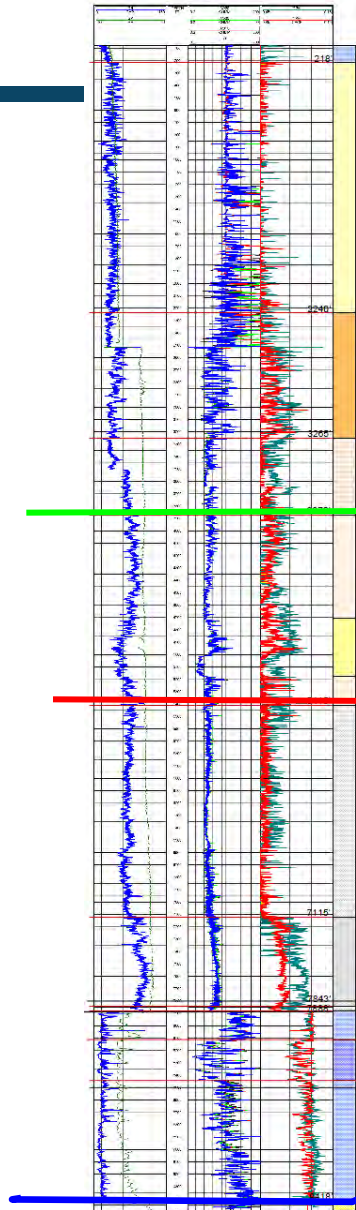
Seychelles Platform

CALIBRATION AGAINST REGIONAL ANALOGUES

Seychelles Well Stratigraphy – Ties to Madagascar



Seismic-to-Well Ties Onshore Majunga Basin NW Madagascar



**MASCARENE
POSTRIFT EQUIVALENT**

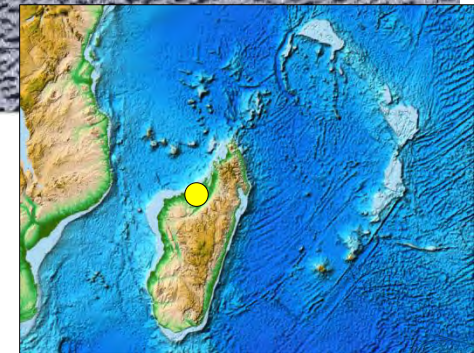
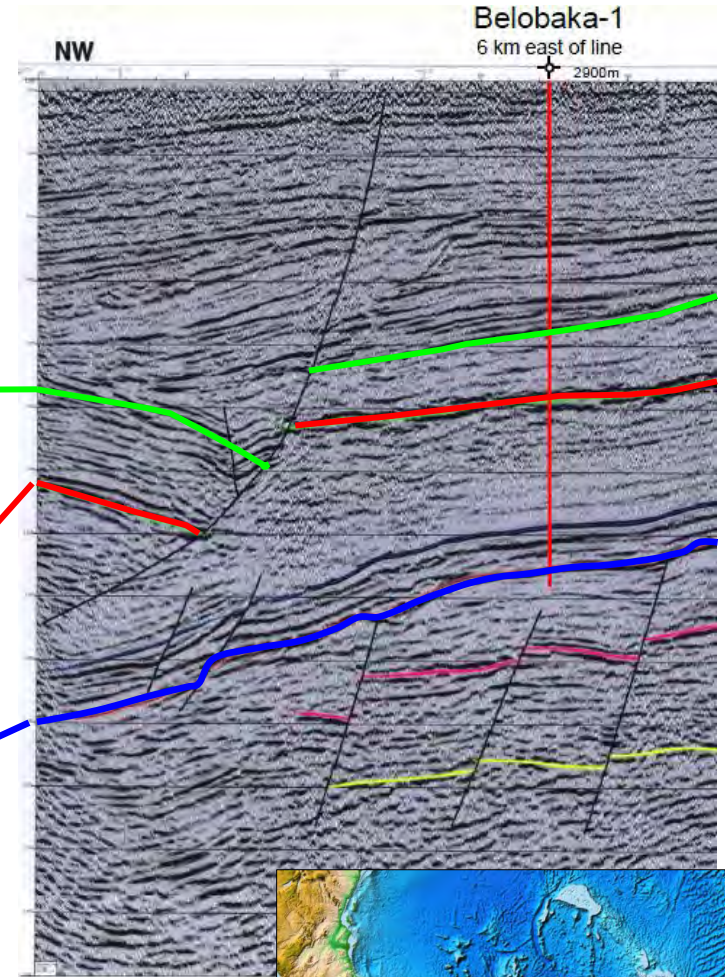
Turonian FS

**MASCARENE
SYNRIFT EQUIVALENT**

Mid Cretaceous Unc

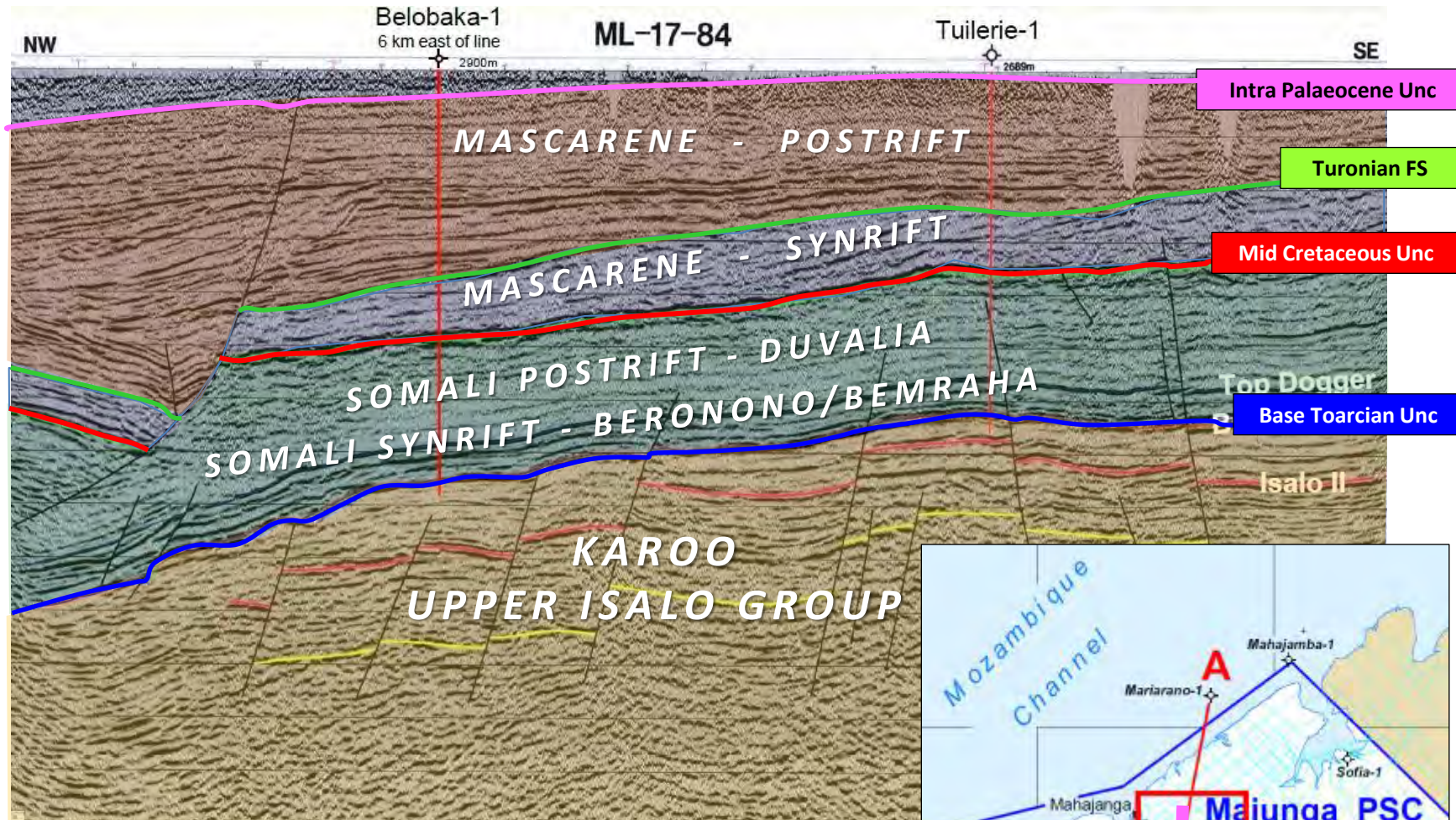
**SOMALI
POSTRIFT EQUIVALENT**

Base Toarcian Unc



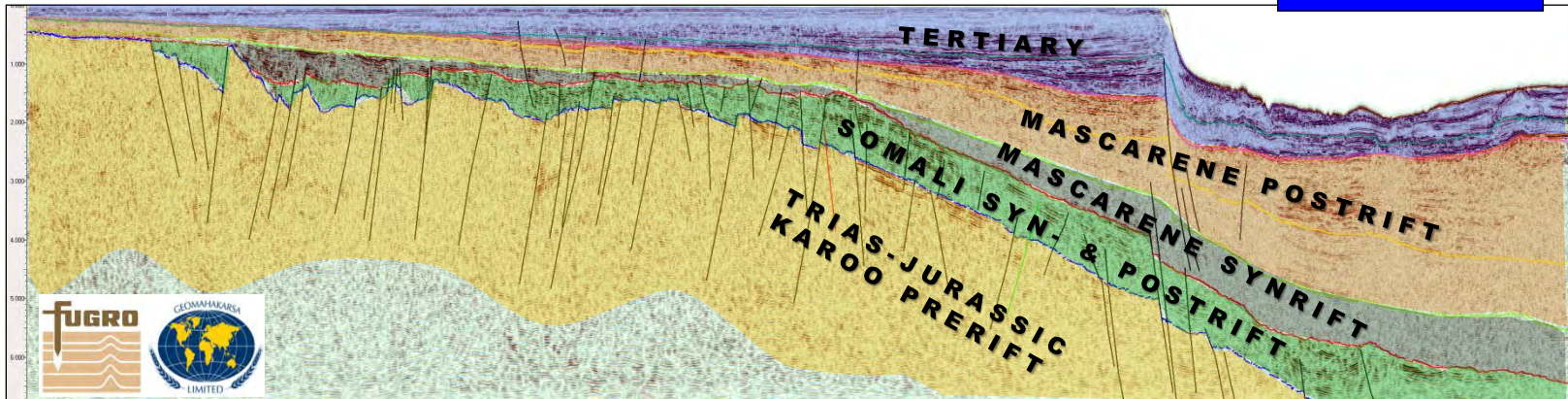
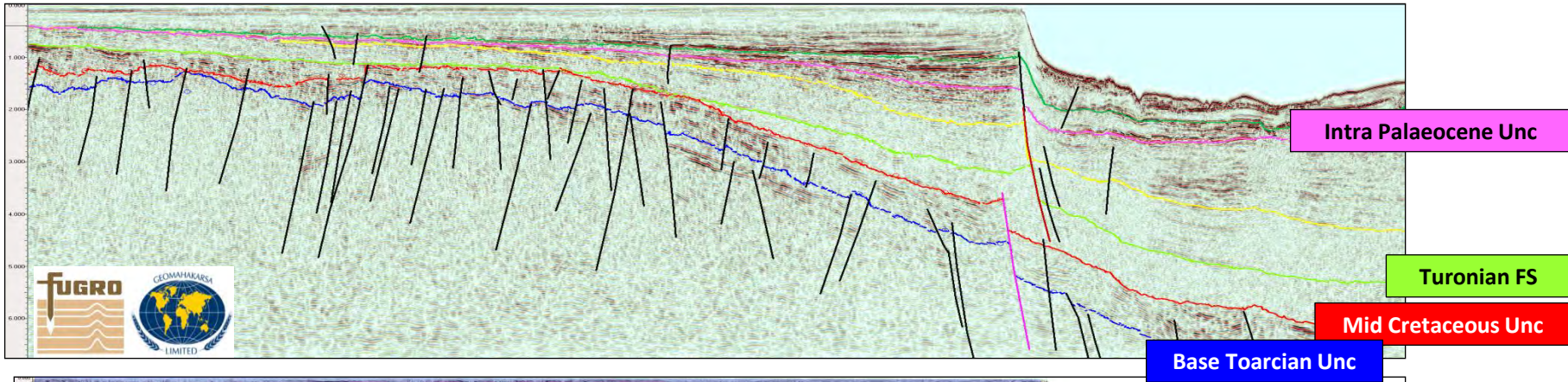
From Webster & Ensign 2002

Seismic-to-Well Ties Onshore Majunga Basin NW Madagascar

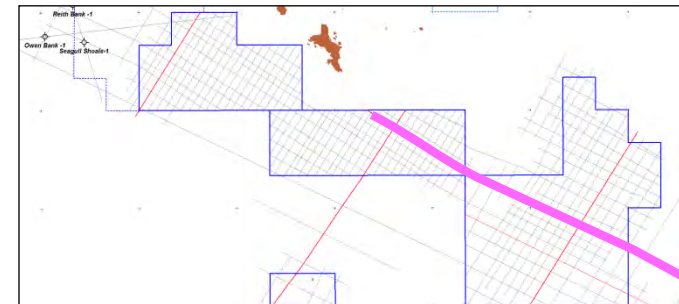


Correira Sub-basin - Seismic Line SY10-039

WNW ← CORREIRA SUB-BASIN → ESE

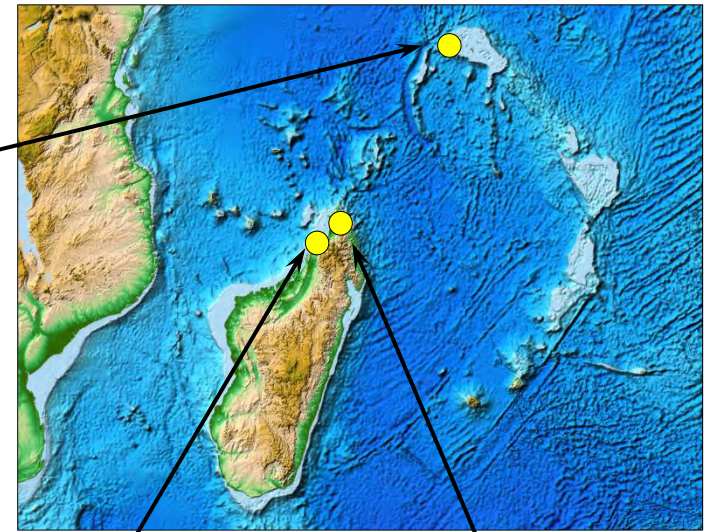


2D Seismic Line SY10-039



E – M Jurassic Seychelles and NW Madagascar Stratigraphy

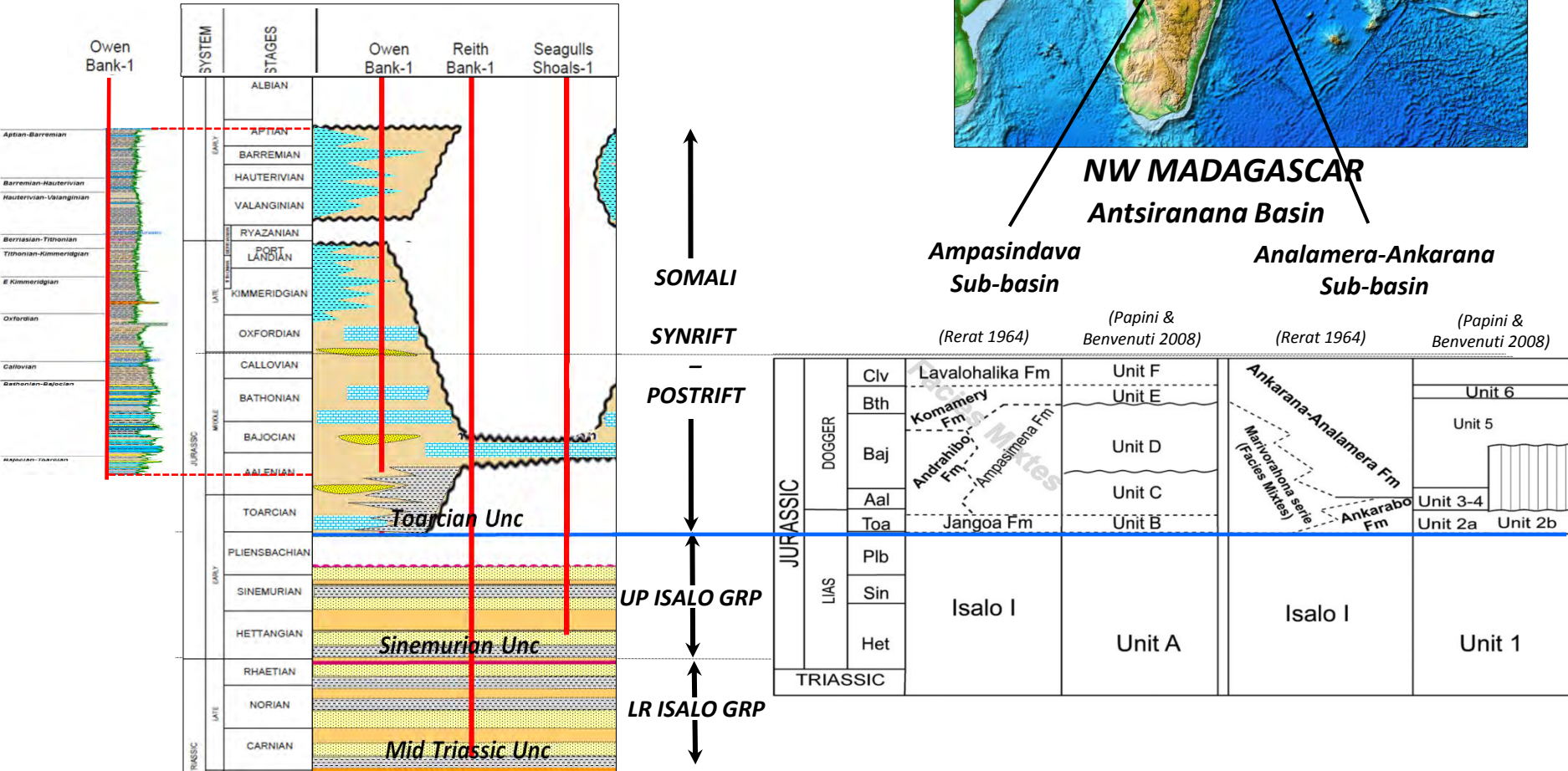
NW SEYCHELLES (from WHL Energy 2012)



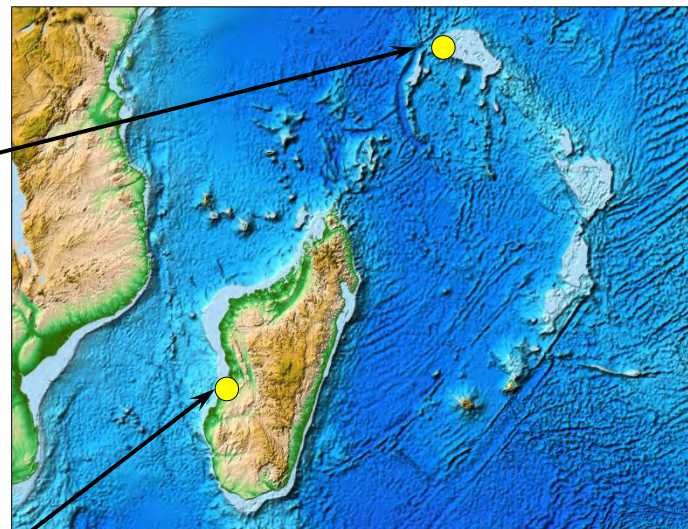
NW MADAGASCAR Antsirana Basin

Ampasindava Sub-basin

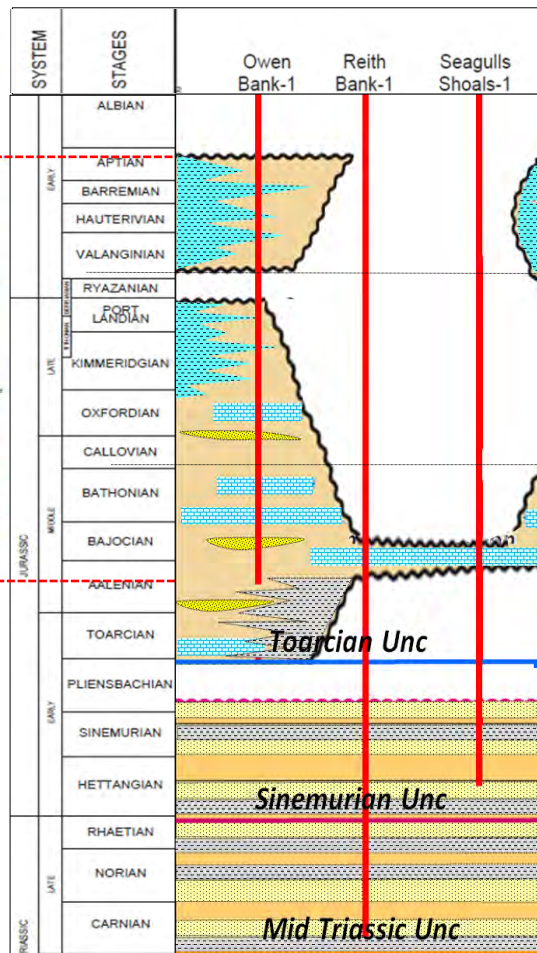
Analamera-Ankarana Sub-basin



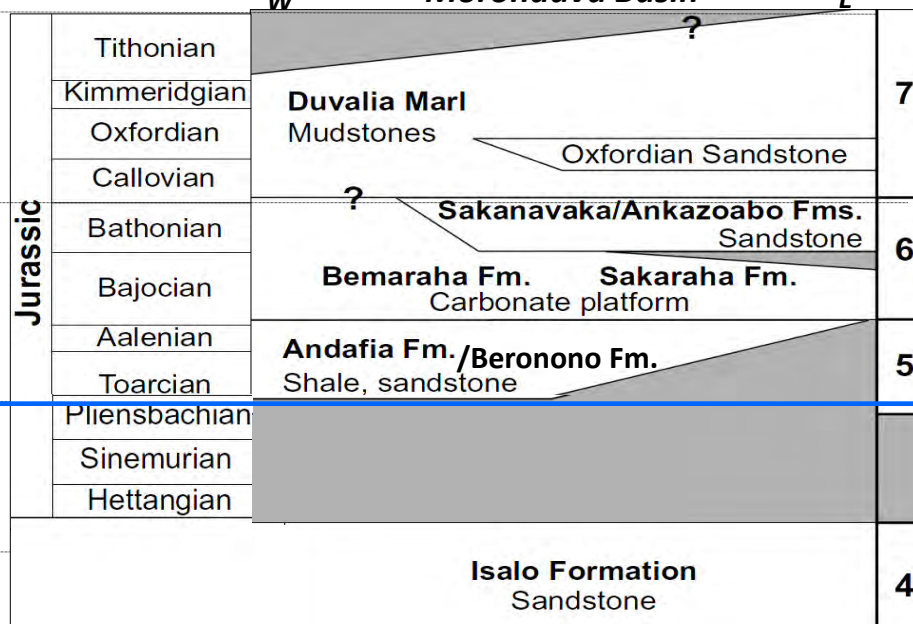
E – M Jurassic Seychelles and Central West Madagascar Stratigraphy



NW SEYCHELLES (from WHL Energy 2012)



CENTRAL WEST MADAGASCAR Morondava Basin



SOMALI
SYNRIFT
-
POSTRIFT

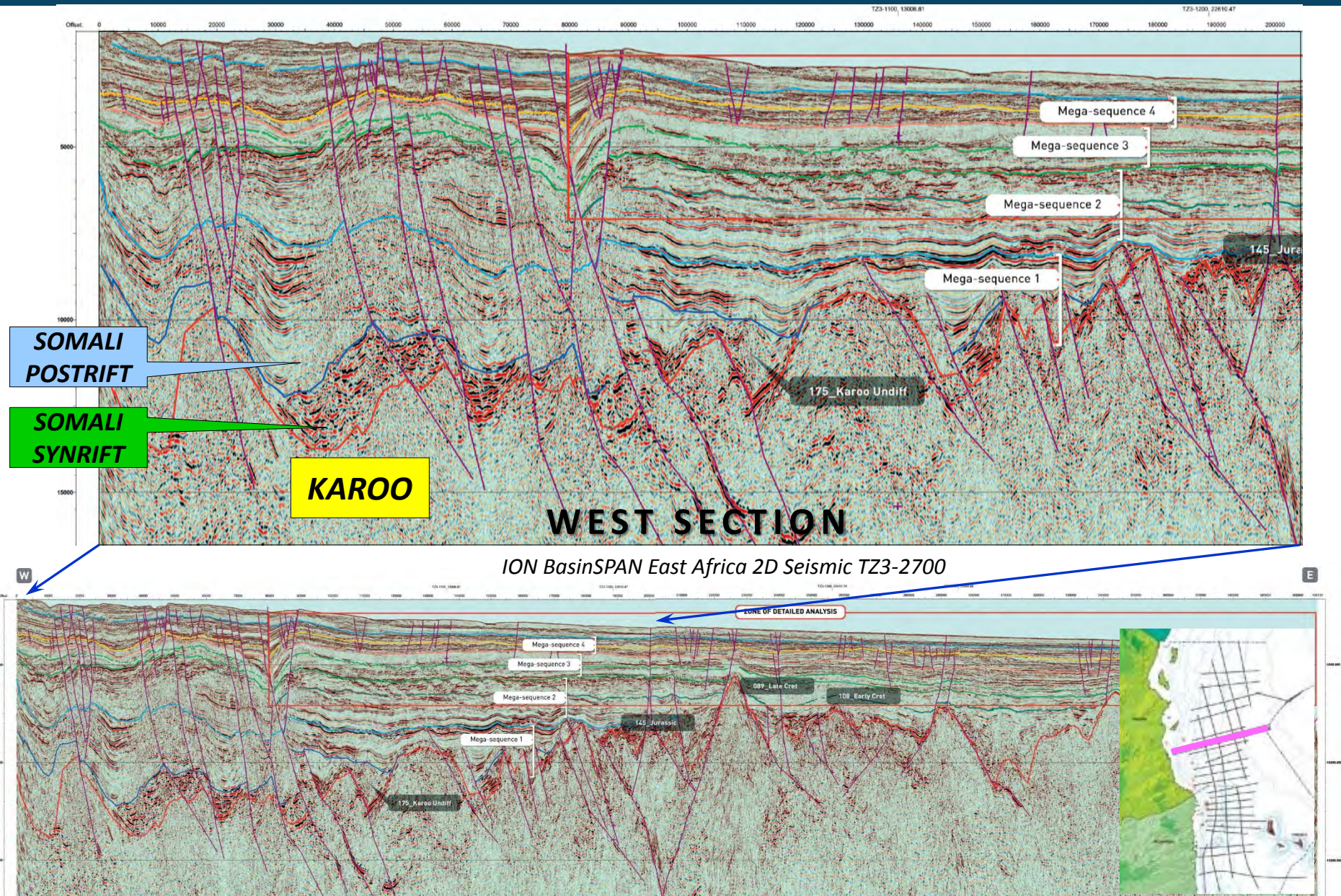
UP ISALO GRP

LR ISALO GRP

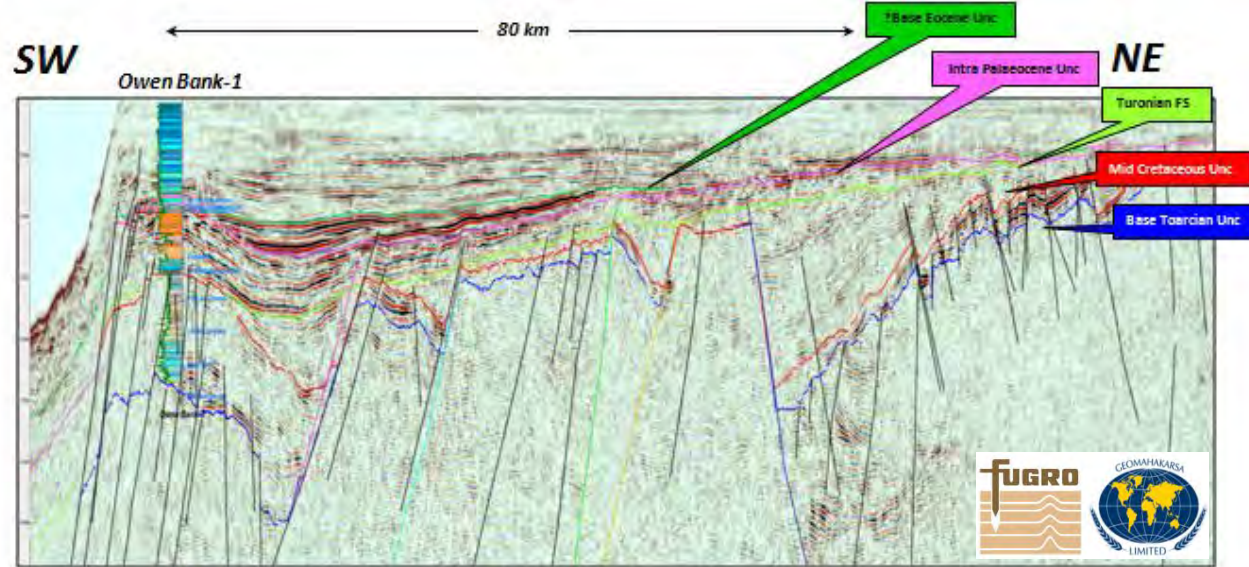
(Geiger et al 2004)

Somali Syn/Postrift-Karoo Relationship, Offshore Tanzania

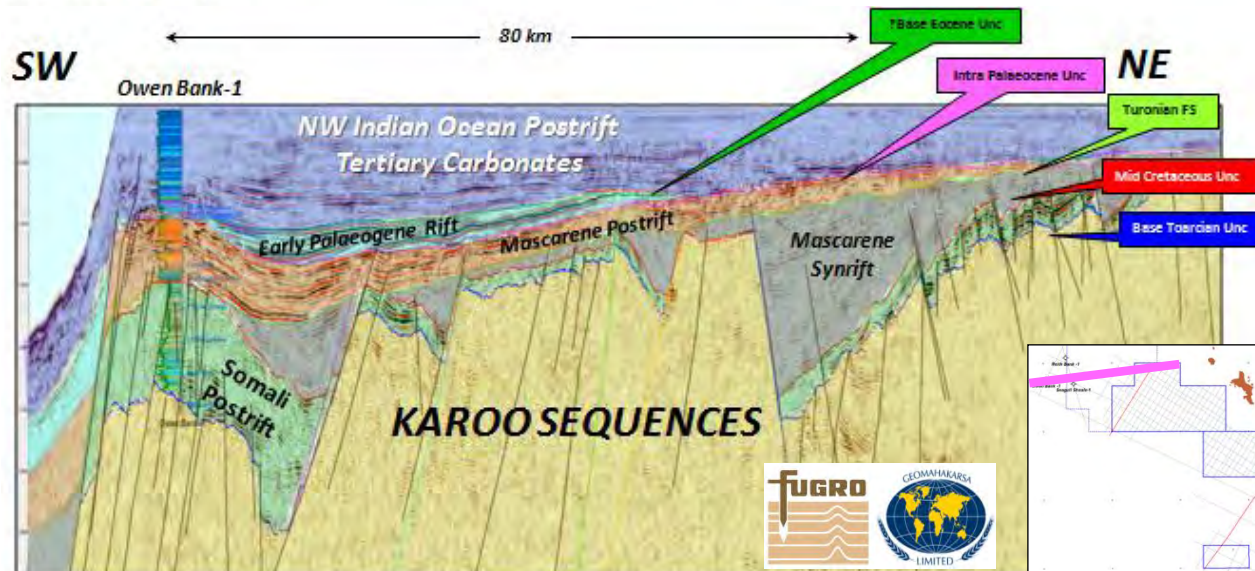
From McDonough et al 2012



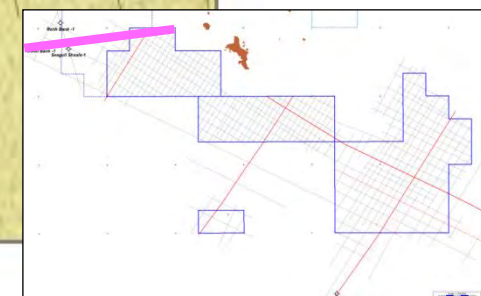
Seychelles – Somali and Mascarene Tectonics & Sedimentation

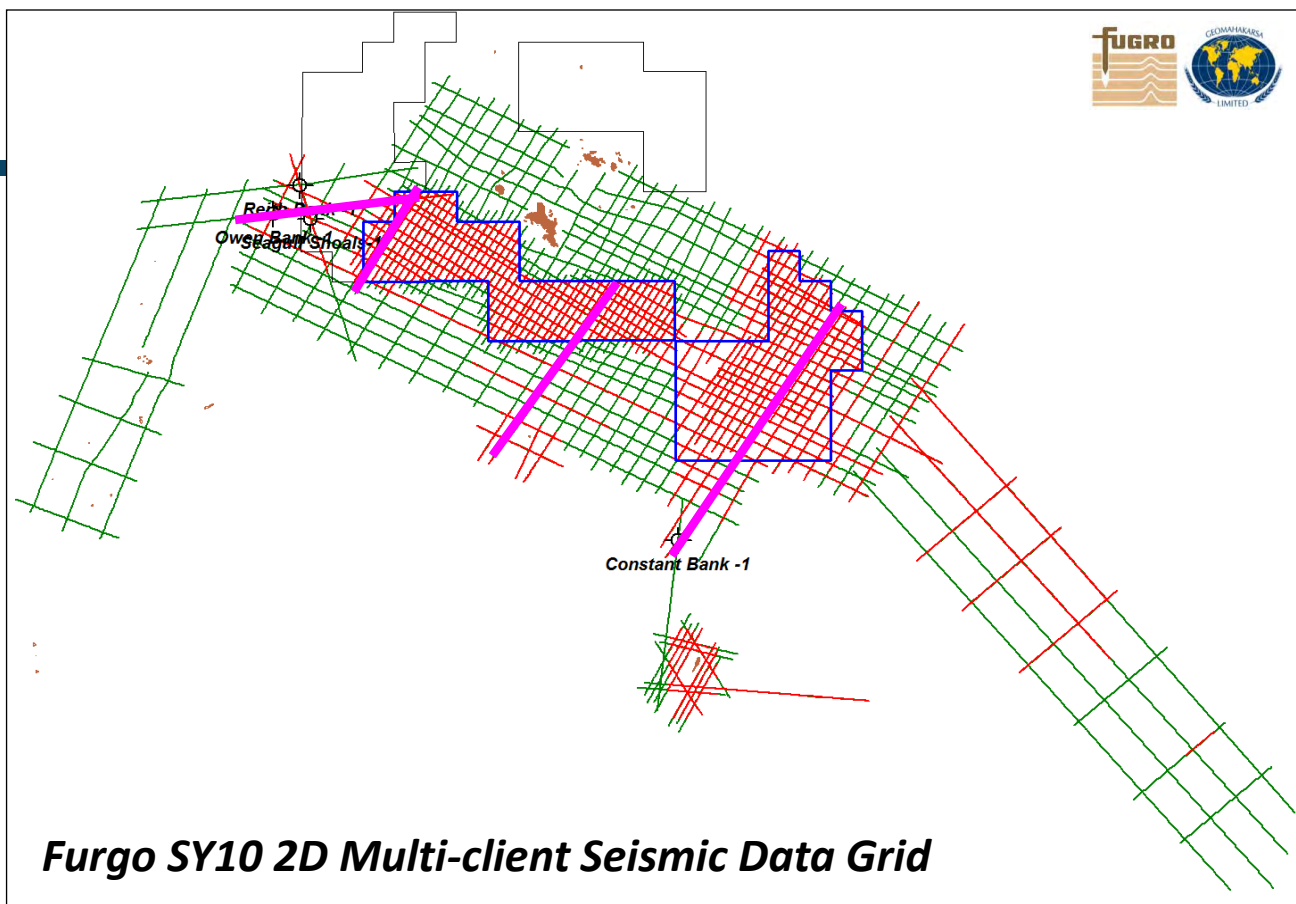


2D Seismic Line SY10-008



2D Seismic Line SY10-008

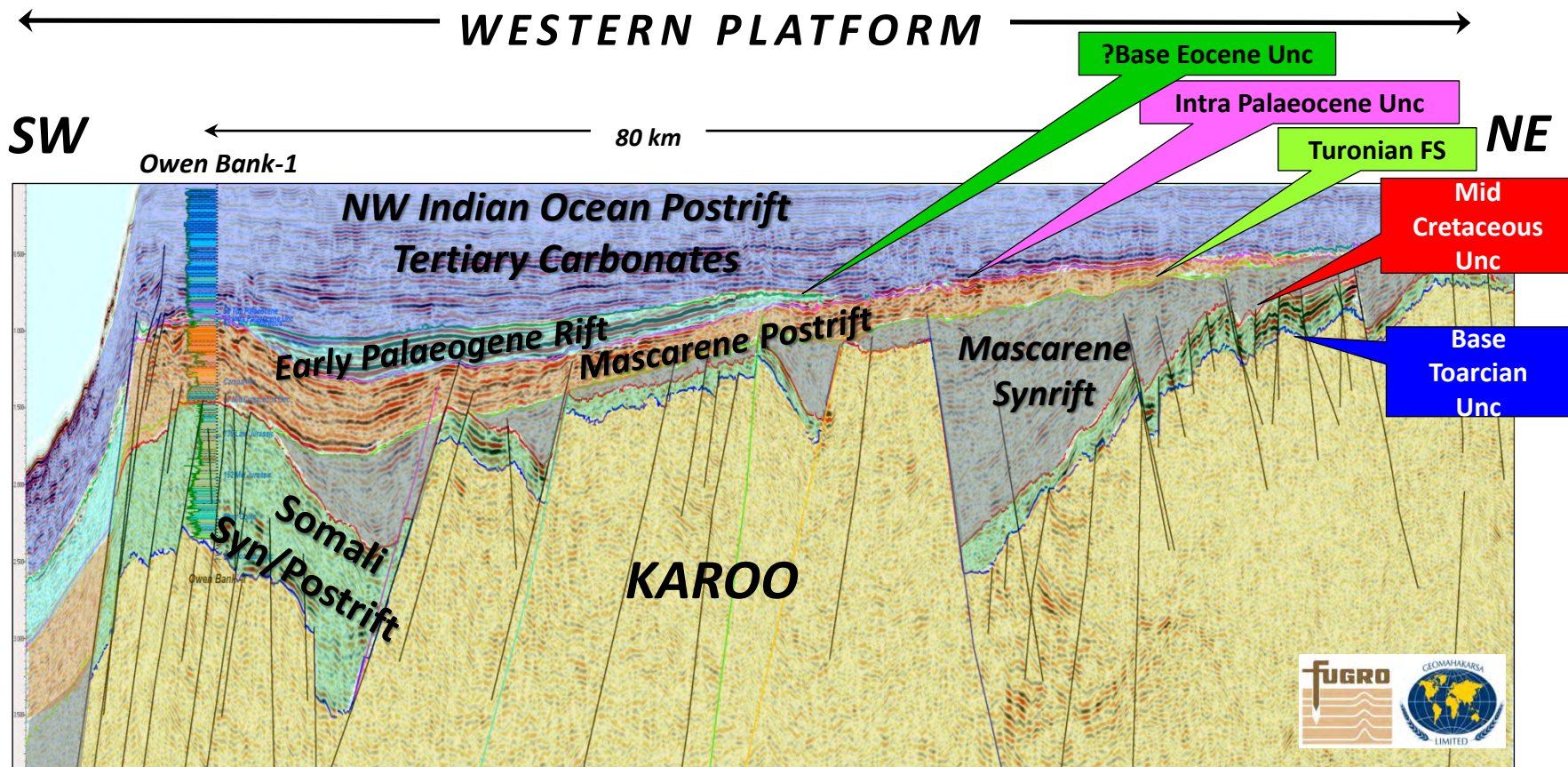




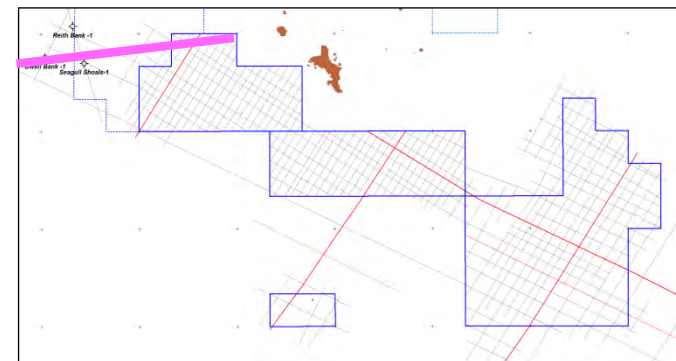
Seychelles Platform

SEISMIC SEQUENCE INTERPRETATION

Seismic Line SY10-008 – Seismic Sequences



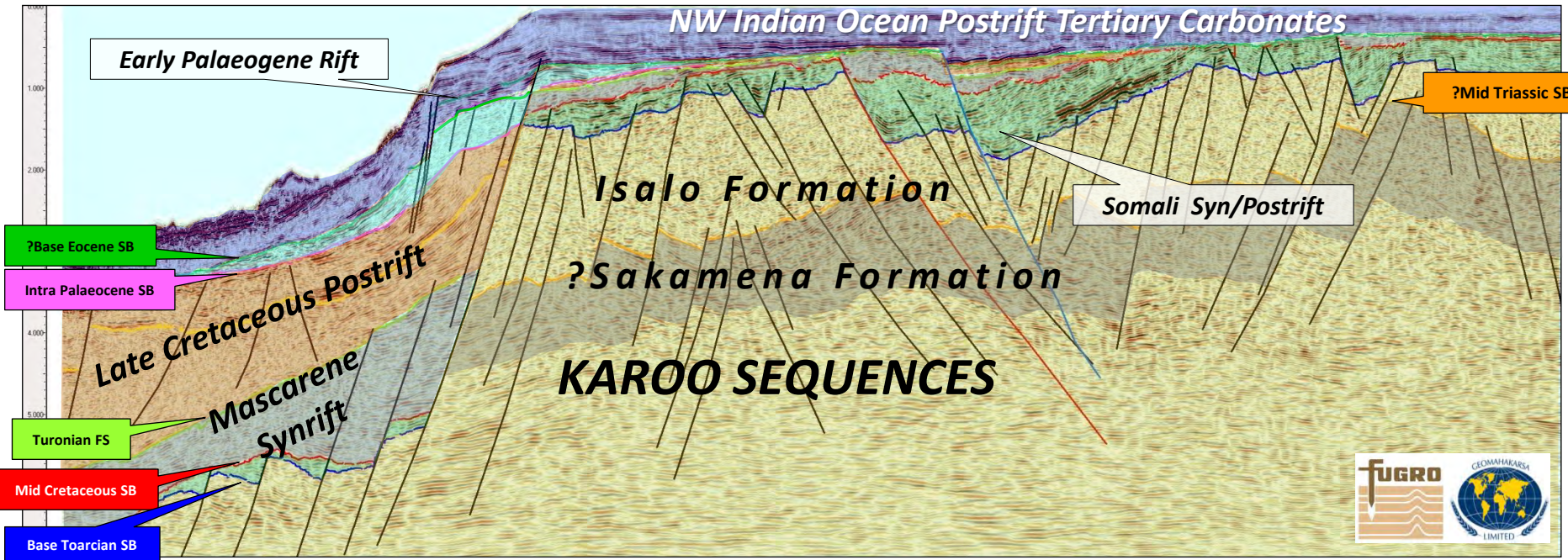
2D Seismic Line SY10-008



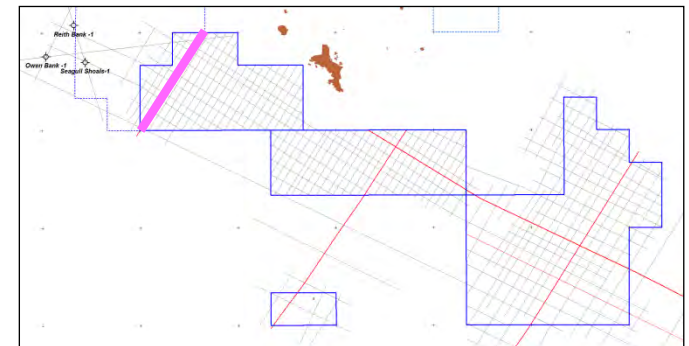
Seismic Line SY10-028 – Seismic Sequences

← WESTERN PLATFORM →

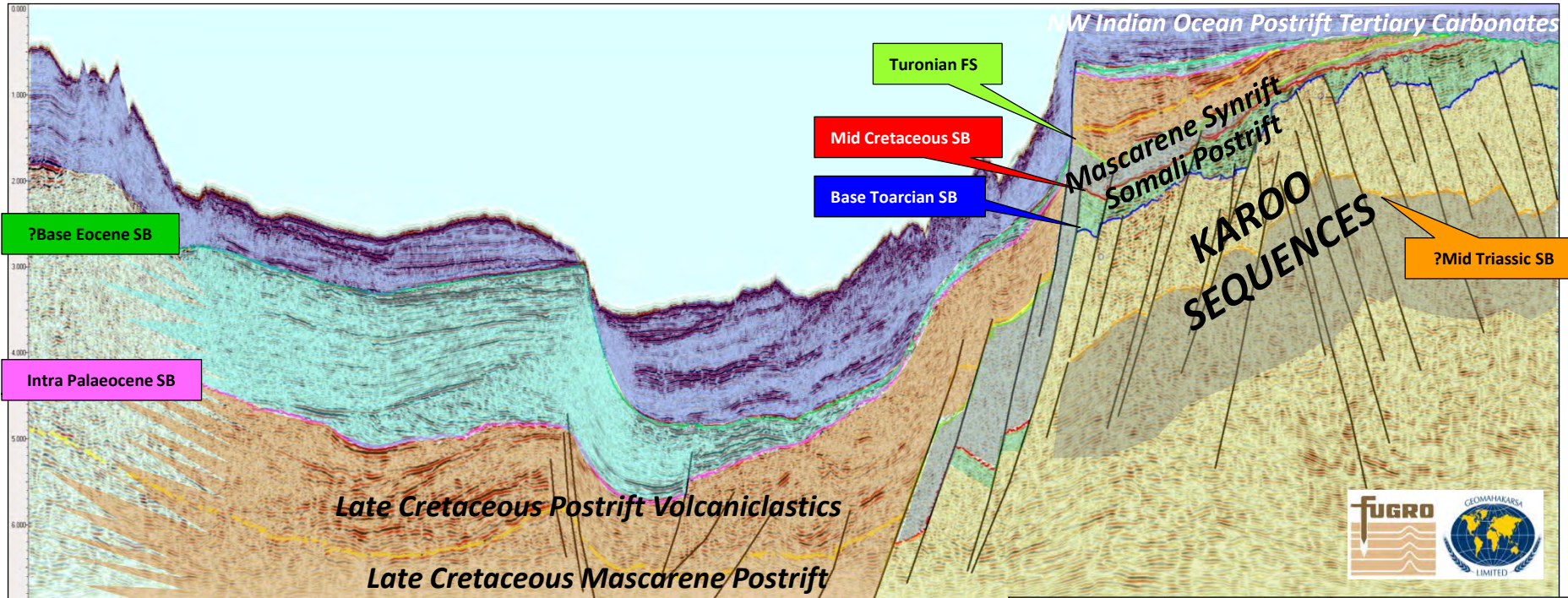
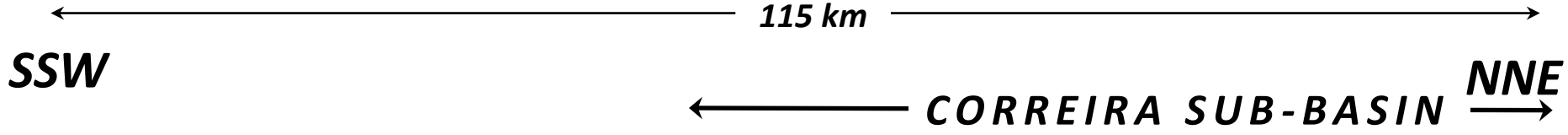
SSW ← 90 km → NNE



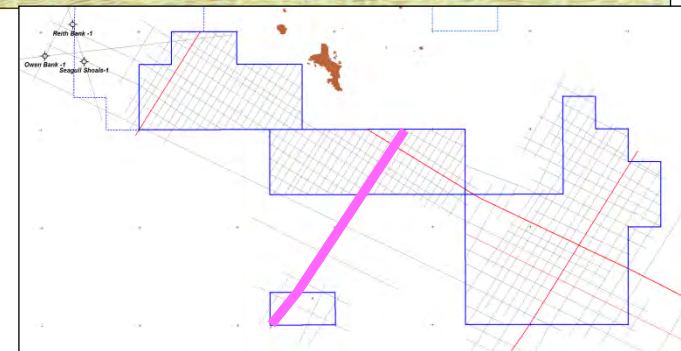
2D Seismic Line SY10-028



Seismic Line SY10-090 – Seismic Sequences

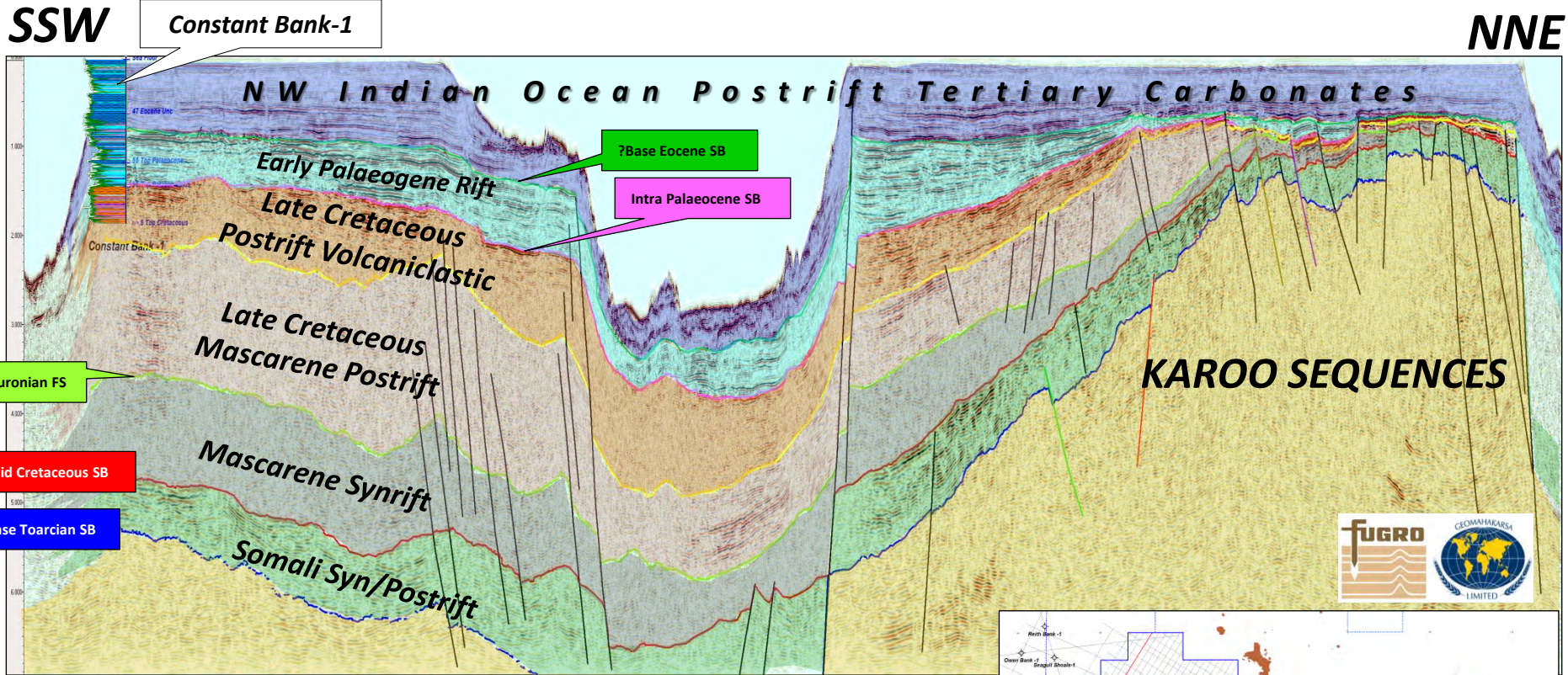


2D Seismic Line SY10-090



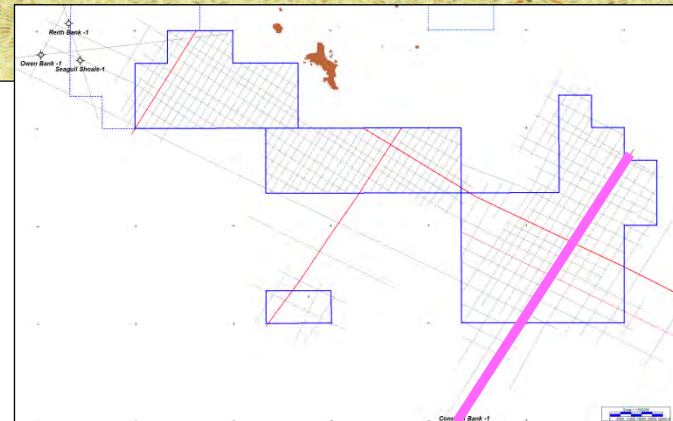
Seismic Line SY10-128 – Seismic Sequences

CORREIRA SUB-BASIN



2D Seismic Line SY10-128

100 km

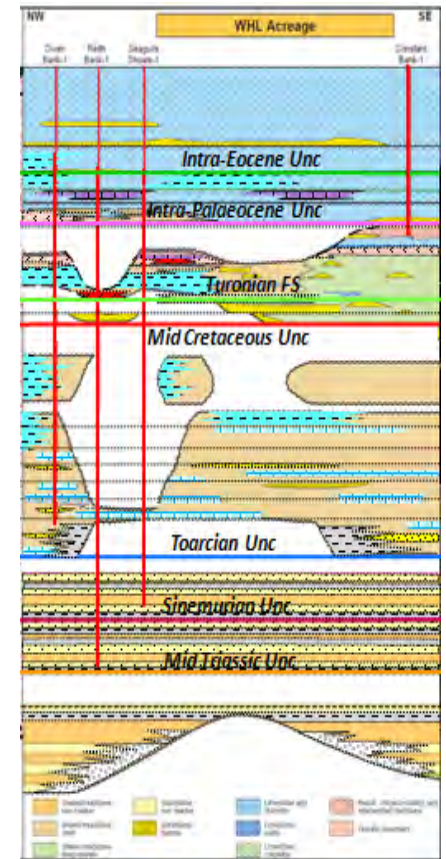


Seychelles Platform

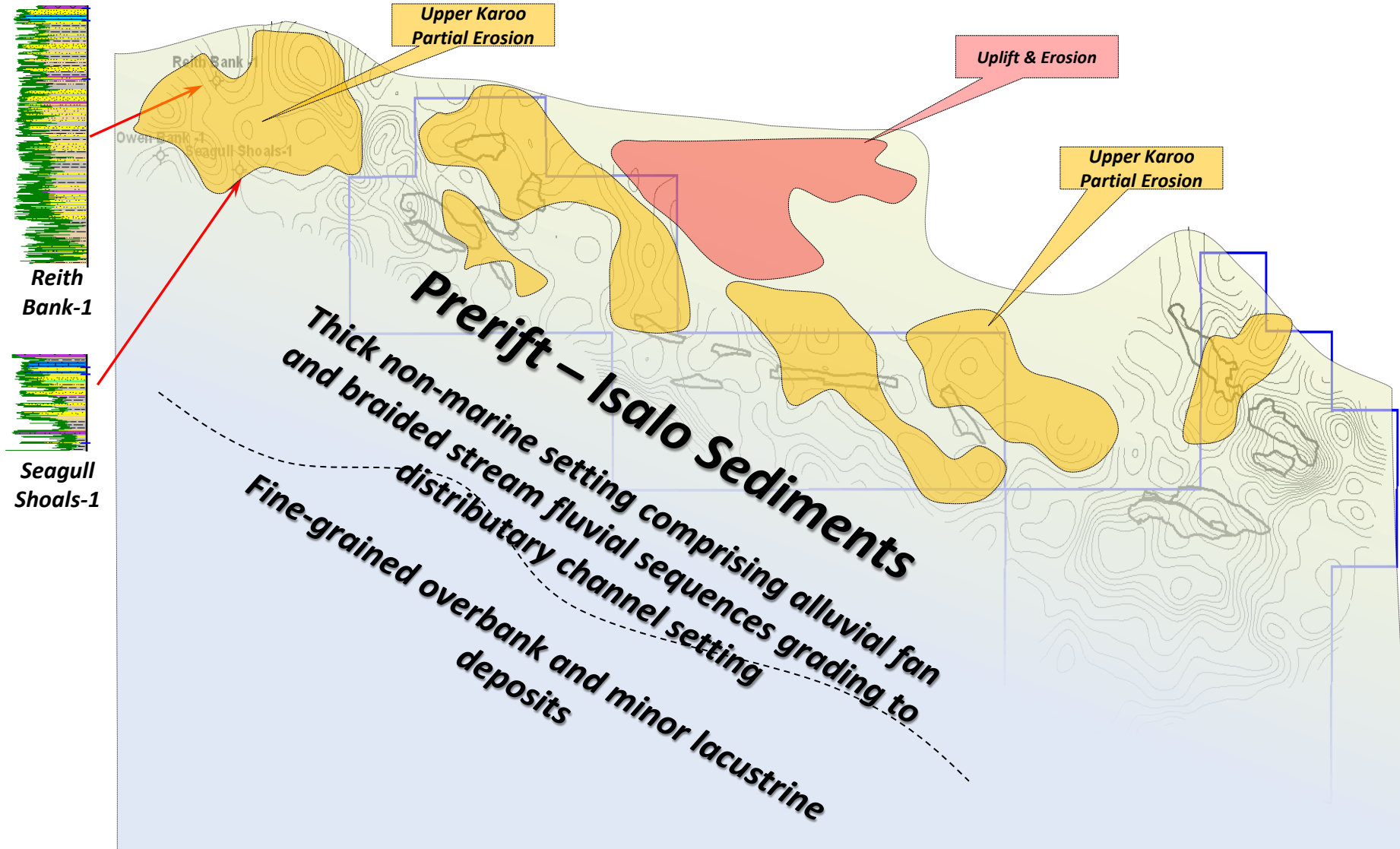
DEPOSITIONAL SEQUENCES

Seychelles Platform

KAROO PRE-RIFT RESERVOIR

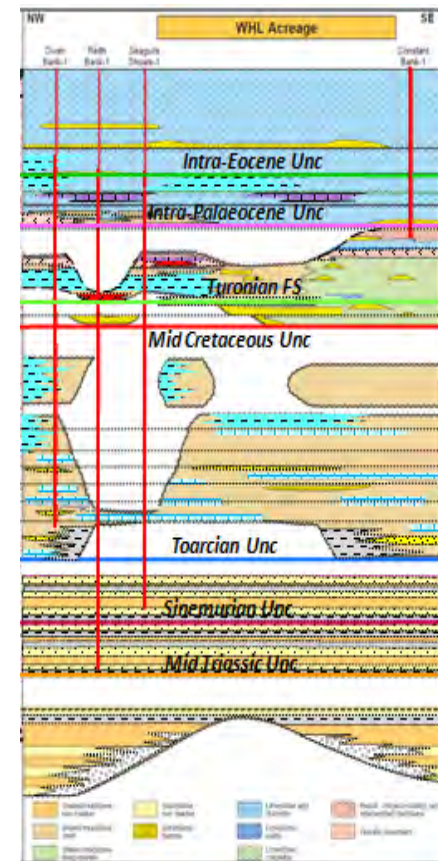


Karoo Sequence – Primary (Isalo) Reservoir

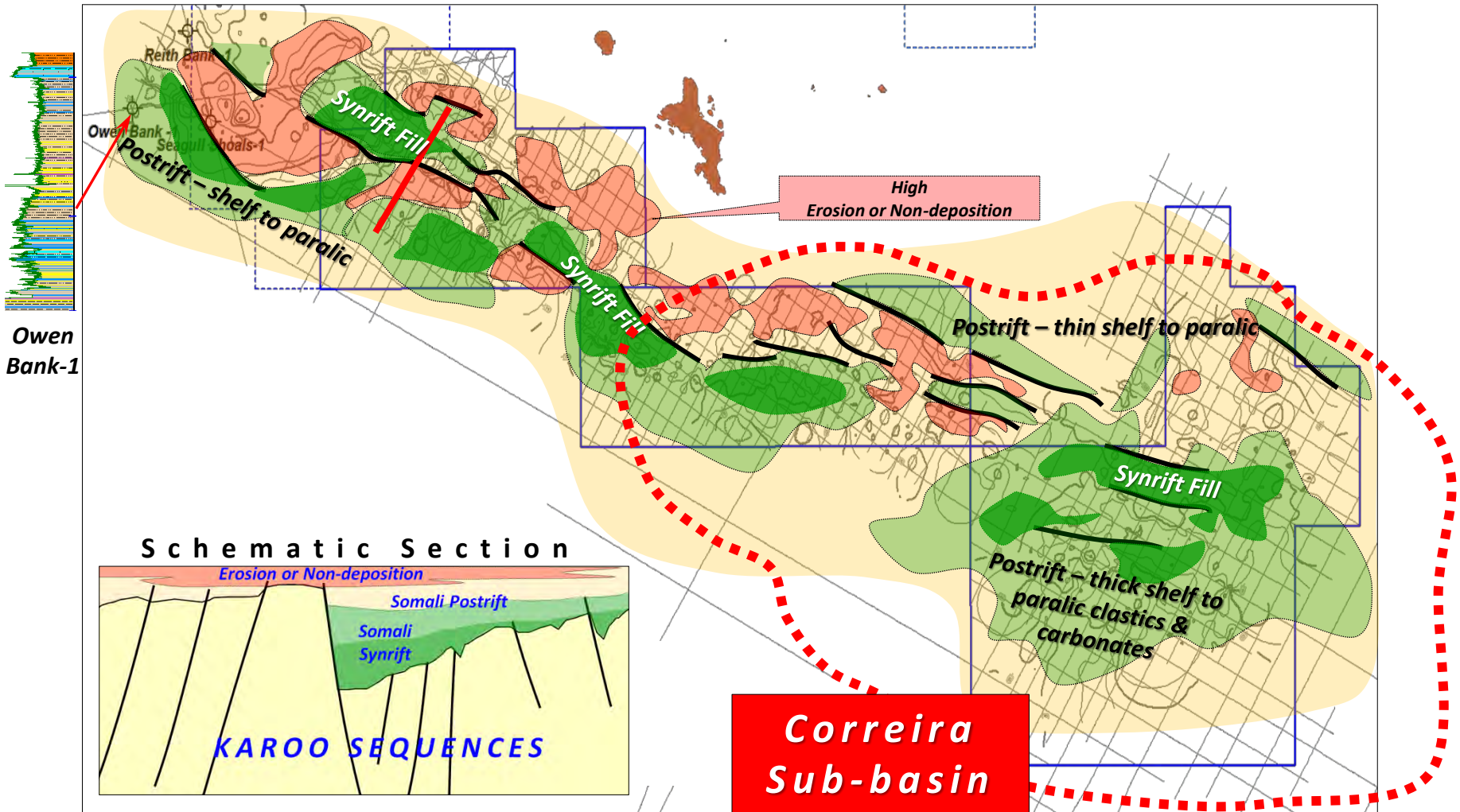


Seychelles Platform

SOMALI RIFT SOURCE & SEAL

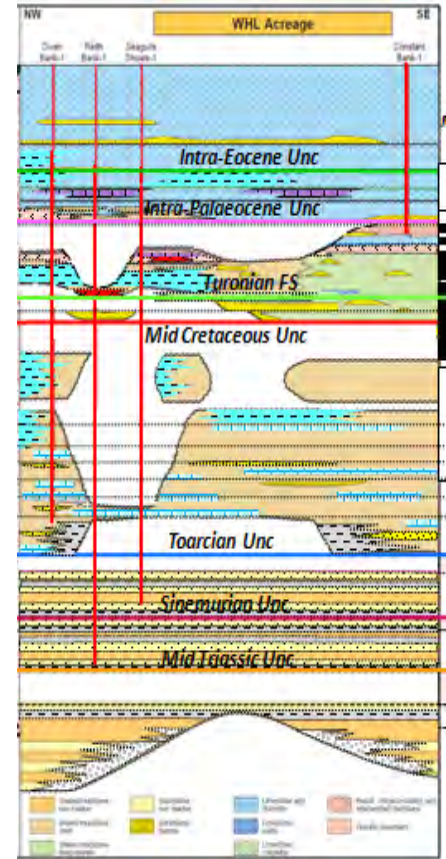


Somali Late Synrift-Postrift Depositional Setting (Toarcian-Albian)



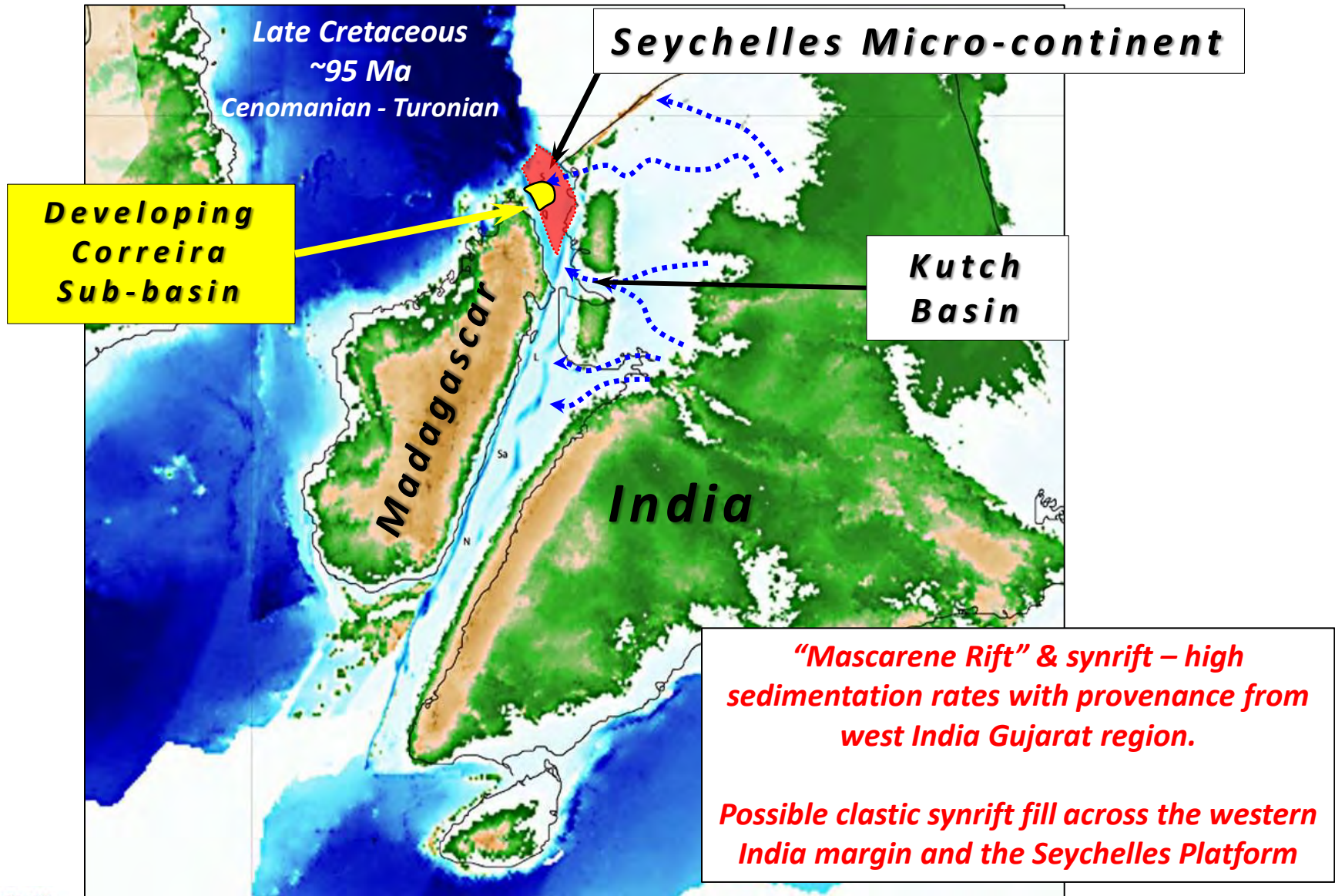
Seychelles Platform

MASCARENE RIFT SEAL, SOURCE & RESERVOIR



Mascarene Early Synrift

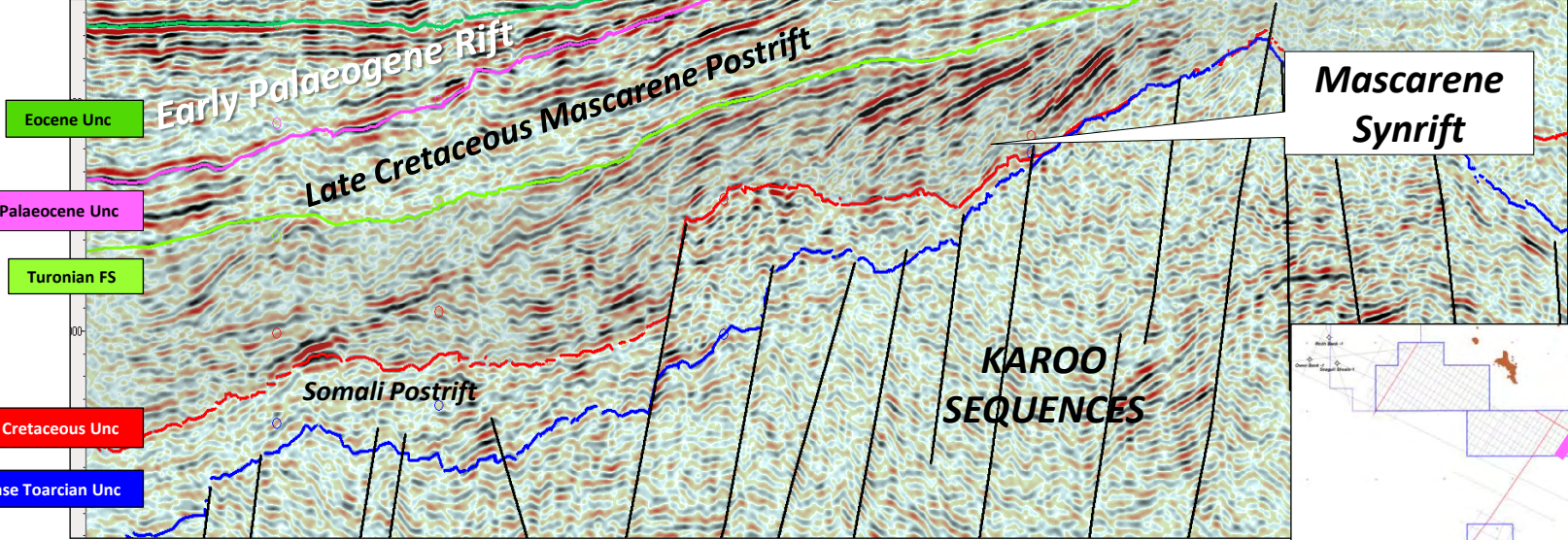
Seychelles Micro-continent adjacent to Kutch Basin



Map by C R Scotese "Plate Tectonic and Paleogeographic reconstructions of the Western Indian Ocean PALEOMAP Project

Mascarene Shelf Prograde Development - Seismic Line SY10-098

SSW ← 35 km → NNE



Mascarene Synrift

KAROO SEQUENCES

Prograding Delta Clinoforms

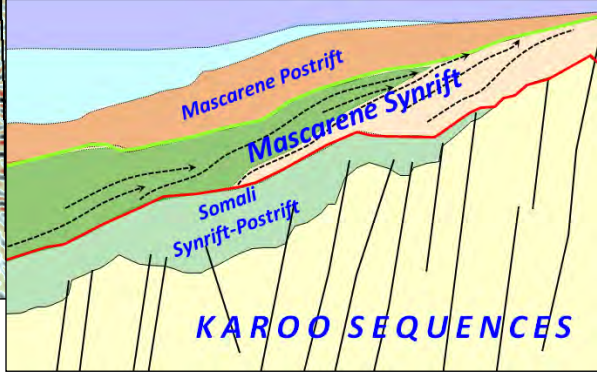
Mascarene Synrift

Somali Postrift

KAROO SEQUENCES

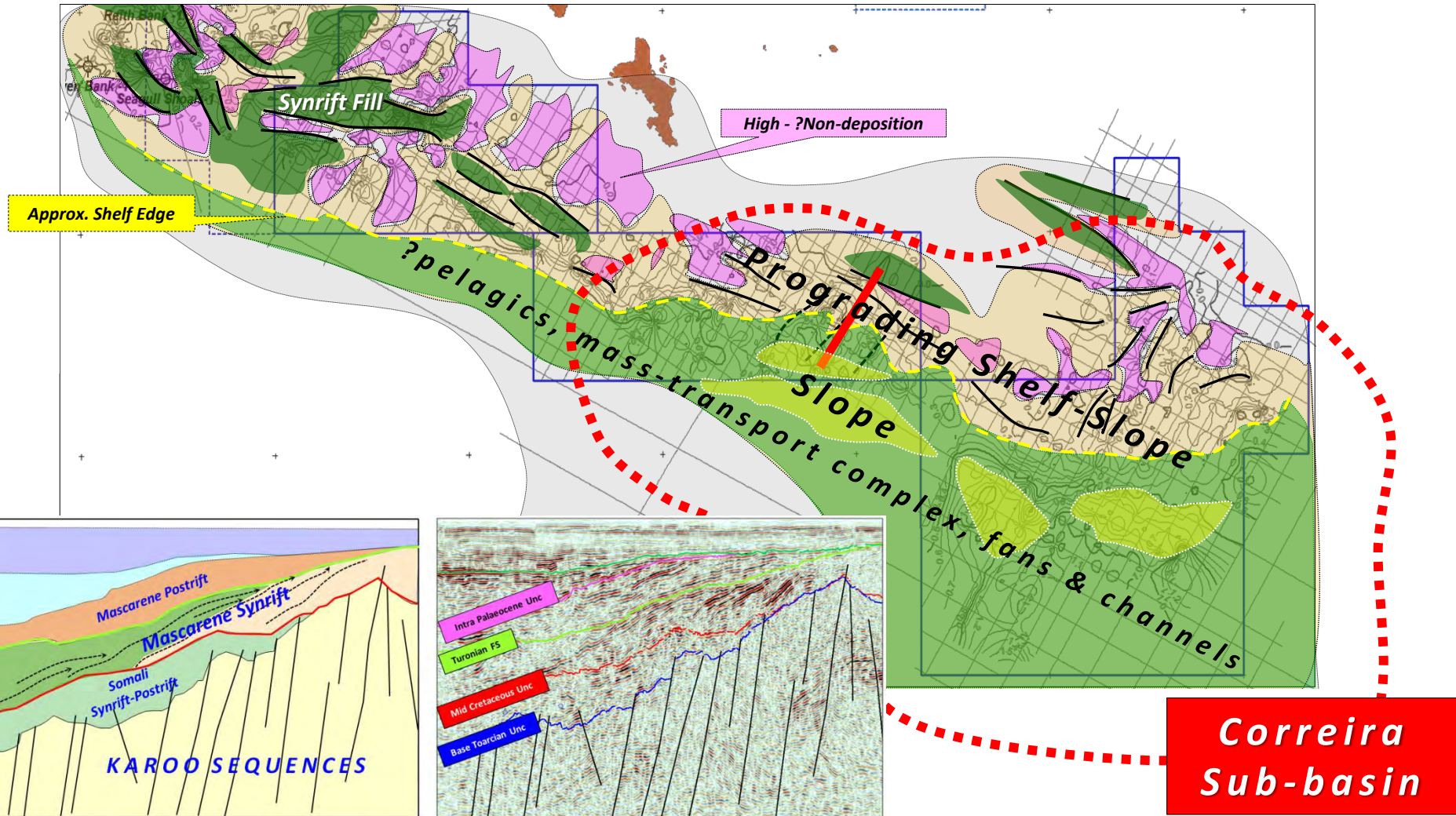


Turonian FS Datum

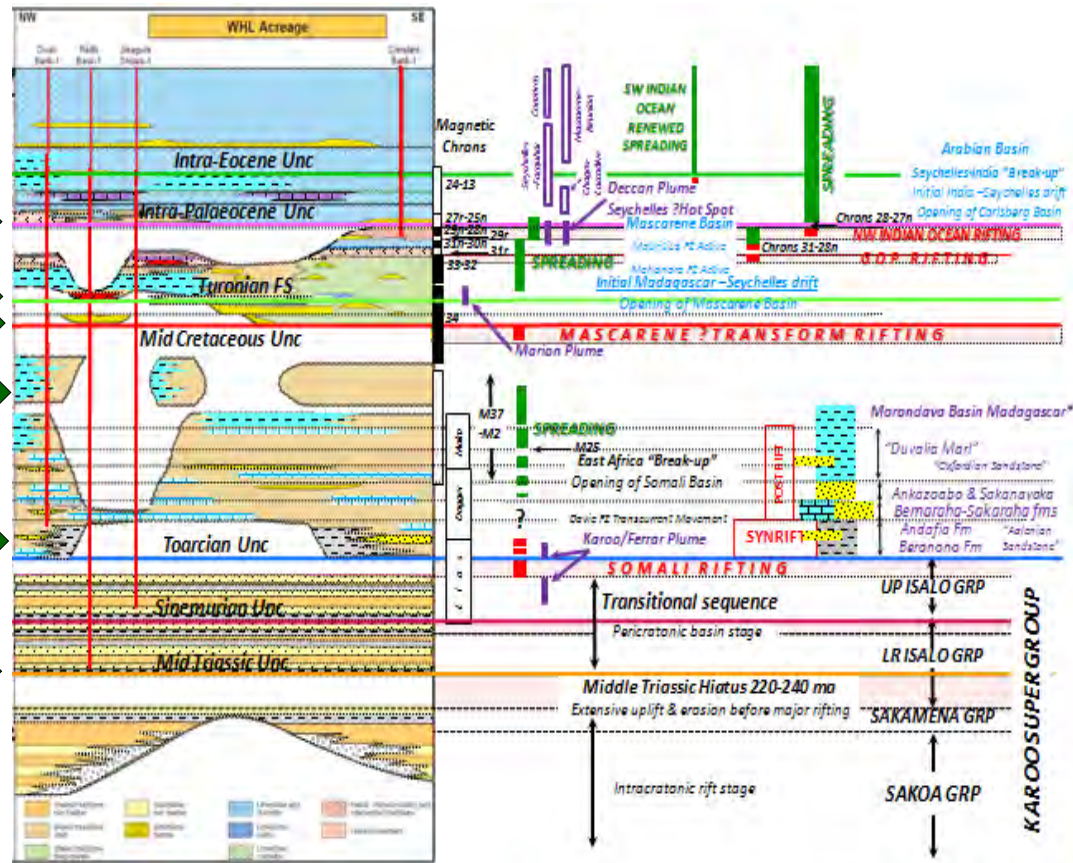


KAROO SEQUENCES

Mascarene Synrift Depositional Setting (Albian to Turonian FS)



**Toarcian-Bajocian
Somali Synrift**

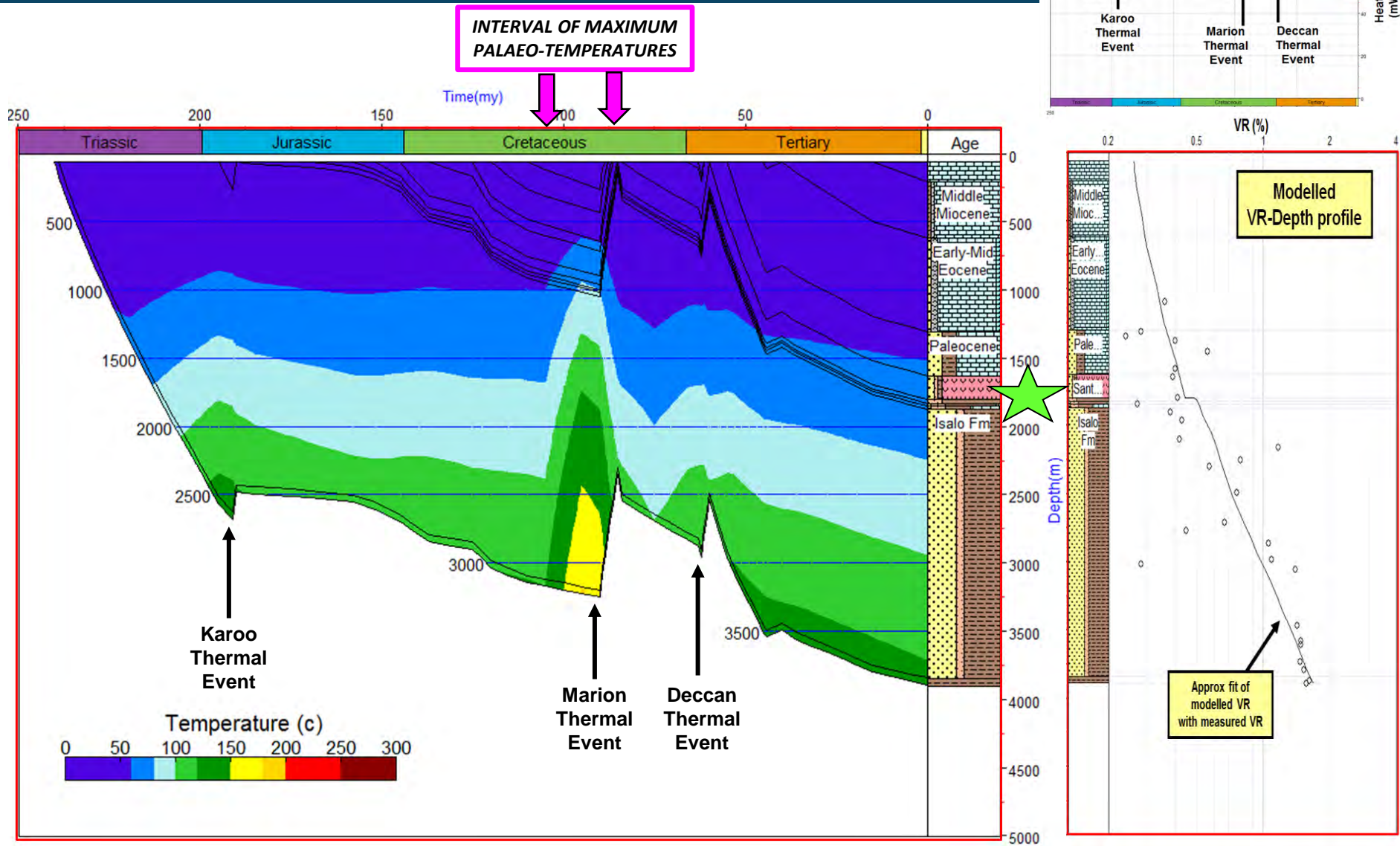


Seychelles Platform

PETROLEUM SYSTEM

Reith Bank-1

Burial History



Reith Bank-1

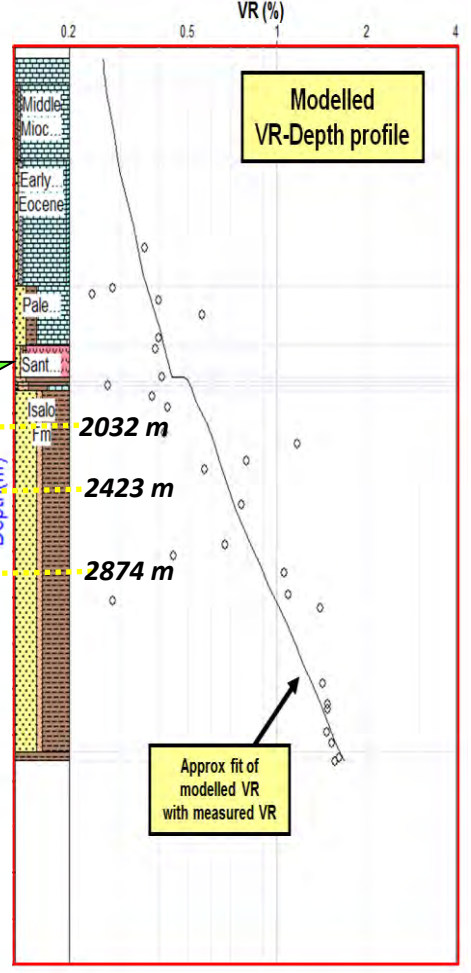
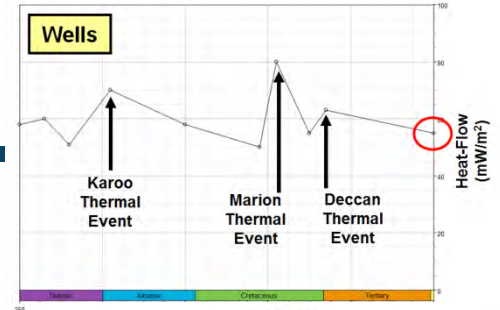
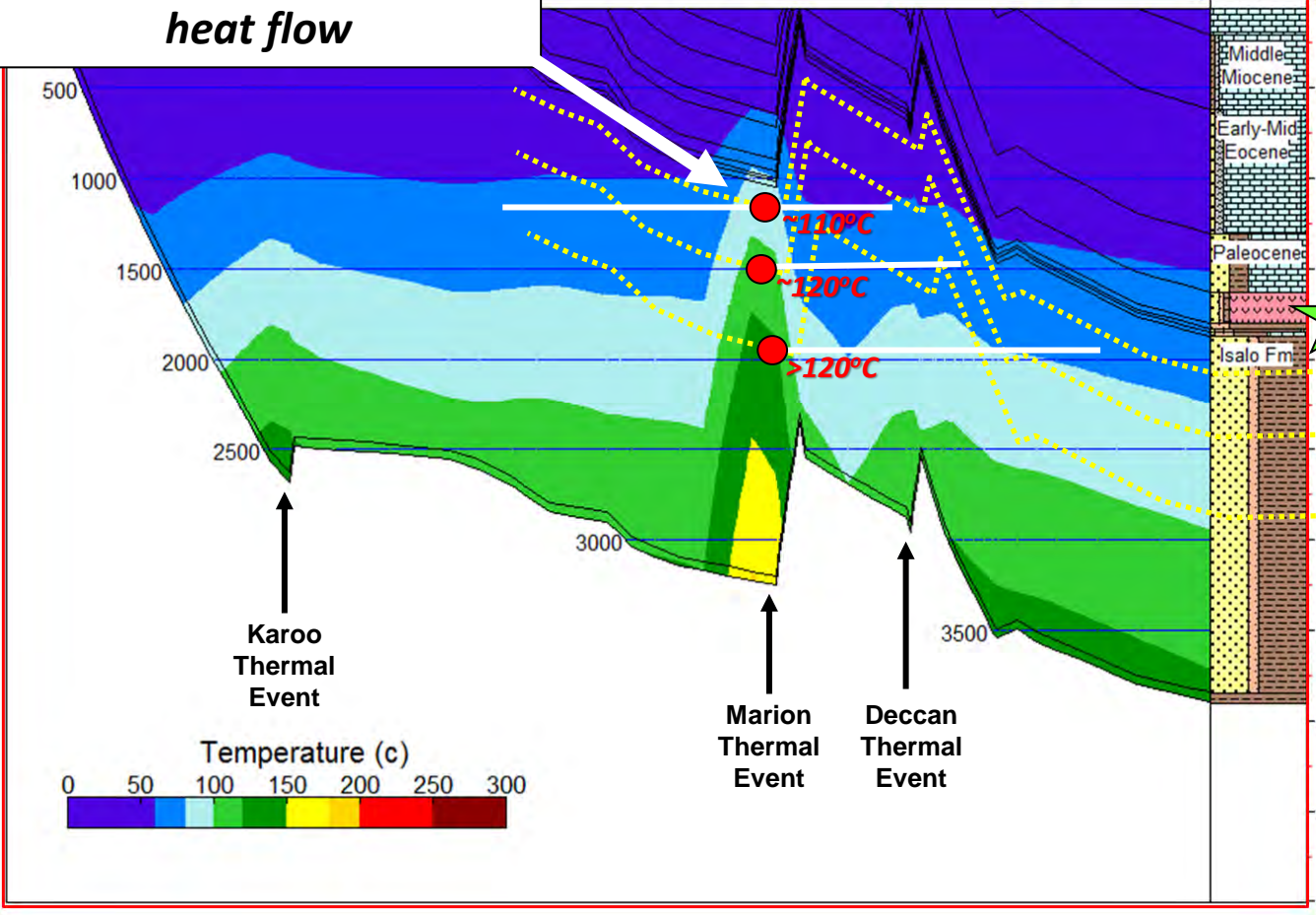
AFTA Constrained Burial History

AFTA –derived maximum palaeo-temperatures provide control to palaeo-heat flow

INTERVAL OF MAXIMUM PALAEO-TEMPERATURES

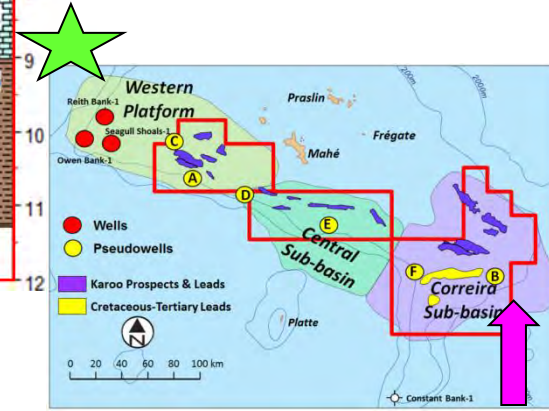
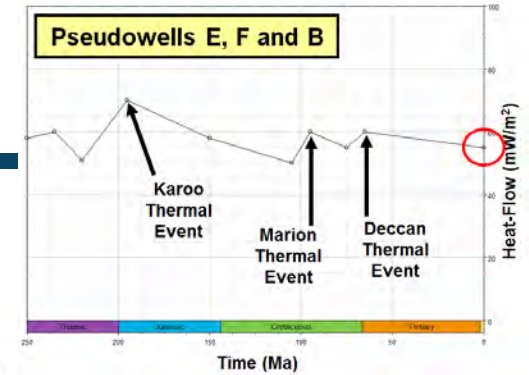
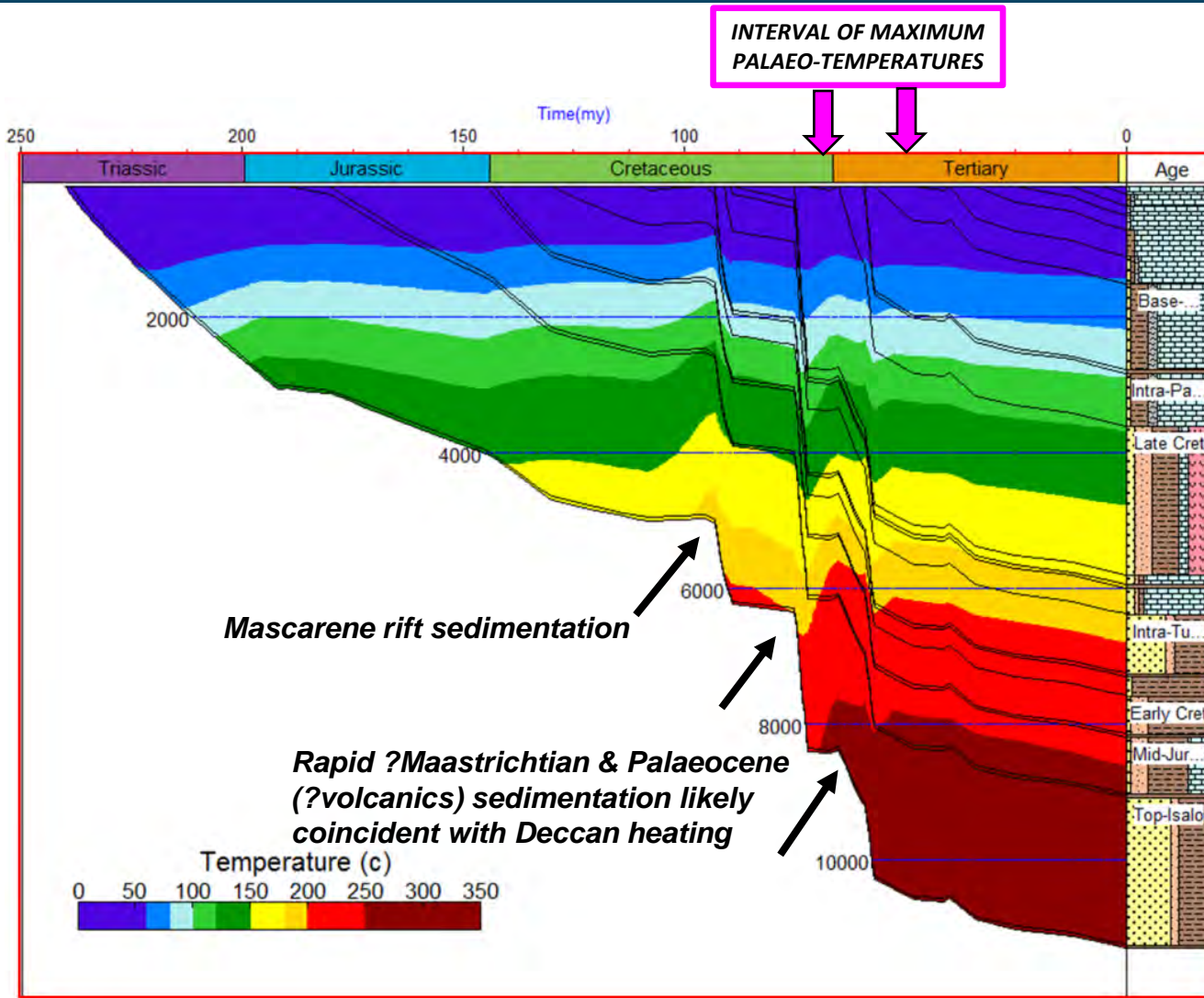
Time(my)

Cretaceous Tertiary Age

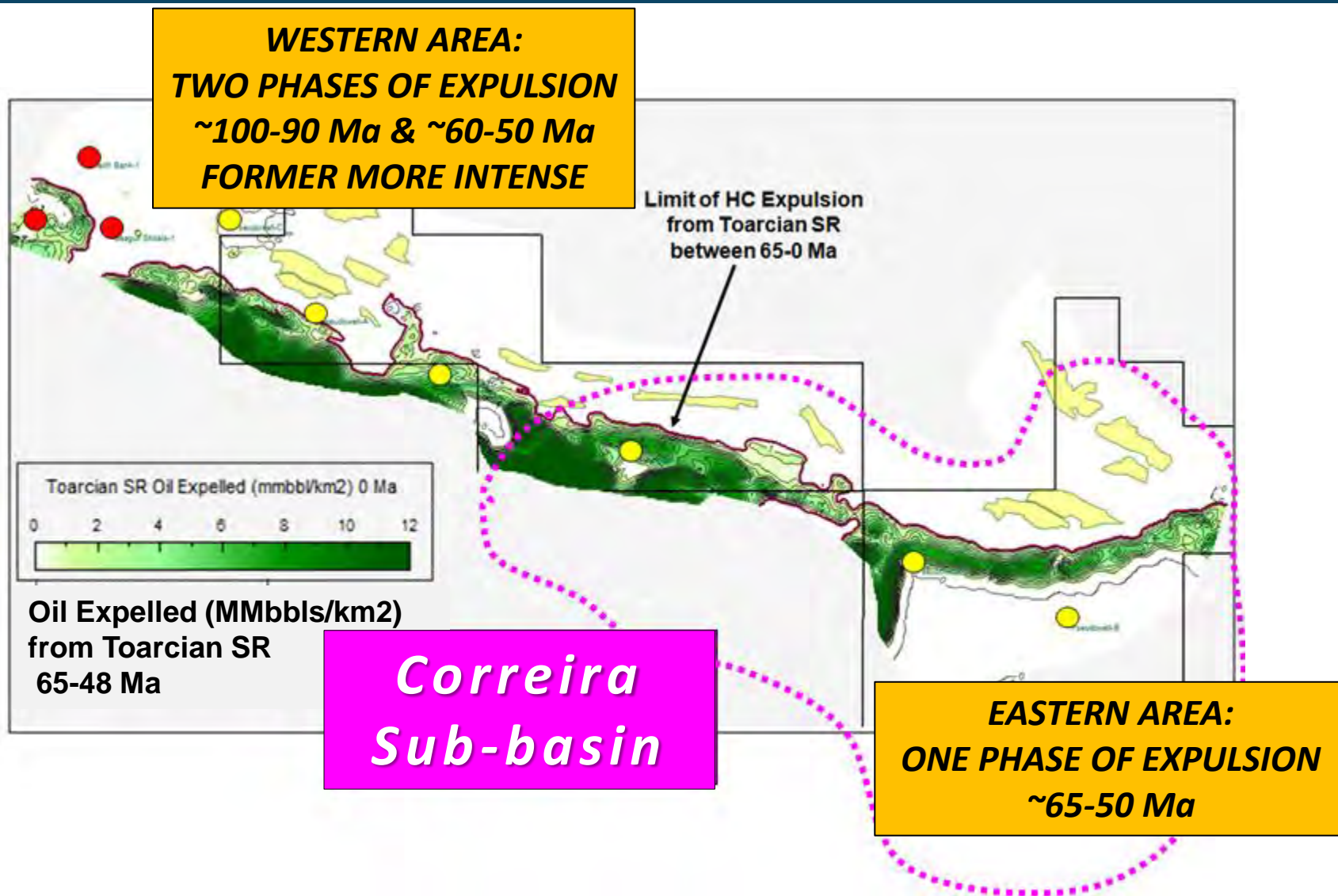


Pseudowell-B

Burial History- Palaeo-temperature

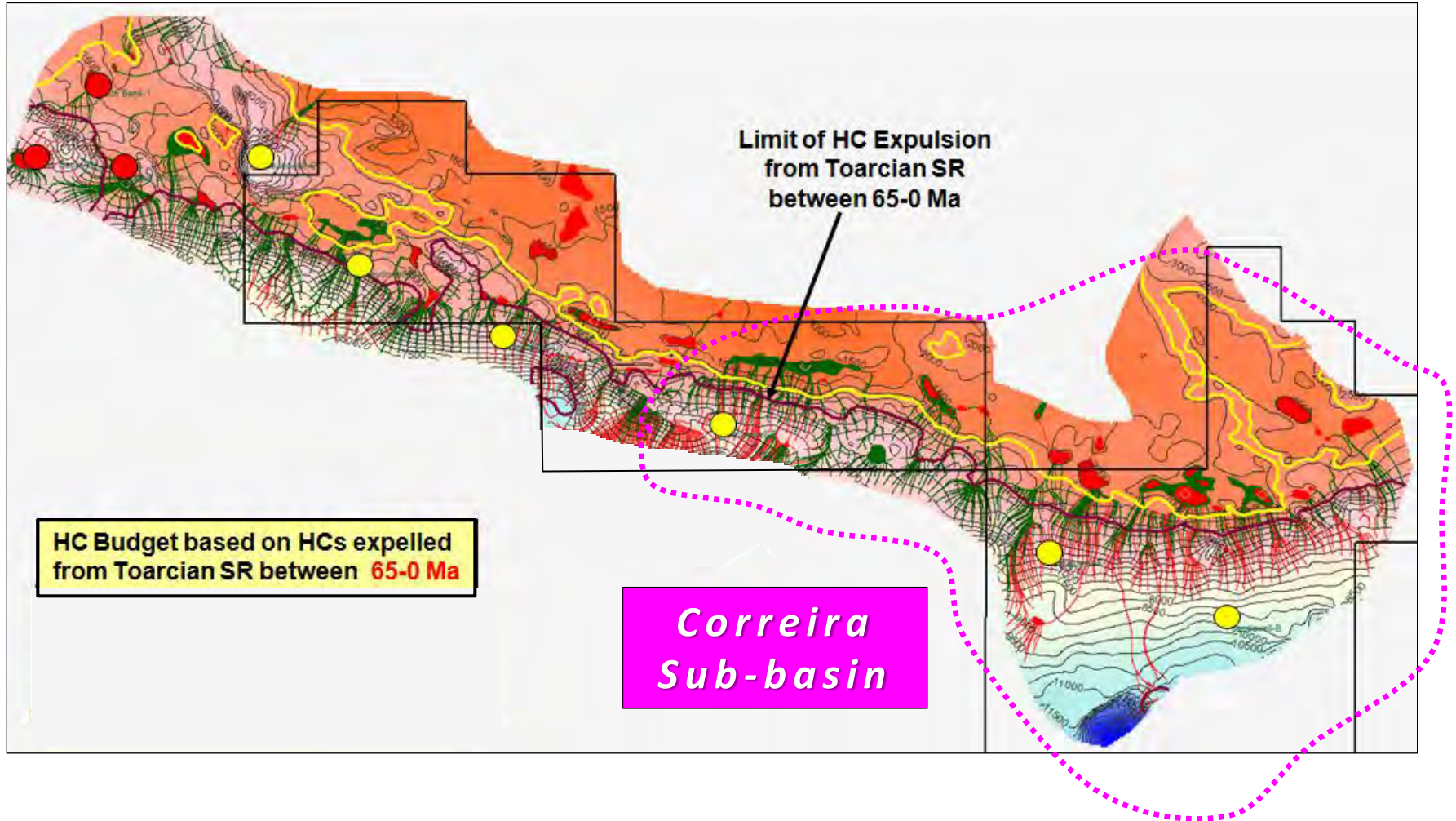


Seychelles Platform Charge Modelling – Difference Maps



Migration-Accumulation

From Toarcian-Bajocian SRs to Isalo Fm (Karoo) Reservoir



Summary

- ❑ *Established tectonic and stratigraphic framework*
- ❑ *New seismic data provided major break-through in understanding*
- ❑ *More confident identification of sub-basins, depocentres, structures and stratigraphy*
- ❑ *Differentiate tectonic, sedimentation & thermal histories in sub-basins*
- ❑ *Ability to more confidently identify reservoir, seal and source units*
- ❑ *Unlock petroleum systems*



Thanks to

***Fugro and Geomahkarsa for permission to
display SY10 MC2D Seismic Data***

And

***Chris Scotese for approval to display the
Paleomap Project Plate Reconstructions***