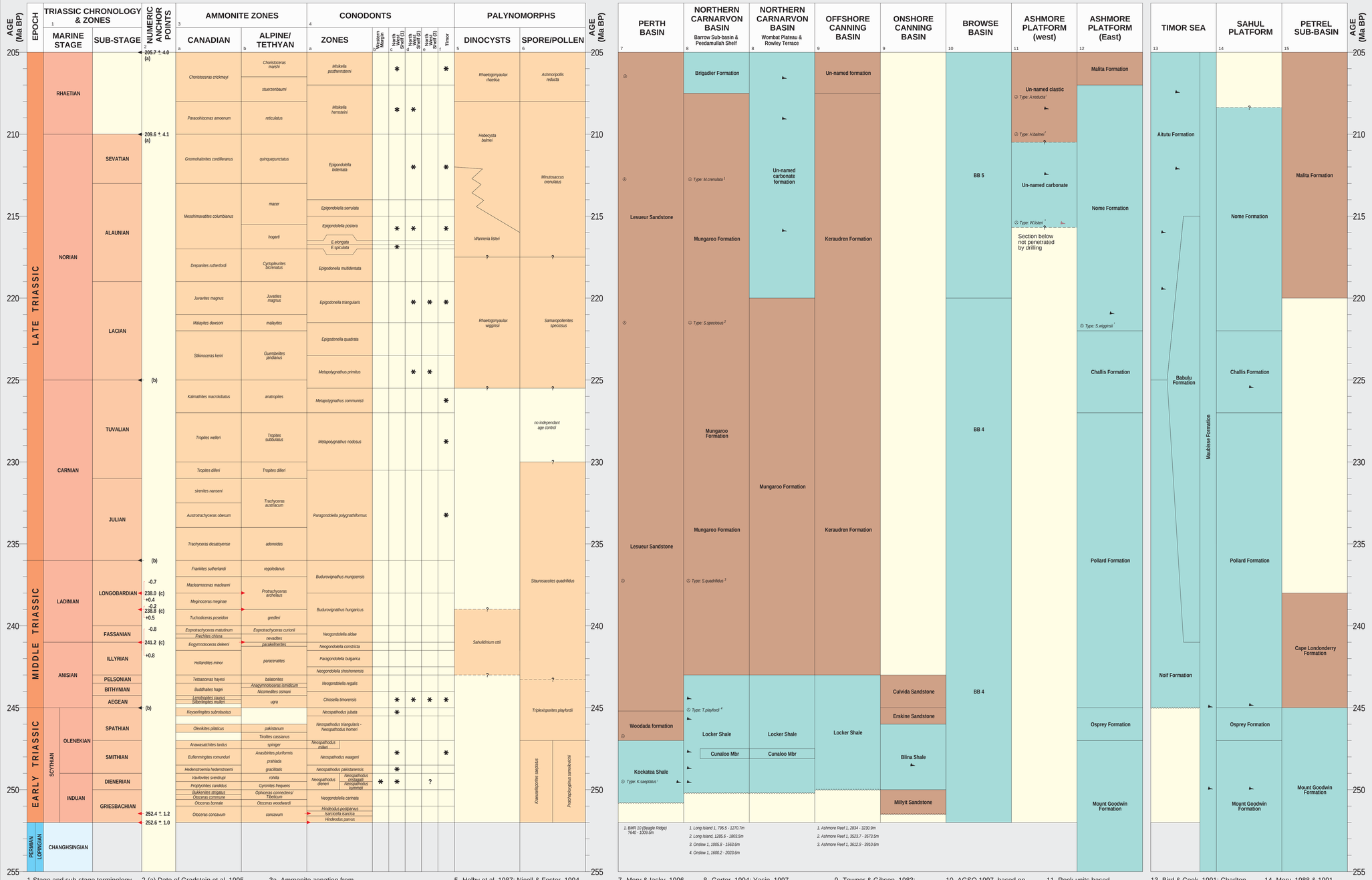
TRIASSIC BIOZONATION AND STRATIGRAPHY



1 Stage and sub-stage terminology from Gradstein et al, 1995

2 (a) Date of Gradstein et al, 1995
(b) Interpolated date - this study
(c) Dates of Mundil et al, 1996
(d) Date of Metcalfe et al, 1997

◄ ► Samples for numeric age dating from these biozones
◄ Control point

3a Ammonite zonation from Orchard & Tozer, 1997

3b Ammonite zonation from Gradstein et al, 1995

4a Conodont zonation scheme modified from Orchard & Tozer, 1997

4b-f Conodont zone recognised in area

5 Helby et al, 1987; Nicoll & Foster, 1994

6 Dolby & Balme, 1976; Helby et al, 1987

7 Mory & lasky, 1996

8 Gorter, 1994; Yasin, 1997

9 Towner & Gibson, 1983; Middleton, 1990

10 AGSO 1997, based on Browse Basin chart

11 Rock units based Ashmore Reef #1 WCR

12 Rock units based Sahul Shoal #1 WCR & Morey, 1998

13 Bird & Cook, 1991; Charlton & Wail, 1994

14 Mory, 1988 & 1991

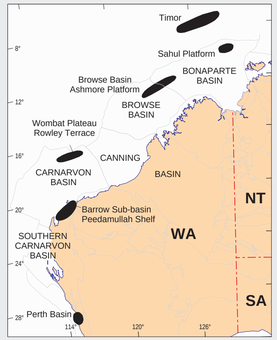
15 AGSO 1996, Petrel Sub-basin chart

Sediments predominatley of non-marine origin

Sediments predominatley of marine origin

Palynomorph

Conodont



LOCALITY MAP

AUSTRALIA

AGSO AUSTRALIAN GEOLOGICAL SURVEY ORGANISATION

Triassic Biozonation and Stratigraphy, 1998 Chart 20

Robert S. Nicoll & Clinton B. Foster

Digital compilation by N.R. Montgomerie

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Information on the timescale and biostratigraphic zonation schemes presented on these charts was compiled by the following scientists of the Australian Geological Survey Organisation

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Dr George C.H. Chaproniere	Tertiary, foraminiferids
Dr Elizabeth M. Truswell*	Tertiary, spores & pollen
Dr Samir Shafik	Jurassic -Tertiary, nannoplankton
Dr Dennis Burger*	Jurassic - Cretaceous, spores &pollen
Dr Clinton B. Foster	Permian - Triassic, spores & pollen
Dr Peter J. Jones*	Carboniferous, ostracods
Dr Gavin C. Young*	Devonian, macro vertebrates
Dr Desmond Strusz*	Silurian, trilobites & brachiopods
Dr Robert S. Nicoll	Ordovician & Triassic, conodonts
Dr John R. Laurie	Cambrian - Ordovician, trilobites & brachiopods
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The zonations presented here are from the STRATDAT Oracle database, which was developed by Dr Clinton Foster, Lynton Spencer and Bruce Wyatt under the auspices of the Australian Petroleum Systems Project, managed by Dr John Bradshaw. STRATDAT is maintained by the AGSO Phanerozoic Timescales Calibration and Development Project Team.

The zonations are plotted directly into MicroStation 95 design files, using a macrolanguage interface linked to STRATDAT. This approach gives great flexibility in layout, ease of correction and accurate translation from the database to the printed product.