EVOLUTION OF AUSTRALIAN BIOTA

Chapter 2 The evolution of Australian flora and fauna

Evidence of the evolution of Australian flora and fauna in fossils

■ gather information from secondary sources to describe some Australian fossils, where these fossils were found and use available evidence to explain how they contribute to the development of understanding about the evolution of species in Australia



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Fossils of Australian fauna and flora

Examples of some fossils of Australian animals are summarised Table 2.2.

Table 2.2 Fossils of Australian animals

Period of time (million years ago)	Where found	Fossil name	Animal group	Description
345–280	Clarencetown, New South Wales	Brachiopod (lamp shells)	Brachiopod	Small organisms, only shell visibly preserved, grooves prominent in shell, semi-circular shell shape
230	Bellambi Colliery, New South Wales	Labyrinthodont	Amphibian	Five narrow toes (unlike dinosaurs that possess three toes) with thin sharp claws, only footprint of organism preserved
225–190	Hornsby, New South Wales	Cleithrolepsis	Fish	Small size (relative to a coin), tail fin and upper and lower rear fin are prominent, head structure clear, very clear side-on view of fossil detail
110	Lightening Ridge, New South Wales	Steropodon galmani (steropodon)	Mammal	Only fossilised jaw preserved with three molar teeth

Table 2.3 Fossils of Australian plants

Period of time (million years ago)	Where found	Fossil name	Animal group	Description
410-345	Mt Pleasant, Victoria	Baragwanathia Iongifolia	Club moss	Swamp plant with small, thin, feathery- type leaves protruding from a long main stem; only leaf and stem structure are preserved
280–225	Hunter Valley, New South Wales	Glossopteris (refer to Fig. 1.4 on page 240)	Tree fern	Tongue-shaped leaves with a midrib and net venation, found in swampy habitat; only leaf structure preserved
225–190	Beacon Hill, New South Wales	Dicroidium	Tree fern	Forked-frond seed fern; good clear outline of structure of frond preserved
190–120	Gulgong, New South Wales	Pentoxylon	Pine	Kauri pine with small, long narrow leaves; only remnants of stems with leaves preserved

Note: For photographs of fossils listed in Tables 2.2 and 2.3 see Mary E. White's Australia's prehistoric plants and their environment, Methuen, 1984.