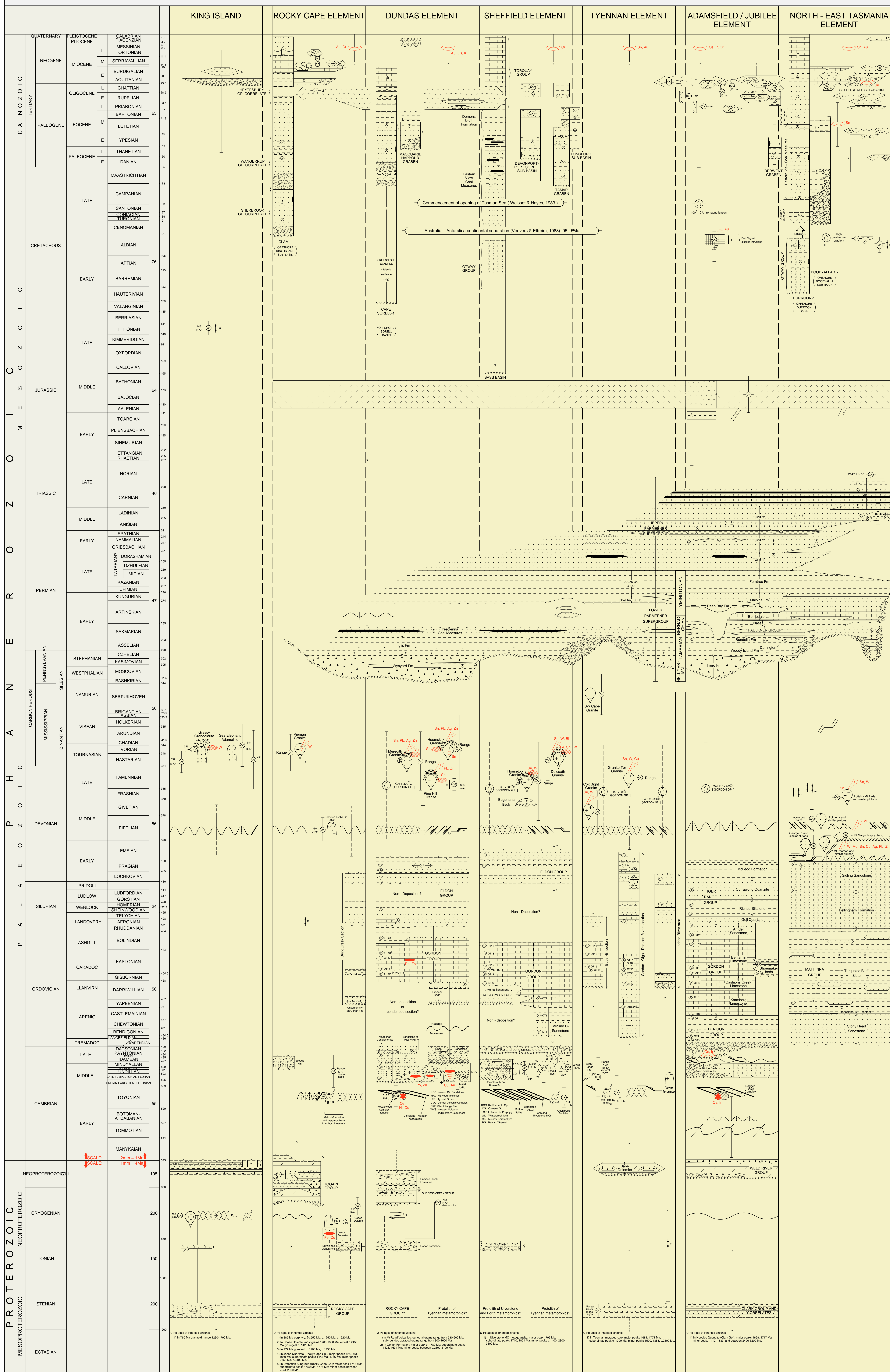




# TIME - SPACE DIAGRAM FOR TASMANIA

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VERSION 2 (31-03-1998)



<p><b>DEPOSITIONAL EVENTS</b></p> <p>Boundary Types</p> <ul style="list-style-type: none"> <li>Fault</li> <li>Unconformity</li> <li>Disconformity or low-angle unconformity</li> <li>Conformable contact</li> <li>"Disjunction" (defined as a boundary along which there is a mismatch of stratigraphy and/or structure, but along which no displacement can be proven.)</li> <li>Nature of boundary unknown</li> </ul> <p>Lithological Symbols</p> <ul style="list-style-type: none"> <li>Conglomerate</li> <li>Brassic</li> <li>Diamictite (t = tillite)</li> <li>Quartz sandstone</li> <li>Litic and/or feldspathic sandstone</li> <li>Quartz f lithic wackes, with conglomerate horizons (- - -)</li> <li>Mudstone (c = carbonaceous)</li> <li>Dominantly limestone</li> <li>Dominantly dolomite</li> <li>Felsic to intermediate volcanic rocks</li> <li>Felsic to intermediate volcanoclastic rocks</li> </ul> <p>Mafic volcanic rocks (t = tholeiitic; a = alkaline; p = picritic; qt = quartz; tr = trachyte; ol = olivine basalt; ob = olivine basalt; ba = basaltic andesite; al = alkaline lava; on = olivine neptunite; om = olivine melilitite)</p>	<p><b>TECTONO - METAMORPHIC EVENTS AND THERMAL HISTORY</b></p> <p>Metamorphism</p> <ul style="list-style-type: none"> <li>Contact</li> <li>Regional (with letter symbol denoting facies as below)</li> <li>g = greenschist</li> <li>a = amphibolite</li> <li>g-a = gradational (greenschist to amphibolite facies in this example)</li> <li>Lithological symbol for metamorphic rocks</li> <li>Folding</li> <li>Gentle warping</li> <li>Open upright or inclined, with axial plane foliation shown if present (dashed line)</li> <li>Tight upright or inclined, with axial plane foliation</li> <li>Recumbent tight to isoclinal, with axial plane foliation</li> <li>Undifferentiated polyphase deformation; number of regional deformation phases indicated</li> <li>Regional kinking</li> <li>Chaotic soft-sediment slump folding and brecciation</li> <li>Thermal Events</li> <li>Thermal event (without known significant metamorphism or structural development)</li> <li>Thermal event with temperature data, showing age of rock sequence affected, maximum temperature and temperature indicator as follows</li> <li>AI = concordant alteration index</li> <li>VR = vitrinite reflectance</li> <li>AFT = apatite fission track</li> <li>RE = Rock-Eval</li> </ul>	<p><b>TECTONO - METAMORPHIC EVENTS AND THERMAL HISTORY</b></p> <p>Faulting</p> <ul style="list-style-type: none"> <li>Faulting (arrow pointing upward denotes thrust or reverse movement, downward-pointing arrow indicates normal faulting)</li> <li>Low-angle thrust faulting (+/- ramping)</li> <li>Thrust faulting synchronous with folding</li> <li>Wrench faulting (s = sinistral, d = dextral)</li> <li>Disjunction</li> <li>Uplift</li> <li>Uplift</li> </ul> <p><b>GEOCHRONOLOGY AND BIOSTRATIGRAPHY</b></p> <p>Geochronology</p> <ul style="list-style-type: none"> <li>Radiometric date with age, error bars, and method used in dating</li> <li>&gt; (age) indicates minimum age (e.g., K-Ar date)</li> <li>&lt; (age) indicates maximum age (e.g., U-Pb)</li> </ul> <p>Biostratigraphy</p> <ul style="list-style-type: none"> <li>Age based on invertebrate macrofossil</li> <li>Age based on microfossil</li> <li>Age based on plant fossil</li> <li>Age based on spore/pollen assemblage</li> </ul>	<p><b>METALLIC MINERAL DEPOSITS</b></p> <ul style="list-style-type: none"> <li>Placer deposits</li> <li>Stockwork, vein, and shear-zone deposits</li> <li>Skarns, replacement deposits</li> <li>Massive, exhalative stratum sulphide-oxide deposits</li> <li>Disseminated deposits</li> <li>Magmatic deposits</li> </ul> <p><b>GUIDE MAP TO ELEMENTS</b></p>
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