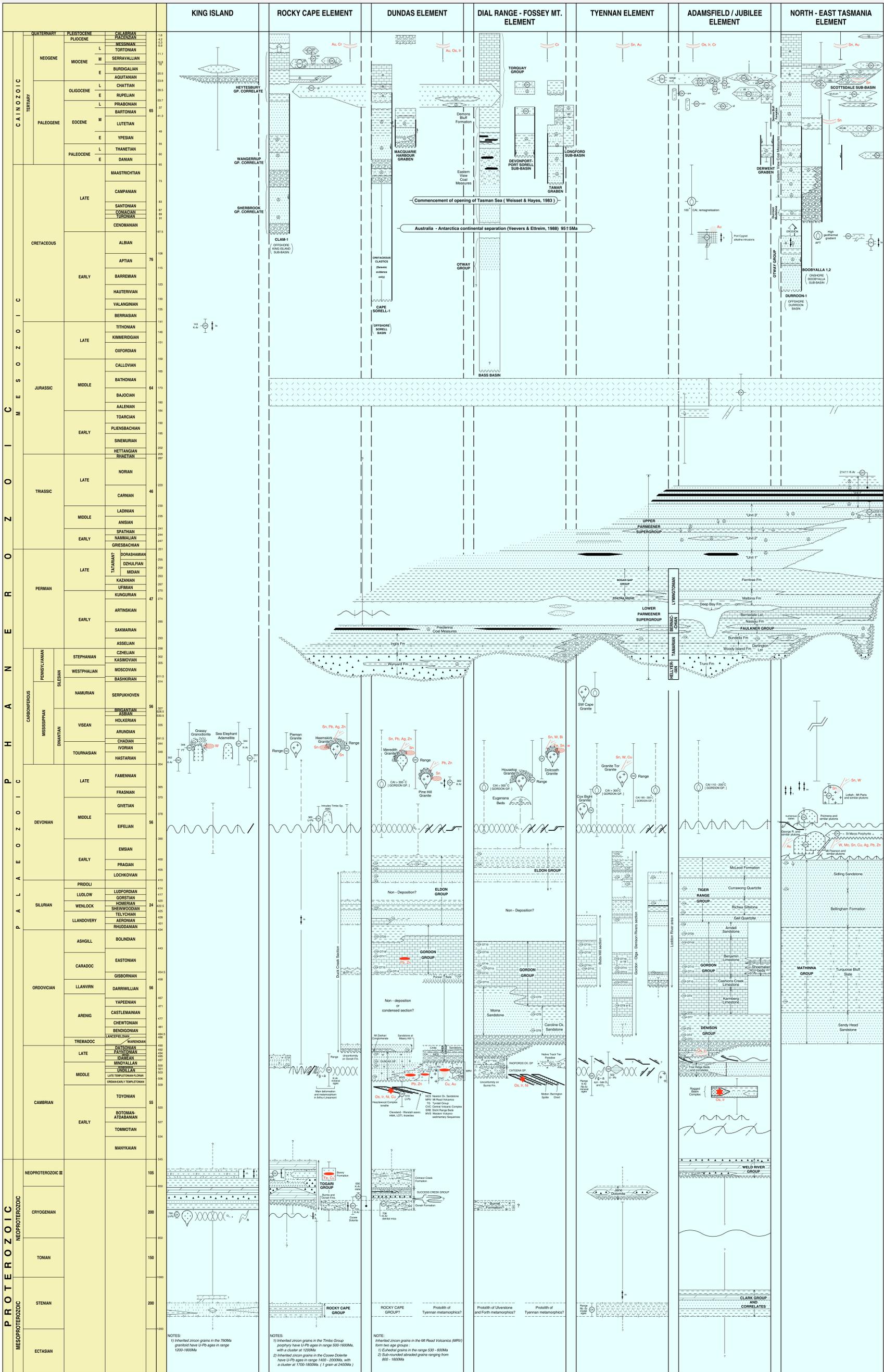


TIME - SPACE DIAGRAM FOR TASMANIA

Compiled by: D.B.Seymour and C.R.Calver



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