

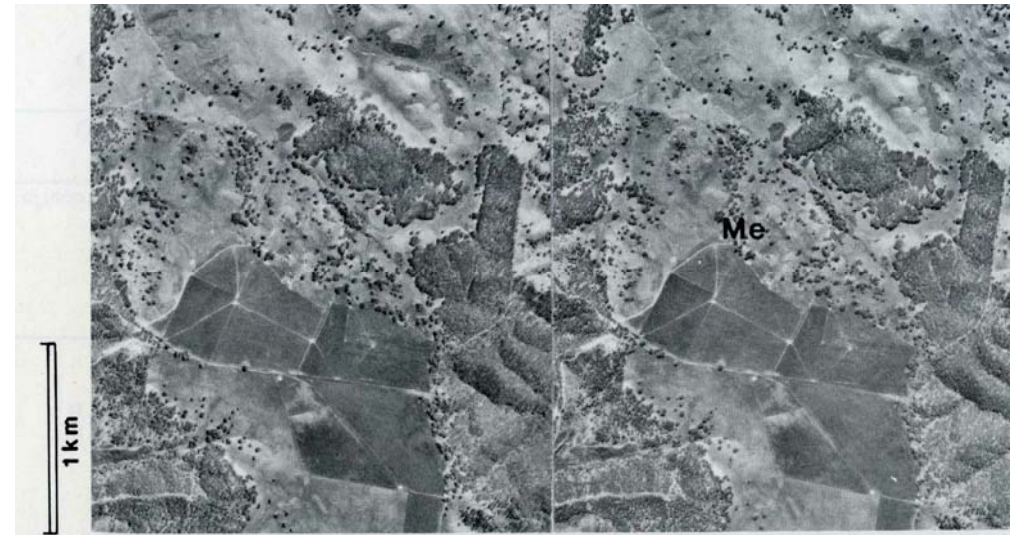
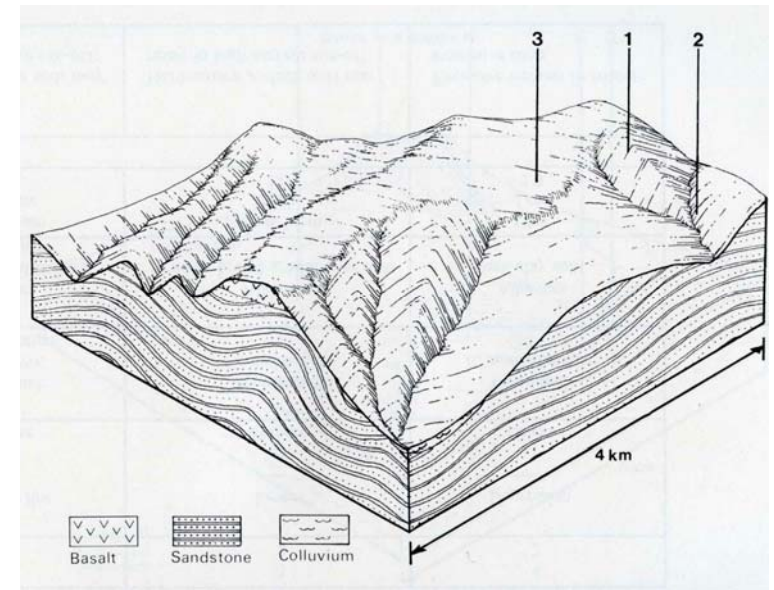
## 7.16 Myrrhee land system

The Myrrhee land system consists of the hilly divides with broad ridge-tops and small plateaux between the Fifteen Mile and Boggy Creeks and the King River valley in the north-west of the study area. Predominantly formed on Ordovician sedimentary rocks, it contains areas on Carboniferous sedimentary rocks in the north-west. Characteristically, Tertiary basalt cappings extend along the main ridge of each area. Annual rainfall ranges from moderate to high, with very occasional falls of winter snow. Summers are warm to hot and winters cool to cold. Severe frosts may be common on the plateaux.

Soils on the basalt are red gradational soils and those on non-basaltic parent materials are reddish brown gradational soils with rough ped fabric and weakly bleached reddish brown gradational soils. Weakly bleached yellowish brown gradational soils occur in poorly drained areas.

The vegetation on the basaltic areas appears to have been open forest to woodland of *Eucalyptus goniocalyx*, *E. polyanthemos* and *E. melliodora*. Elsewhere *E. macrorhyncha* is co-dominant.

The steep slopes are prone to mass-movement erosion, and extensive surface run-off from steep areas with poor pasture leads to gully erosion lower in the land system and in the adjoining Myrtleford land system.



**MYRRHEE LAND SYSTEM** Area 47 sq km

<b>CLIMATE</b> Rainfall, mean (mm) Temperature, mean (°C) Seasonal growth limitations	Annual 850-1100; lowest January (50-60), highest (120-130) Annual 12-14; lowest July (6-7.5), highest January (19-21) Temperature – less than 10°C (av): lowest areas June-August, highest areas June-September Precipitation – months less than 50% frequency of effective rain: January – February		
<b>GEOLOGY</b> Age, lithology	Ordovician greywacke, sandstone, siltstone, shale, mudstone with Tertiary basalt capping		
<b>PHYSIOGRAPHY</b> Landscape Elevation range (m) Relative relief (m)	Hills with broad crests or plateaux 300-630 150		
<b>LAND COMPONENT</b> Percentage of land system	1 55	2 15	3 30
<b>PHYSIOGRAPHY</b> Land form Position on land form Slope range (%) Slope shape	Hill - 10-25 Convex	Valley - 5-12 Concave	Plateau - 5-12 Convex
<b>NATIVE VEGETATION</b> Structure Dominant species	Open forest II <i>E. macrorhyncha</i> , <i>E. polyanthemos</i> , <i>E. goniocalyx</i> , <i>E. melliodora</i>	Open forest II <i>E. macrorhyncha</i> , <i>E. polyanthemos</i> , <i>E. goniocalyx</i> , <i>E. melliodora</i>	Open forest II to woodland <i>E. goniocalyx</i>
<b>SOIL</b> Parent material Description Surface texture Permeability Depth (m)	Colluvial mantle over bedrock Weakly bleached reddish brown gradational soils Loam High 1.5	Colluvial-alluvial mantle over bedrock Weakly bleached yellowish brown gradational soils Loam Moderate 1.5	<i>In situ</i> weathered basalt Red gradational soils on basalt Clay loam High >2.0
<b>LAND USE</b>	Mostly uncleared areas; unused, rough grazing Cleared areas; grazing, cattle and sheep		Cereal-cropping, potatoes and grazing
<b>SOIL DETERIORATION HAZARD</b> Critical land features, processes, forms	Hard-setting surface soils may result in high surface run-off if protective ground cover is depleted; sheet erosion; mass movement from slopes below basaltic areas	Hard-setting surface soils may result in high surface run-off if protective ground cover is depleted; wetness in winter; gully erosion	Highly fertile soils; thistles flourish in non-cropped areas