

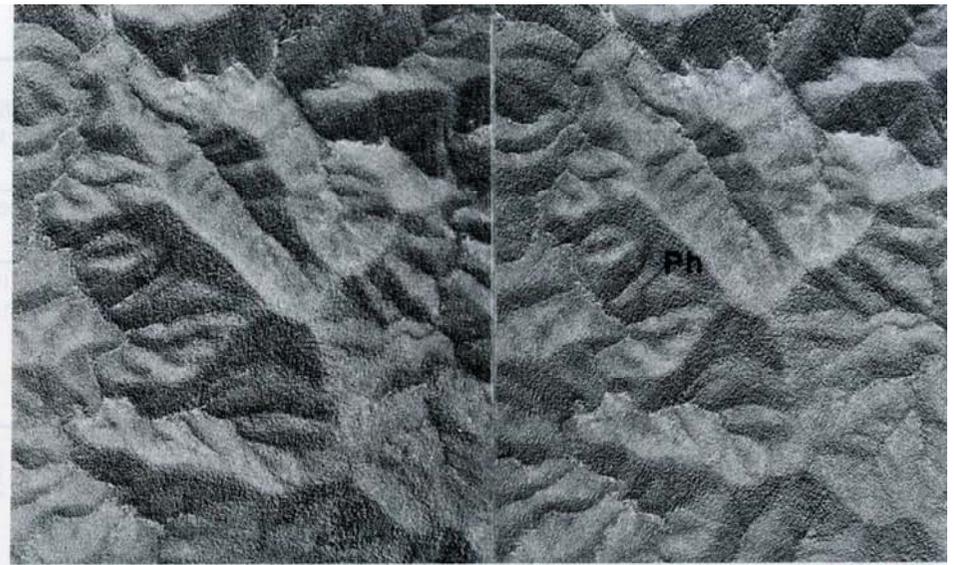
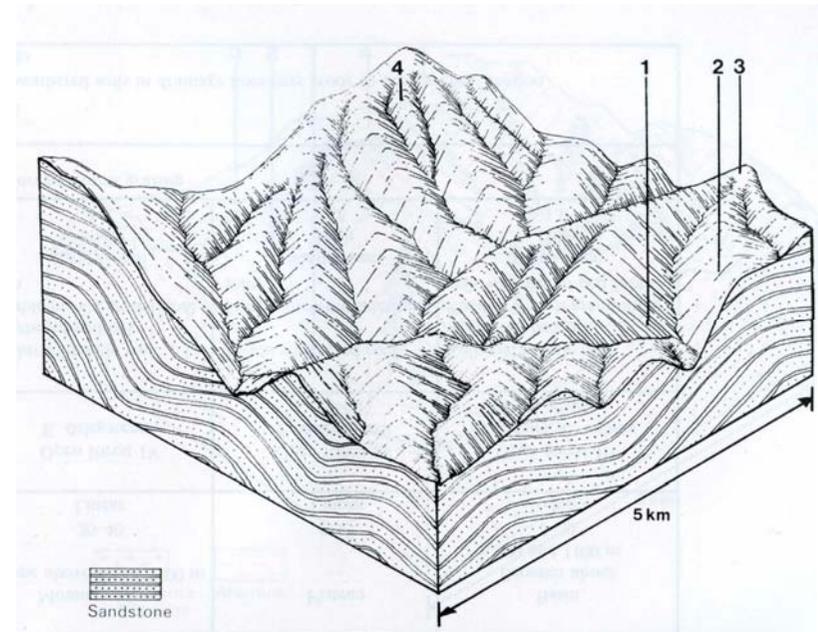
7.20 Porepunkah land system

The Porepunkah land system occupies the major part of the mountainous central and eastern part of the study area on Ordovician sedimentary rocks, where steep mountain slopes from narrow ridges and spurs and narrow valleys. Annual rainfall ranges from moderate to high, with occasional winter snow on the highest areas. Summers are usually warm to hot in the drier northern areas and cooler in the south. Winters are generally cool to cold and wet.

Weakly bleached reddish brown gradational soils predominate in the drier areas; in moister areas on the lower and less-steep slopes, reddish brown gradational soils with rough ped fabric predominate; friable brown gradational soils with very stony forms are most common on the steeper and upper slopes. Stony loam soils are typical of the narrow ridge-tops and occasionally occur on the steepest slopes.

The native vegetation is open forest of *Eucalyptus radiata* with *E. rubida* and *E. dives* with *E. rubida* or *E. macrorhyncha* on dry sites. Occasionally *E. dalrympleana* and *E. chapmaniana* occur in the higher areas and *E. viminalis* is more common in moist valleys.

The main erosion problems are associated with badly located access tracks. The soils are generally fairly stable.



POREPUNKAH LAND SYSTEM Area 156 sq km

CLIMATE Rainfall, mean (mm) Temperature, mean (°C) Seasonal growth limitations	Annual 850-1200; lowest January (45-50), highest July (120-160) Annual 12-14; lowest July (5-7), highest January (18-20) Temperature – less than 10°C (av): June-August Precipitation – months less than 50% frequency of effective rain: January – February			
GEOLOGY Age, lithology	Ordovician greywacke, sandstone, siltstone, shale, mudstone			
PHYSIOGRAPHY Landscape Elevation range (m) Relative relief (m)	Mountains – ridges and spurs 350-800 200			
LAND COMPONENT Percentage of land system	1 35	2 15	3 10	4 40
PHYSIOGRAPHY Land form Position on land form Slope range (%) Slope shape	Mountain slope Lower, drier slope 15-30 Linear-concave	Mountain slope Lower, moister slope 10-25 Concave	Mountain top Crest 25-40 Convex	Mountain slope Upper, moist slope 25-40 Linear
NATIVE VEGETATION Structure Dominant species	Open forest II <i>E. macrorhyncha</i> , <i>E. dives</i> , <i>E. rubida</i>	Open forest III <i>E. radiata</i> , <i>E. rubida</i> , <i>E. dives</i> , <i>E. viminalis</i>	Open forest II <i>E. dives</i> , <i>E. rubida</i>	Open forest III <i>E. radiata</i> , <i>E. rubida</i> , <i>E. dives</i>
SOIL Parent material Description Surface texture Permeability Depth (m)	Colluvial mantle over weathered bedrock Weakly bleached reddish brown gradational soils Gravelly loam High 0.7	Colluvial mantle over weathered bedrock Reddish brown gradational soils with rough ped fabric Loam High 1.5	Colluvial mantle over weathered bedrock Stony loam soils Gravelly loam High 0.2	Colluvial mantle over weathered bedrock Friable brown gradational soils Loam High 1.5
LAND USE	Mostly uncleared; limited timber production from better-quality forest; forest grazing Cleared areas; areas around Bright and Myrtleford have been planted to <i>Pinus radiata</i>			
SOIL DETERIORATION HAZARD Critical land features, processes, forms	Compaction of soils in intensive-use areas results in concentration of surface run-off, which can cause erosion there; protective ground cover, including any leaf litter, is important in reducing the rate of surface run-off; high rates of run-off may cause sheet erosion and contribute to gully or stream-bank erosion lower in the landscape.			