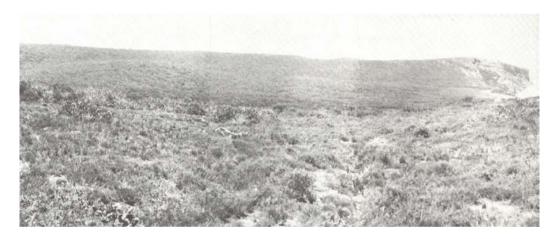
7.2 Anglesea Land System

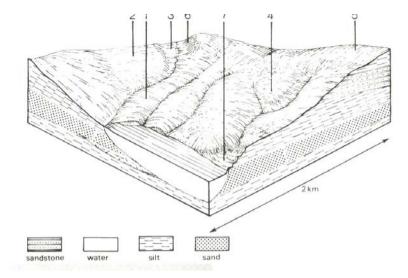
Stretching inland from the coast between Bells Beach and Moggs Creek lies a dissected plain on Tertiary sediments. Long straight slopes emanate from spurs and ridges. The coastal margins are retreating an often abut the sea in steep cliffs or massive landslips and earthflows.

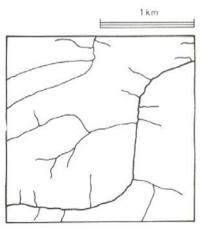
The parent material is very variable, ranging from lateritized sediments on the ridges to relatively unweathered alluvium in the drainage lines. Thus the soils are particularly variable.

In general, plant nutrient levels are low and surface horizons are weakly structured. Plant communities are mainly open forests les than 15 m in height; the height decreases towards the coast under the influence of salt-bearing winds. The area is highly regarded for its diversity of flora. Some parts have been cleared for agriculture. The main hazards to land use are gully erosion and sheet erosion.



Exposed coastal sites carry salt-pruned open scrubs that are sensitive to disturbance, and revegetation of eroded areas is difficult.





ANGLESEA	Component and its proportion of land system						
Area: 74 km ²	1	2	3	4	5	6	7
	25%	5%	10%	30%	%25%	2%	3%
CLIMATE						•	
Rainfall, mm	Annual : 600 –800, lowest January (35), highest August (80)						
	Annual: 14, lowest July (9), highest February (17)						
Seasonal growth limitations	Temperature: less than 10°C (av.) July						
	Precipitation: less than potential evapotranspiration mid October – early April						
GEOLOGY							
Age, lithology	Highly variable Eocene sediment consisting mainly of unconsolidated clayey silt, sand						
TOPOGRAPHY							
Landscape	Moderately dissected hills lying below and on the seaward side of the lateritic plateaux						
Elevation, m	0 - 195						
Local relief, m	50						
Drainage pattern	Rectangular						
Drainage density, km/km ²	1.6						
Land form	Hill						
Land form element	Exposed coastal slope	Slope, crest	Lower slop, drainage	Middle slop	Upper slope, crest	Steep slop	Landslip
		•	line	•			-
Slope (and range), %	20 (5-45)	2 (5-15)	8 (1-15)	15 (5-35)	10(1-20)	45 (25-55)	(5-90)
Slope shape	Linear/irregular	Linear	Concave	Convex	Convex	Linear	Irregular
NATIVE VEGETATION	_						
Structure	Open scrub	Woodland	Open forest	Open forest	Open forest	Open forest	Low woodland
Dominant species	E. obliqua, Casuarina	E. viminalis, E. radiata, E.	E. sideroxylon	E. sideroxylon	E. obliqua	E. obliqua, E. baxteri, E.	E. sideroxylon
	stricta, Ē. sideroxylon	baxteri	E. obliqua	E. obliqua	E. sideroxylon, E.	sideroxylon	E. obliqua
	•		_	-	baxteri		Melaleuca lanceolata,
							Casuarina stricta
SOIL							
	Calcareous sand, clay	Sand and gravel	Clay, silt and sand	Slay, silt and sand,	Deeply weathered clay,	Lateritic ironstone,	Clay, silt and sand; some
	silt, sand and gravel			sandstone	silt and sand	sandstone	aeolian sand
Description	Variable sodic duplex	Grey sand soils, uniform	Yellow-brown sodic	Yellow-brown duplex	Mottled yellow and red	Stony red gradational soils	Variable sodic duplex soils
	soils	texture	duplex soils, coarse	soils, coarse structure	duplex soils		
			structure				
	Sandy loam	Loamy sand	Fine sandy loam	Fine sandy loam	Sandy loam	Sandy loam	Sandy loam
Permeability	Moderate	Very high	Very low	Very low	Moderate	Very high	Moderate
	>2	>2	>2	>2	>2	0.2	>2
	Uncleared areas: Nature conservation; active and passive recreation; landscape conservation; gravel extraction Cleared areas: Beef cattle grazing on mainly unimproved pastures; residential; active recreation						
	Native vegetation is	Very low inherent fertility	Sodic, highly dispersible	Highly dispersible soils	Low inherent fertility,	Stony shallow soils with	Native vegetation is
HAZARD	sensitive to salt pruning	and high permeability lead	subsoils are prone to	are prone to gully and	phosphorus fixation and	low organic content, weak	sensitive to salt pruning
Critical land features,	and disturbance. Highly	to nutrient decline.	gully and tunnel erosion.	tunnel erosion. Weakly	leaching of permeable A	structure and low water-	and disturbance. Marine
processes, forms	dispersible soils on steep			structured surface soils	horizons lead to nutrient	holding capacity on steep	under-cutting of highly
	slopes are prone to sheet			over slowly permeable	decline.	slopes are prone to sheet	dispersible soils maintains
	erosion, gully erosion			subsoils on steep slopes		erosion.	active landslips and earth
	and tunnel erosion			are prone to sheet			flows.
				erosion.	1	1	İ