718252

IRONBOUND RANGE

The Ironbound Range is one of the most prominent features of the southern Tasmanian coast. Interbedded sandstone and poorly sorted conglomerate units of Precambrian age are evident on the walking track from Deadmans Bay to the crest of the range. A small glacial lake on the south eastern (upper) slopes was formed during Pleistocene times when a small ice cap occupied the top of the range (see Map 3).

Sandy clay loam to clay loam uniform soils are common, with peat forming the surface horizon in alpine sites. Soils above an altitude of 600 m often contain abundant 2 to 10 cm rock fragments which probably indicate the lower extent of periglacial solifluction activity.

Brief notes were made on the coastal habitats which cover a relatively minor area of the land system. Protected coastal positions (e. g. the western side of Prion Beach) are often covered by mixed forest with the following species; Eucalyptus nitida, E. globulus, Eucryphia lucida, Nothofagus cunninghamii, Trochocarpa sp., nitida, Cyathodes juniperina, glandulosus and Phyllocladus Coprosma Anopterus glandulosus and Phyllocladus aspleniifolius. Above Menzies Bluff increased exposure to the wind and salt spray has produced a hardy low woodland to woodland of Banksia marginata, Leptospermum sp., Olearia lepidophylla, Gahnia grandis, Monotoca glauca and Melaleuca squarrosa. Sclerophyllous vegetation extends from the plains up the more exposed eastern slopes where fires are more likely to occur. Rainforest covers other slopes of the land system and canopy heights decrease with altitude until at about 800 m scrub dominated by Nothofagus cunninghamii occurs. Moss is common on fallen logs and together with other epiphytes (e. g. *Hymenophyllum* sp. and *Grammitis* sp.) extend up some tree trunks. Large trunks and roots were found between 600 and 700 m providing evidence perhaps for an earlier taller forest than the "stunted" rainforest which presently exists. *Athrotaxis selaginoides* litter was observed at about 400 m, but no living specimens were located. The only King Billy (Athrotaxis selaginoides) observed was at about 900 m where it occurred with Olearia pinifolia, Astelia alpina, Billardiera longiflora, Leucopogon collinus and Melaleuca squamea, none of which occurred in the crest site.

A mosaic of vegetation stripes (often behind rock outcrops) formed mainly by *Eucalyptus vernicosa* and *Epacris serpyllifolia, are* usually separated by a carpet of cushion plants in exposed (crest) areas. These provide evidence of the frequent strong winds that occur at these altitudes, as do areas of feldmark where soil horizons have been exposed. Snow bank sites were not investigated during field work but higher southerly aspects may collect snow over winter. These banks may last into summer. Snow bank areas have been identified from aerial photographs immediately north of the glacial lake on the upper south eastern slopes.

Landslips and the loss of peat through burning are two soil degradation problems in the area. Landslips, which have occurred recently, appear to be confined to mid and upper slope positions. High precipitation, freeze/thaw action, and steeply dipping bedrock probably encourage this phenomenon. Neighbouring land systems which lack well developed mineral soils are not effected by landslips.

The boundary of this land system with 817251 (De Witt Range Land System) to the west, corresponds with the contact of quartzite (817251) and sandstone/conglomerate (718252) deposits. Soil profiles on quartzite have a gravelly base but are dominated by organic horizons. These soils and the associated sedgeland/heath vegetation are likely to dry out more quickly and so have a higher fire frequency than those of the Ironbound Range Land System which are dominated by clay or clay loam mineral soils with rainforest or mixed forest cover.

This land system is covered by the South West National Park. Track erosion is a problem on the southern slopes of the Ironbound Range. It is also a problem in the subalpine heaths where root exposure is common while on the crests trampling has destroyed vegetation exposing mineral substrates to erosive forces. Mineral soils which typically develop on Precambrian sediments are particularly vulnerable to rill erosion which is initiated by trampling and then extended by concentrated water flow and further trampling.

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Area(ha): 5157

Area(na): 515					
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ALTITUDINAL	300-600	300-600 APPROXIMATE ANNUAL RAINFALL (mm) 1500-2000			
RANGE (m)		2.4522.45	T	44.000.45	
	No detailed site date	9/600/SE	10/800/SE	11/900/S	
(m) /ASPECT					
TOPOGRAHY		Rugged Mountai			
Position	Lower slopes	Protected slopes and crests	Exposed upper slopes	Exposed crests	
Ty	10-20	15-30	20-30	0-10	
Proportion (%)	30	60	5	5	
GEOLOGY	Relatively unmetamorphosed Precambrian sandstone and conglomerate. Glacial features at high altitude				
NATIVE	Closed-	Closed to low	Open to closed-scrub	en to closed-	
VEGETATION	forest	closed-forest to	•	heath/ bolster	
Structure	(mixed	woodland		moorland	
Floristic	No Tasforhab data tut	Nothofagus	Nothofagus	Epacris serpyllifolia	
Association	Nothofagus cunninghamii	cunnunghamii.	cunninghamii	Eucalyptus vernicosa	
(See	dominates with	Eucryphia milliganii	Telopea truncata	Carpha curvata Richea	
Appendix 1	Aristotelia	Atherosperma	Drimys lanceolata	scoparia Orites	
for common	peduncularis,	moschatum	Baeckea	revoluta Bellendena	
names)	Anodopetalum	Phyllocladus	leptocaulis	montana Donatia novae-	
iidiiies /	biglandulosum and	aspleniifolius	Richea scoparia	zelandiae Sprengelia	
	Monotoca glauca common	Anodopetalum	R. sprengelioides	incarnata var montana	
	in the understorey.	-	1 3		
	-	biglandulosum	Bauera rubioides	Euchrasia kingii. E.	
	Eucalyptus nitida on	Anopterus	Eucryphia	hookeri Oreobolus	
	some easterly slopes and	glandulosus	milliganii Orites	pumilio Diplaspis	
	ridges.	Aristotelia	diversifolia	cordifolia	
		peduncularis	Melaleuca squamea		
SOIL Surface(A	Organic	Dark reddish brown (5	Dark brown (10 YR 3/3)	Dark reddish brown (5 YR	
or P		YR 3/2) sandy clay	sandy clay loam, often	3/2) fibrous peat over	
horizon)Colour		loam. Often with an	with an overlying organic	gravels in places	
(moist and		overlying organic	layer over dark greyish		
Subsoil (B	Yellow-brown clay	Dark brown (10 YR	hroum (10 VP 4/2) glass	Olive brown (2. 5 YR 4/4)	
horizon) colour		3/3) clay loam		sandy clay loan	
(moist) &		3,3, 31a, 13a		Sana, Sta, Isan	
Primary Profile	Uniform	Uniform	Uniform	Uniform	
form					
Depth surface	0.10	0. 10	0. 25	0. 05	
horizon(m					
Typical total	>0. 60	>0. 30	0. 25	0.30	
depth(m) Permeability	low	Moderate	Moderate	Moderate	
LAND USE		Nature conservation, recreation			
HAZARD		High track			
	M - 3 1 3	_ ·		Madagata shark saraday laga 1	
	Moderate lands	lips, moderate sheet		Moderate sheet erosion hazard	

Photo 34



The exposed upper slope component

Photo 35



The view south west from the crest of the Ironbound Range to DeWitt and Maatsuyker Islands



The boundary between the Louisa Plains and Ironbound Range Land Systems occurs between the plains and slopes/ridges.