

# ECCLES LAND-SYSTEM

Fig. 41 Landscape diagram

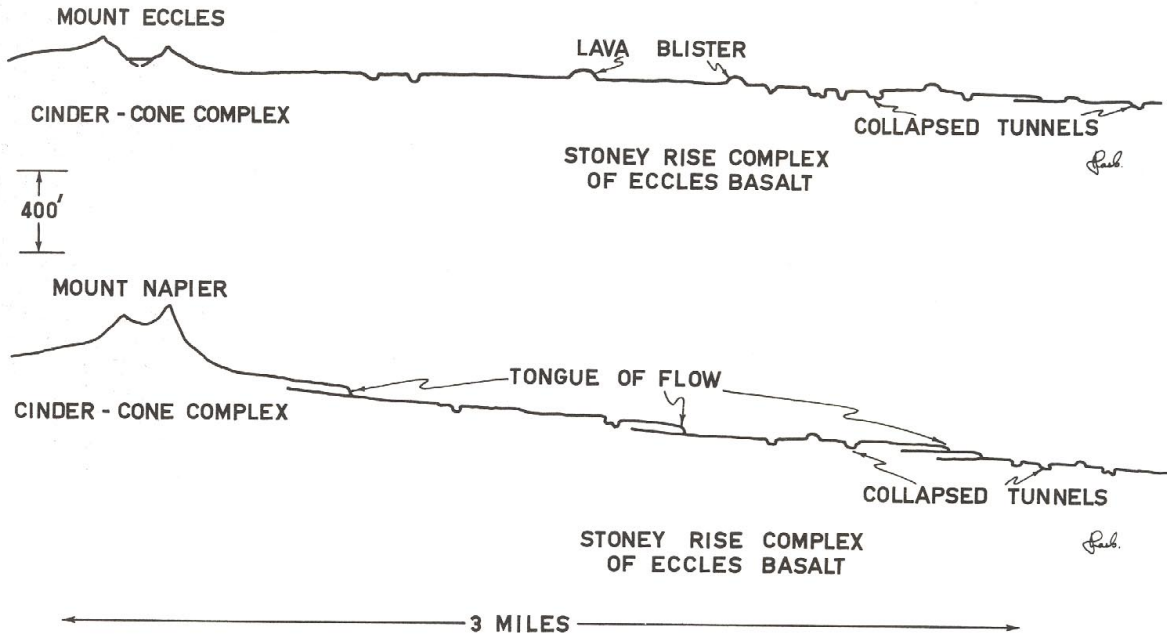


Fig. 42 Land-system diagram

Component No	1	2	3	2	4	2	1	5	4		
CLIMATE	27° to 30° average annual rainfall; marked winter incidence; warm summers, cold winters, moderate range of seasonal and daily temperatures										
PARENT MATERIAL	Eccles basalt, probably of Holocene age, and still preserving the physical features associated with extrusion and cooling										
	Moderately vesicular and blocky					Highly vesicular and scoriaceous					
TOPOGRAPHY	Land-form	Lava blister	Surface of flow			Collapsed lava tunnel	Surface of flow	Lava blister	Surface of flow	Collapsed lava tunnels	
	Position	Top				Hollows		Top		Hollows	
SOILS	Sub-group	Brown earths									
	Type, Series or Family	Dunmore organic loam	Napier stony loam			Dunmore organic loam	Napier stony loam normal phase	Dunmore organic loam			
	Features	As to right	Dark reddish-brown organic loam; moderate fine crumb structure; highly porous, abundant floaters and boulders up to 6" diameter; 4'; brown loam becoming orange clay loam at depth; weak coarse blocky structure, very crumbly; abundant boulders up to 24" diameter; at 20" in the normal phase and at less than 9" in the shallow phase, is a pavement of interlocking boulders of basalt			As to right	As to left	Black organic loam; moderate fine crumb structure; highly porous; rubble of scoriaceous basalt up to 12" diameter forming the greater part of the solum, not interlocking, and decreasing in size with depth to diameter 1"-2"; finer material gradually changing with depth to brown silty loam; 36"			
VEGETATION	Formation	(savannah woodland)					Tall woodland				
	Alliance	<i>Eucalyptus viminalis</i> - <i>E. ovata</i>									
	Association or Chief Species Present	<i>E. viminalis</i> - <i>Acacia melanoxylon</i> - <i>Exocarpos cupressiformis</i>									
	Sub-association	B. ( <i>Poa australis</i> dominant)	A. (medium bracken dominant)	C. (forbs dominant)	A. (med. bracken dominant)	A. (tall bracken dominant)	A. (med. br. dominant)	B. ( <i>Poa</i> domin.)	A. (tall bracken dominant)		
LAND-USE	Potential	Scenic and wild-life reserve					Possibly pines, and worthy of further investigation				
	Present	Sparse bush-grazing for sheep									
EROSION	Hazard	None, except possibly the washing away of soil from boulders after mechanical disturbance for planting									
	Actual	None									
PROBLEMS	Excessive stoniness precluding cultivation										

Fig 41/42 - Landscape diagram and Land-system diagram