



Fig. 53 **Treeland.** Maruia Valley, Buller; a gently sloping montane terrace having a high water table and constant flow of groundwater: mountain beech (*Nothofagus solandri* var. *cliffortioides*) / *Sphagnum australe* tree fen; palustrine.



Fig. 54 **Scrub.** Kopuatai, Hauraki Plain, Waikato; part of the fen that surrounds the bog of the Kopuatai Peat Dome (see also Figs 70, 140 and 141). Spindly manuka, 5–6 m tall, forms a mixture of shrubland (where its canopy cover is less than 80%) and of denser scrub: manuka / tangle fern - wire rush scrub fen; palustrine.



Figs 55 and 56 **Scrub.** Coromandel Harbour, Coromandel Peninsula; estuary mudflats and shell beds at two stages of the tide: mangrove (*Avicennia marina* subsp. *australasica*) scrub saltmarsh; estuarine.



Fig. 57 **Shrubland.** Longwood Range, western Southland; a hilltop bog set among silver beech (*Nothofagus menziesii*) forest: bog pine (*Halocarpus bidwillii*) / *Donatia novae-zelandiae* shrub / cushion bog; palustrine.



Fig. 58 **Flaxland.** Mahinapua, Westland; part of a swamp grading from a stream channel (foreground) to kahikatea forest (background): *Phormium tenax* - *Coprosma propinqua* flax swamp; palustrine.





Fig. 59 **Tussockland**. Lagoon Saddle, inland mid-Canterbury; moist peaty slopes leading down to peat pools in a montane valley head: red tussock (*Chionochloa rubra*) - *Hebe odora* tussock fen; palustrine.



Fig. 60 **Tussockland**. Longwood Range, western Southland (and Stewart Island in distance); shallow peatland on a poorly drained range crest, with some *Dracophyllum longifolium* shrubland, but otherwise *Chionochloa teretifolia* tussock bog; palustrine.



Fig. 61 **Tussockland**. Glenmore, Lake Tekapo, Canterbury; rolling moraine country with a gently sloping seepage in a stream head, the constantly wet valley floor having *Carex diandra* sedgeland while the more mineral and less saturated soils of the flanking slopes have *Schoenus pauciflorus* tussock seepage; palustrine.



Fig. 62 **Fernland**. Taramoa, Southland; a lowland plain domed bog, some parts of which have sufficient fern cover to be regarded as fernland: tangle fern (*Gleichenia dicarpa*) fern bog; palustrine.