

Cape Tuarakarae Scientific Reserve and surrounds: notes.

~~R27~~ 690 741 → ~~R27~~ 695 470. 13th November, 1996. Surveyed by AJT.

R28

R28

Sandflat to East of Orongorongo River

Acaena novae-zelandiae
Apium prostratum
Calystegia soldanella
Carex pumila
~~*Carex virgata*~~
Carex sp.
Cassinia leptophylla
*Centaureum erythraea**
Centella uniflora
Cortaderia fulvida
~~*Crassula peduncularis*~~
Crassula sieberiana
*Crepis capillaris**
Cyperus ustulatus
Eleocharis acuta
Eleocharis gracilis
~~*Eryngium vesiculosum*~~
Geranium microphyllum
Geranium sessiliflorum var. *novae-zelandiae*
*Hypochoeris glabra**
*Hypochoeris radicata**
Isolepis cernua
Isolepis nodosa
*Isolepis prolifer**
*Juncus articulatus**
*Juncus bufonius**
Juncus caespiticus
Juncus distegus
Juncus gregiflorus
~~*Juncus holoschoenus*~~ Ask Andrew.
Juncus maritimus var. *australiensis*
Juncus planifolius
*Lagurus ovatus**
Leptocarpus similis
Microtis unifolia
Muehlenbeckia axillaris
Oxalis exilis
~~*Plagianthus divaricatus*~~
*Plantago coronopus**
*Plantago lanceolata**
*Plantago major**
*Polygonum aviculare**
*Polygonum persicaria**

Pseudognaphalium luteoalbum
Ranunculus amphitrichus
*Ranunculus repens**
Raoulia tenuicaulis
*Rorippa microphylla**
*Rorippa nasturtium-aquaticum**
*Rumex acetosella**
*Rumex conglomeratus**
Schoenus maschalinus
Scleranthus biflorus
Sisyrinchium sp. "blue"
Thelymitra longifolia
*Trifolium micranthum**
*Trifolium repens**
*Trifolium subterraneum**
Triglochin striatum
*Ulex europaeus**

hillside above sandflat

Cassinia leptophylla
Coprosma crassifolia
Coprosma rigida
Cyperus ustulatus
*Lycium ferocissimum**
Muehlenbeckia astonii
Muehlenbeckia axillaris
Rubus squarrosus
*Ulex europaeus**

Cape Taurakare Scientific Reserve

Fern allies

Lycopodium varium

Ferns

Asplenium flabellifolium
Asplenium flaccidum
Asplenium hookerianum
Asplenium obtusatum
Asplenium olbongifolium
Asplenium terrestre subsp. *maritimum*
Asplenium sp. 'small, fleshy'
Azolla filiculoides var. *rubra*
Blechnum minus
Cyathea medullaris
Hymenophyllum sanguinolentum
Hypolepis ambigua

Pellaea rotundifolia
Polystichum richardii
Polystichum vestitum
Pteridium esculentum
Pyrrosia eleagnifolia

Dicot. trees and shrubs

Brachyglottis repanda
Carmichaelia australis
Cassinia leptophylla
Coprosma crassifolia
Coprosma propinqua
Coprosma repens
Coprosma rhamnoides
Coprosma rigida
Corynocarpus leavigatus
Cyathodes juniperina
*Erica lusitanica**
Griselinia lucida
Leptospermum scoparium
Macropiper excelsum
Melicytus crassifolius
Melicytus ramiflorus subsp. *ramiflorus*
Muehlenbeckia astonii
Olearia paniculata
Olearia solandri
Plagianthus divaricatus
Pseudopanax arboreus
*Ulex europaeus**
Urtica ferox

Dicot. lianes

Clematis foetida
Clematis forsteri
Clematis paniculata
Muehlenbeckia axillaris
Muehlenbeckia complexa
Parsonsia heterophylla
Rubus squarrosus

Dicot. herbs

Acaena novae-zelandiae
Aciphylla sp. aff. *squarrosa*
Apium prostratum
*Bellis perennis**
*Callitriche stagnalis**
Calystegia soldanella
Cardamine debilis agg.

*Centaurium erythraea**
Centella uniflora
Colobanthus muelleri
*Cotula australis**
Cotula coronopifolia
Craspedia uniflora
Crassula kirkii
Crassula moschata (rock stack)
Crassula peduncularis
Crassula sieberiana (pink, sandflat and rocks)
*Crepis capillaris**
Daucus glochidiatus
Dichondra brevifolia
Dichondra repens
Epilobium billardioreanum
Eryngium vesiculosum
*Fumaria muralis**
*Galium aparine**
Geranium microphyllum
Geranium sessiliflorum var. *novae-zelandiae*
*Glaucium flavum**
Haloragis erecta
Hydrocotyle heteromeria
Hydrocotyle moschata
Hydrocotyle novae-zelandiae
*Hypochoeris glabra**
*Hypochoeris radicata**
Leptinella squalida
Lilaeopsis novae-zelandiae
Linum monogynum
Myosotis laxa var. *caespitosa**
Oxalis exilis
*Parentucellia viscosa**
Parietaria debilis
*Plantago coronopus**
*Plantago lanceolata**
*Plantago major**
*Polygonum aviculare**
*Polygonum persicaria**
Pseudognaphalium luteoalbum
Ranunculus acaulis
Ranunculus amphitrichus?
Ranunculus reflexus?
*Ranunculus repens**
*Ranunculus sardous**
*Ranunculus trichophyllus**
Raoulia australis
Raoulia tenuicaulis

*Rorippa microphylla**
*Rorippa nasturtium-aquaticum**
*Rumex acetosella**
*Rumex conglomeratus**
*Rumex flexuosus** ← Ask Andrew T.
Salicornia australis
Samolus repens
Scleranthus biflorus
Sellieria radicans
*Senecio bipinatasectus**
*Senecio jacobaea**
Senecio lautus
*Stellaria media**
Tetragonia trigyna
*Trifolium micranthum**
*Trifolium repens**
*Trifolium subterraneum**
Wahlenbergia sp.

Monocot. trees and shrubs

Cordyline australis
Phormium cookianum
Phormium tenax

Rushes

*Juncus articulatus**
*Juncus bufonius**
Juncus caespiticus
Juncus distegus
Juncus gregiflorus
~~*Juncus holoschoenus*~~ — Ask A. Townsend
Juncus maritimus var. *australiensis*
Juncus planifolius
Luzula picta

Sedges

Baumea juncea
Baumea rubiginosa
Baumea teretifolia
Carex geminata
Carex pumila
Carex secta
*Carex virgata**
Carex sp.
Cyperus ustulatus
Eleocharis acuta
Eleocharis gracilis
Isolepis cernua

Isolepis nodosa
Isolepis prolifer
Lepidosperma australe
Leptocarpus similis
Schoenoplectus pungens
Schoenus maschalinus

Grasses

*Agrostis capillaris**
*Anthoxanthum odoratum**
Cortaderia fulvida
*Dactylis glomeratus**
Echinopogon ovatus
Lachnagrostis richardii?
*Lagurus ovatus**
*Lolium perenne**
Microlaena stipoides
Poa anceps
Poa laevis
Rytidosperma gracile
Rytidosperma unarede

Orchids

Bulbophyllum pygmaeum
Dendrobium cunninghamii
Earina mucronata
Microtis unifolia
Pterostylis banksii
Thelymitra longifolia

Other Monocots.

Potamogeton pectinatus
Sisyrinchium sp. "blue" *
Triglochin striatum
Typha orientalis

174 taxa

* indicates adventive species

Notes

One plant of *Muehlenbeckia astonii* @ R27 697 740 on hillslope occurring with *Cassinia leptophylla*, *Coprosma rigida*, *Coprosma crassifolia*, *Muehlenbeckia axillaris* and *Rubus squarrosus*. Also *Muehlenbeckia astonii* @ R27 696 746, R27 695 474 and R27 694 748 growing on footslope and terrace flats, amongst pasture, *Muehlenbeckia complexa*, *Muehlenbeckia axillaris*, *Cassinia leptophylla*, *Coprosma rigida* and *Coprosma crassifolia*.

articulatus

Juncus holoseboenus growing in a primary parallel dune wetland amongst *Isolepis nodosa*. Sedgeland of (*Isolepis nodosa*)- (*Cyperus ustulatus*)/ *Eleocharis gracilis*- isocal. also *Ranunculus amphitrichus*, *Holcus lanatus*, *Plantago lanceolata*. Gorse and *Lycium ferocissimum* present about 30m away. Grazed by sheep. wetland being encroached by unstable sand; vehicle tracks. not likely to be drained. R# 693 743.

²⁸
Crassula peduncularis occurring in a wetland @ R# 696 740. Secondary parallel dune wetland. Immediately adjacent to old track, in a tarn with a turf of scattered plants of *Crassula peduncularis* with *Polygonum persicaria* (a) *Eleocharis gracilis* (o), *Juncus planifolius* (o), *Centella uniflora* (c), *Juncus gregiflorus* (re), *Isolepis cernua* (l), *Eryngium vesiculosum* (c). Ephemeral. Previous record (deLange & Silbury) ~ 300 metres to north in tertiary parallel dune wetland. weeds major threst: *Polygonum persicaria* very dense in places. drainage: small drains have been pushed through the wall (old beach) between the wetlands. Area is grazed by sheep. *Crassula peduncularis* was not found in any adjacent wetlands.

²⁸
Crassula peduncularis occurring in scientific reserve (in flower) @ R# 708 731. In a small semi-dry pond in the track. It is abundant in the turf, occurring with *Polygonum persicaria* (a), juvenile *Cyperus ustulatus* (o), *Juncus articulatus* (o), *Isolepis cernua* (o), Sycblu (s). area is about 9 m × 3 m². *Juncus gregiflorus* and *Carex* sp 'black caterpillar' are scattered emergents. Area is grazed, but does not appear to be negatively affecting *Crassula peduncularis*. Weeds may cause future problems, but at present doing well.

Unusual fern: *Aplenium* sp. On East-facing rock outcrops in the scientific reserve @ R27 701 726. Very fleshy, small (lvs up to 50mm), fruiting (unusual soral arrangement).

²⁸
Leptinella dioica subsp. *monoica* @ R# 701 727. Forming a turf with *Juncus articulatus*, *Hypochoeris radicata*. Scattered sycblu, *Ranunculus amphitrichus*, *Centella uniflora*, clover and moss. *Isolepis nodosa*, *Cyperus ustulatus*, and *Juncus gregiflorus* are emergent. Sheep-grazed. Major threat is competition from emergent spp.

²⁸
Rubus squarrosus @ R# 703 730, growing through *Cassinia leptophylla* on a rock stack. Also noted at R# 696 742, on hillslope with *Coprosma rigida*, *Coprosma crassifolia*, *Muehlenbeckia axillaris* and *Muehlenbeckia astonii*.

Crassula sp. 'rock stack'. Growing in a South-facing crack 7 metres up a rock stack, where it is the only plant: R# 699 729. Population does not appear to be threatened. Also occurring in a wetland and open water @ R# 704 726. Here it occurs under *Cyperus ustulatus* and *Plagianthus divaricatus* in a *Ranunculus acaulis-Hydrocotyle novae-zelandiae*- *Crassula* turfland.

²⁸
Unusual grass from the littoral zone R# 703 725, forming scattered clumps amongst *salicornia*.

Littoria raniformis noted in ponds in scientific reserve. Also common skink.