

July 20/91
Tuxada

76
UTM

103925Z0E 5506520

49°42'06"N

124°28'36"W

Others in bog

Drosera rotundif

D. anglica #2838

Rhyndespora alba

Hypericum formosum

Dolichium amurensis

Trientalis arctica

Viola palustris

Mangavares trifoliae

Oxycoates oxyacanthae

Erythronium americanum

Kalmia polifolia microphylla

Carex stans

Typha latifolia

dryands *Scutellaria galericulata*

Lycopus uniflorus

Bonica involucrata

Shore below Mono Lake

obs

Piperia
Polygonatum elegans

obs. on rocks *Rapistrum densum*

July 20/97
Texas

July 20/97 (KT, PT, MF)
2839

< *Ceratostylis minima* 2839
Mount Point, south end Mount Gray
vernal pool in rock ridges
(lava flow, basalt)

Aspect 205°S

Slope 5%

Elev. 20m

27 UTM (0396610E 5497340N

Lat/long $49^{\circ}37'11''N \times 124^{\circ}25'53''W$

Notes: 350 plants in vernal pool
w/ *Plantago elongata*,
around edges of pool *Panicum occidentale*,
Bromus tectorum, *Geranium canotianum*, *Grevillea integrif.*,
Dactyloctenium ciliatum, 2nd pool 100p.

obs Vernal pool one down from above

Dodecatheon pulcherrima

Coll on vernal wet spots on rock ridges
habitat/loc etc as #2839

Linguaia canadensis var. *texana* 2840
w/ *Bromus tectorum*, *Panicum occid.*, *Terranea c.*, *Dactyloctenium c.*

2841
Minuartia tenella

Mount Point, cracks of ledges in open rock
on point

Cm.
site 2

obs

addition to # 2839

Centaurium minus

same habitat & loc

elev 10 m slope 45%

200 plants in vernal water flow
w/ *Mimulus guttatus*, *Panicum occidentale*
& *Grindelia integrifolia*, *Plantago*
douglasii

obs

at shore line

Orobanchace californica

obs

single vernal pool

several hundred

Sagina crassicaulis

addition to # 2839

obs

Centaurium minus

vernal seep same exp/ loc

elev. 4 m 300 plants w/

Mimulus guttatus, *Dodecatheon p.*
pulchellum, *Geranium canadense*

vernal pool at 1 m above high tide line

30 cm x 30 cm pool 20 plants

Callitrichia heterophylla 2842

no associates UTM 10396105E 540750N

July 20/97
Texada

obs

Centromalus minimus addit. to #2839
same loc & habitat elev. 5m above
high tide line

C.M.
site 4

120 plants w/ *Veronica peregrina*
Fragaria coronaria, *Panicum occidentale*

July 20/97 HT, PJ, MF
2843

Isoetes mertensii

2843

SE of Mowat Pt

vernal pool in rocks at high tide
line, organic substr.

aspect 200°

slope - 1%

elevation 2m

78 UTM 10 396405 E 5497350 N

Lat/long $49^{\circ}37'11''N \times 124^{\circ}26'03''W$

notes: 2 plants in small pool w/ *Eriocaula contracta*
sides *Mimulus guttatus* grasses ~~and~~ *Kochia*

~~and~~ *Agrostis* sp. (~~and~~ *Exacum*)

tuffs in ~~near~~ pool off water course

~~Kochia cristata~~

2843

habitat etc as #2843

Agrostis exarata

2844

July 20/97
Torada

July 20/97 HT, PT, MF

2845

Canex fera

SE of Monson Pt

moist overice on rock

aspec 200°

slope 0

elev 3m

UTM 10 396720E 5497240N

lat long $49^{\circ}37'08''N \times 124^{\circ}25'23''W$

note: 50 plants in 50cm x 10cm
dept in rock just above high
tide line w/ *Panicum occidentale*
Festuca rubra & *Hypochaeris radicata*

obs

Centaurium minimum

150 in vernal pools and water course

loc of habitat same elev 3m

w/ *Panicum occidentale*, *Mimulus*
guttatus, *Grindelia integrifolia*

2 sites

10ms

(A)

Aug 20/97
Toxada at

August 20/97
Toxada Island

Aug 20/97 HJ, RJ, JJ

762 JJ

wf9

Obs

JJ has voucher

for all #JJ

Woodwardia fragilis

slopes above sea NW of Griffies Bay

Steep draw in second growth
of seepage

aspect 215°

slope 35° - 70% (real steep)

elev. 20m

UTM 10 391 897E 5503139N

lat / long $49^\circ 40' 16'' N \times 124^\circ 29' 52'' W$

Note: 45 plants, large clump 10m x
6m w/ 10 separate plants
down slope. Clump all large
mature, down slopes all
young 2-5 yrs.

Dense 2nd growth Fd forest
closed canopy 2.5m w/ some

Arbutus menziesii

C layer Gaultheria 5%

Pteridium + Lonicera hispida +

Berberis nervosa +

(55)

obs

Wf6

92F.068.

scm 30% sl S35W

single. Wf at top of ravine

30 m N ~~E~~ of 762 JJ

habitat NW same as 762JJ

Middle age 10 ~~392~~ ³⁹¹ HAE 5503347N

391880 5503310

GPS diff = 238 m

Oligo/97 HD, P.I., ~~EE~~

2846

Boschniakia hookerii

slopes above sea NW of G. Nicobar

dry douglas fir/Salal forest

aspect slope 220°

slope 25° / 45%

elev 10m

✓ UTM 10 391752E 5503366N

lat long 49°40'21"N

124°30'02"W

note: 50 plants scattered over
30x30m area w/
Rubus ursinus, *Pteridium* agg.,
Kinneya oregana

Aug

~~Aug~~ 20/97 HJ, PJ, JJ

763 JJ

Aug 20/97
EXACTA I

WF 10

Woodwardia fimbriata

slopes above sea NW of Gullies Bay
seepy hollow on steep slope
in Douglas fir forest

Aspect 235° SSW

Slope 35° / 70%

Elev 30m

UTM 10391 ~~34E~~ 5503 ~~71N~~

Lat/Long $49^\circ 40' 34'' N \times 124^\circ 30' 20'' W$

Notes: 10 plants, 7 mature 3 immat.

Closed canopy Fd, 30m C layer

Polygonium minimum, *Pristimantis ag-*

Rubus ursinus, *Festuca subulata*

Hedysarum occidentale, *Melicytus* canopy

~~Acetosella~~ macro. & *Thuya plicata*

Aug. ~~Aug~~ 20/97 HJ, PJ, JJ

764 JJ

WF 11

Woodwardia fimbriata

as above # 763 JJ except

Slope 50° / 120%

Elev 20m

UTM 10391 340E 5503 712N

Lat/Long $49^\circ 45' 25'' N \times 124^\circ 33' 50'' W$

Note closed canopy Fd forest 30m w/ *Equisetum*
hyemale

notes: 3 places - 4 immature
cauln shrub areas w/ seepage
Moore Fd forest 40m, w/ Alnus rubra & Acer
Equisetum hyemale, Rosa gymnocarpa
Holodiscus discolor, Alnus rubra

obs

Wfot

Woodwardia fimbriata

40m NW of 264JT

same habitat etc except

slew 30m

notes: 7 moore places in seepy
cauln shrub bowl. Fd forest
30m w/ Petasites frigidus,
Polygonatum multiflorum, Holodiscus
discolor, Alnus rubra

30 120 550W

100 391³¹⁰ 5504024

Aug ~~20/99~~ 20/99 HJ.PJ Tonilia gaponica?
~~Anthriscus caeruleus~~ or averse
2847

main road north of Vananda
5pm,

seepy roadside bank

aspect 40° NE

slope 5° / 9%

Aug 20/97
Taxada

05 elev: 50m

UTM: 10 387386E 5512959N
Lat/lon 49°45'10"N x 124°34'18"W

notes: weedy roadside w/ *Rubus parviflorus*

Petasites frigidus, *Rubis discolor*

Potentilla argentea 15 plants

(earlier, obs other roadside of motel yard
total thousands of plants)

Aug.

~~Obs~~

~~20/97~~ +5, RT, ST ~~Wf 12~~

~~coll #~~ ~~obs~~ 765JJ

Woodwardia flabellaria

main rd N of Vananda
steeply disturbed roadside bank

aspect N40E

slope 10° / 18%

elev 50m

960

UTM 10 386 ~~705~~E 5512318AS

Lat/lon 49°45'10"N x 124°37'30"W

03 92F.07G

notes

steep roadside w/ *Adiantum pedatum*
Rubus parviflorus *Polygonatum* in
Petasites frigidus

6 plants along 150m of roadside
one clump of 4, 2 singles
all mature, large crowns
no immatures observed.

59

Aug.

~~Aug~~ 20/97 HJ, PJ, JT

Aug 20/97
Terada

km 3.7

766 JT

WF 13

Woodwardia fimbriata
Crescent Bay RD
disturbed road side

aspect 285° N75W

slope 40° / 85%

elev 60 m

UTM 10 382 791 E 5512405 N

Lat Lang $49^\circ 39' 27'' \text{N} \times 124^\circ 27' 50'' \text{W}$

01

92F.077

note: 16 plants ~4 immature
on roadside disturbed area only
under Fd, Hw, Cw w/ Gaultheria
shallan, Rubus parvifloros, Vaccinium
ovatum

WF 13

obs at 200m South on RD additional W.f.
3 plants same habitat
5 immature

obs loss of Smilacina stellata roadside
ditches n of Vananda

11 hrs

(6)

3 areas 7 sites

Aug 21/97
Texada I

Aug 21/97

Texada

Aug 21/97 HJ, PJ, OJ
2848

Potamogeton procerus
first lake

2-3 m deep open lake ~~& Neptune polys.~~

aspect -

slope -

elev 390m

UTM 10 401 980E 5499934N

Lat/Lon 49°38'38"N x 124°21'28"W

Notes: ~~500 plants in 3 stands~~

~~each~~ 200 in open areas of
lake - some mixed w/ *Potamogeton*
noratus but mostly w/ no associates
to 2 m deep

Aug 21/97 HJ, PJ, OJ

2849

Glyceria borealis
first lake

1 m deep open lake w/ Neptune polys.

Aspect - Lat/Lon etc as # 2848

(61)

Notes: 500 plants in 3 clumps w/ Neptune p.
Utricularia vulgaris, *Potamogeton pusillus*

check coll

Potamogeton pusillus ✓

Aug 21/97
Texas Hill Country

Aug 21/97 AT, PT, JT
2850

first lake Sparganium natans
silty lake bottom 1-2 m (= minimum)

Aspect etc as # 2848

Notes 20x20 m patch on bottom

w/ ^{pure} Potamogeton natans

Aug 21/97 AT, PT, JT
Najas flexilis
2851

first lake

silty lake bottom 1-2 m

Aspect etc as # 2848

Notes: Wide spread over shallow parts

of 3 ha open lake area w/

Nuphar, Potamogeton natans &

Potamogeton pusillus

Aug 21/97 HJ, PJ, JJ
#2852

Utricularia gibba

First Lake

shallow slough off side of lake
10 cm water

Aspect -

Slope -

elev 390 m

UTM 10 401732E 5500 070N

Lat/Lon $49^{\circ}38'43''N \times 124^{\circ}21'40''W$

NOTES 200-300 plants in shallow sloughs

w/ *Chara* sp., *Potamogeton gramineus*

Spongium ~~200 mm~~, *Mugwort*

Polygonum ~~200 mm~~, *Horsetail*
Utricularia minor

Obs

Gallionia ovatifolia

Potamogeton epihydrus

road crosses hydro line cut: 40077.1 ~~1/2~~ mi

Obs

Aug 21/97

Ophioglossum possum

1000+ plants in disturbed drainage

5.5 km S of Hydro
cut

channel Angel Cabey ^{on} R) Cook Bay

(63)

spur

aspect 145°

slope 5° / 9%

elev 580m

UTM CO 407403E 5493930N

Lat / Long 49°35'27"N x 124°16'52"W

notes

associates: *Sisyrinchium californicum*,
Senecio pauperulus, *Tinus falconis*,
Torreydiala paniculata, *Boryrichia multifida*

obs

Saxifraga strachani

Primula andromedea

Obs

July 21/97 Obs only wall #
Melaxis monophyllos

5.5 km from
Hydro cut on Anderson

Cook Bay Rd (post off Angel Lake Rd)

Br. Rd. 2km down
Cook Bay Rd.

aspect etc as far prev # obs above
obs of *Ophioglossum* this page

note: ³ ~~single~~ plants seen w/

Typha latifolia, *Ledum groenlandicum*

Senecio pauperulus, *Hypoxis formosana*

Mimulus moschatus

(64)