Province of British Columbia — Ministry of Energy, Mines and Petroleum Resources

Energy, Mines and Resources Canada — Énergie, Mines et Ressources Canada

THIS PROJECT IS A CONTRIBUTION TO THE CANADA/BRITISH COLUMBIA MINERAL DEVELOPMENT AGREEMENT, 1985-1990.

PROVINCE OF BRITISH COLUMBIA
Ministry of Energy, Mines and Petroleum Resources
GEOLOGICAL SURVEY BRANCH
OPEN FILE 1988-8

GEOLOGY OF THE DUNCAN AND CHEMAINUS RIVER AREA

NTS 92B/13 AND 92C/16E

Scale 1:50 000 Échelle

miles 1 0 1 2 3 miles
Metres 1000 0 1000 2000 3000 4000 Mètres
Yards 1000 0 1000 2000 3000 4000 Yards

Geology by N.W.D. Massey, S.J. Friday, P.E. Tercier and T.E. Potter, 1987

Compilation by N.W.D. Massey

This map includes data compiled from maps and reports from the following sources:

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Lefebure, D.V., 1985, Mt. Sicker Project, Lieberman Option, Corporation Falconbridge Copper (Minnova Inc.); *B.C. Ministry of Energy, Mines and Petroleum Resources*, Assessment Report 13907.

Mallalieu, D.G., and Hendrickson, G., 1985, Saltspring Island, Kidd Creek Mines Ltd., 1985, *B.C. Ministry of Energy, Mines and Petroleum Resources*, Assessment Report 13996.

plus unpublished material from T. England, C.J. Yorath, G. Allen and Falconbridge Ltd.

LEGEND

INTRUSIVE ROCKS

H — MINOR INTRUSIONS (?Jurassic): *hornblende-feldspar porphyry*

EARLY TO MIDDLE JURASSIC

Ji — ISLAND INTRUSIONS: *diorite, granodiorite, quartz diorite often with abundant xenoliths, aplite*

LATE TRIASSIC

Ti — SILLS AND DYKES: *diabase and gabbro (coeval with Karmutsen Formation)*

LATE DEVONIAN

SALTSPRING INTRUSIONS: *granodiorite and feldspar porphyry (S), quartz-feldspar porphyry (Q)*

VOLCANIC AND SEDIMENTARY ROCKS

UPPER CRETACEOUS

NANAIMO GROUP

Kcd — CEDAR DISTRICT FORMATION: *argillite, siltstone*

Ke — EXTENSION-PROTECTION FORMATION: *boulder and pebble conglomerate, sandstone*

Kh — HASLAM FORMATION: *argillite, siltstone, shale and minor sandstone*

Kc — COMOX FORMATION: *boulder and pebble conglomerate, sandstone and minor siltstone*

LOWER JURASSIC

JB — BONANZA GROUP: *feldspar basalt, andesite, dacite, tuff, sandy tuff, crystal tuff, lapilli tuff and breccia, with minor argillite and sandstone*

UPPER TRIASSIC

VANCOUVER GROUP

Tp — PARSON BAY FORMATION: *laminated siltstone, argillite, tuff, floggy and biohermal limestone*

Tq — QUATSINO FORMATION: *massive and bedded micrite, bioclastic micrite, laminated tuffaceous argillite and siltstone, hyaloclastite with limestone clasts*

Tk — KARMUTSEN FORMATION: *pillowed and massive basaltic flows, hyaloclastite and hyaloclastite breccia*

?MIDDLE DEVONIAN TO LOWER PERMIAN

SICKER GROUP

PSmm — MOUNT MARK FORMATION: *crinoidal limestone, bedded limestone, marble, chert, cherty argillite and siltstone*

PSc — CAMERON RIVER FORMATION: *ribbon chert, cherty tuff, graphitic argillite, intercalated thinly bedded sandstone, siltstone and argillite, epiclastic sandstone, conglomerate*

PSm — MCLAUGHLIN RIDGE FORMATION: *thickly bedded tuffite and lithic tuffite, feldspar-crystal tuff, heterolithic lapilli tuff and breccia, quartz-feldspar crystal tuff, rhyolite, dacite, laminated tuff, jasper and chert*

PSn — NITINAT FORMATION: *pyroxene-feldspar phyric agglomerate, breccia and lapilli tuff, massive and pillowed flows, massive tuffite and lithic tuffite, laminated tuff, jasper and chert*

SYMBOLS

- Geological contact (defined, approximate, transitional)
- Limit of drift covered area
- Bedding (horizontal, inclined, overturned)
- Bedding estimated from pillows (inclined)
- Schistosity and cleavage (inclined, vertical)
- Lineation (inclination indicated)
- Axis of minor folds (plunge indicated)
- Fault (defined, approximate)
- Thrust fault (defined, approximate, assumed) teeth indicate upthrust side with dip indicated
- Anticline (with plunge indicated)
- Syncline (with plunge indicated)

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

Energy, Mines and Resources Canada Énergie, Mines et Ressources Canada

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PROVINCE OF BRITISH COLUMBIA
MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES

OPEN FILE MAP 1988/8

GEOLOGY OF THE CHEMAINUS RIVER AND DUNCAN AREA NTS 92C/16 AND 92B/13

Geology by N. W. D. Massey, S. J. Friday, P. E. Tercier and T. E. Potter, 1987.

Compilation by N. W. D. Massey

LEGEND FOR SHEETS 3 - 9

INTRUSIVE ROCKS

AGE UNCERTAIN

MINOR INTRUSIONS

- D dacite, rhyolite dykes (post-Late Triassic)
- F feldspar, quartz-feldspar porphyry (Jurassic or ?Paleozoic)
- H hornblende-feldspar porphyry (Jurassic or ?Tertiary)

EARLY TO MIDDLE JURASSIC

JI ISLAND INTRUSIONS

- a aplite
- b mafic dykes
- d diorite, gabbro
- g granodiorite
- n granodiorite with abundant mafic xenoliths
- q quartz diorite

LATE TRIASSIC

TRki SILLS AND DYKES (COEVAL WITH KARMUTSEN FORMATION)

- i diabase, gabbro and flower gabbro

LATE DEVONIAN

SALTSPRING INTRUSIONS

- P feldspar porphyry
- Q quartz porphyry, quartz-feldspar porphyry
- S granodiorite, microgranodiorite

VOLCANIC AND SEDIMENTARY ROCKS

UPPER CRETACEOUS
NANAIMO GROUP

KNcd CEDAR DISTRICT FORMATION

- a argillite, shale
- s sandstone
- t siltstone

KNe EXTENSION-PROTECTION FORMATION

- b boulder conglomerate
- g granule conglomerate
- p pebble conglomerate
- s sandstone, pebbly sandstone
- t siltstone

KNh HASLAM FORMATION

- a argillite, shale
- t siltstone
- s sandstone

KNc COMOX FORMATION

- b boulder conglomerate
- g granule conglomerate
- p pebble conglomerate
- s sandstone, pebbly sandstone
- t siltstone

UPPER TRIASSIC
VANCOUVER GROUP

TRk KARMUTSEN FORMATION

- b pillow breccia
- g glomeroporphyritic flows
- h hyaloclastite, hyaloclastite breccia
- i diabase, gabbro dykes and sills
- m massive flows
- p pillowed flows
- t laminated tuff, tuffaceous argillite, argillite

?MIDDLE DEVONIAN TO LOWER PERMIAN
SICKER GROUP

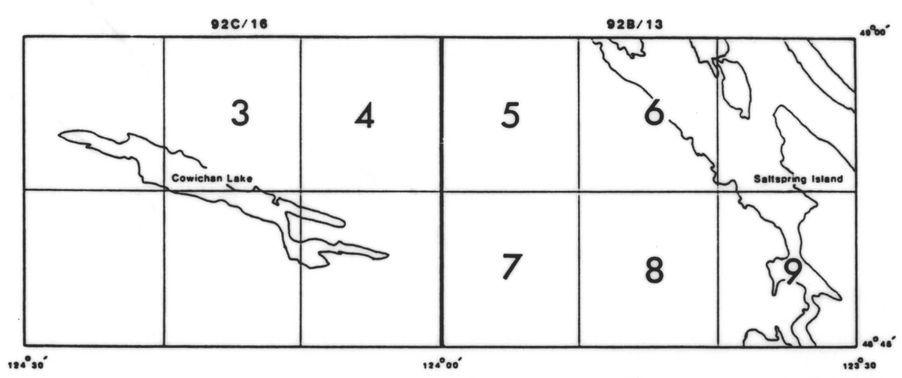
PSmm MOUNT MARK FORMATION

- c chert
- j limestone, crinoidal limestone, bedded limestone, marble
- t intercalated thinly bedded sandstone, siltstone, argillite

PScr CAMERON RIVER FORMATION

- c chert, cherty tuff
- g graphitic argillite +/- sulphides
- k lithic tuff, lithic tuffaceous sandstone
- l laminated tuff, cherty tuff
- o massive aphyric mafic flows or sills
- p jasper, hematite/magnetite chert iron formation
- r rhyolite, dacite sills
- s massive tuffaceous sandstone
- t intercalated thinly bedded sandstone, siltstone, argillite
- u epiclastic sandstone, granule and pebble conglomerate
- v siltsone, cherty siltstone
- w hornfelsed sediments
- y chlorite schist, talc-chlorite schist
- z phyllite

Index map for sheets 3-9



PSmr MCLAUGHLIN RIDGE FORMATION

- a pyroxene crystal tuff, lapilli tuff
- b pyroxene rich volcanic breccia, agglomerate
- c chert, cherty tuff
- d felsic lapilli tuff, feldspar crystal lapilli tuff
- e felsic tuff, feldspar crystal tuff
- f intermediate to mafic feldspar crystal tuff, lapilli tuff
- g argillite, graphitic argillite ± sulphides
- h heterolithic conglomerate
- j quartz-feldspar crystal tuff, crystal lappilli tuff (may be quartz-feldspar porphyry in part)
- k lithic tuff, lithic tuffaceous sandstone
- l laminated tuff, cherty tuff
- m monolithic lapilli tuff, breccia
- n heterolithic lapilli tuff, breccia
- o massive aphyric mafic flows
- p jasper, hematite-magnetite chert iron formation
- q pyroxene porphyry (flows and intrusions)
- r rhyolite, dacite (flows and intrusions)
- s massive tuff, tuffaceous sandstone
- t intercalated thinly bedded sandstone, siltstone, argillite
- u epiclastic sandstone, granule and pebble conglomerate
- w hornfelsed sediment (?sandstone)
- y chlorite schist, talc-chlorite schist (protolith uncertain)
- z maroon and green phyllite (protolith uncertain)

PSn NITINAT FORMATION

- a pyroxene crystal tuff, lapilli tuff
- b pyroxene rich volcanic breccia, agglomerate
- f feldspar crystal tuff, lapilli tuff
- h heterolithic conglomerate, breccia
- l laminated tuff, cherty tuff
- m monolithic lapilli tuff, breccia
- n heterolithic lapilli tuff, breccia
- o massive aphyric mafic flows
- p pillowed flows
- q pyroxene porphyry (flows and intrusions)
- r rhyolite, dacite (flows and intrusions)
- s massive tuff, tuffaceous sandstone
- t intercalated thinly bedded sandstone, siltstone, argillite
- u epiclastic sandstone, granule and pebble conglomerate

Notes:

a This is a field legend and applies to all seven 1:20 000 maps. Not all lithologies listed are present on each map.

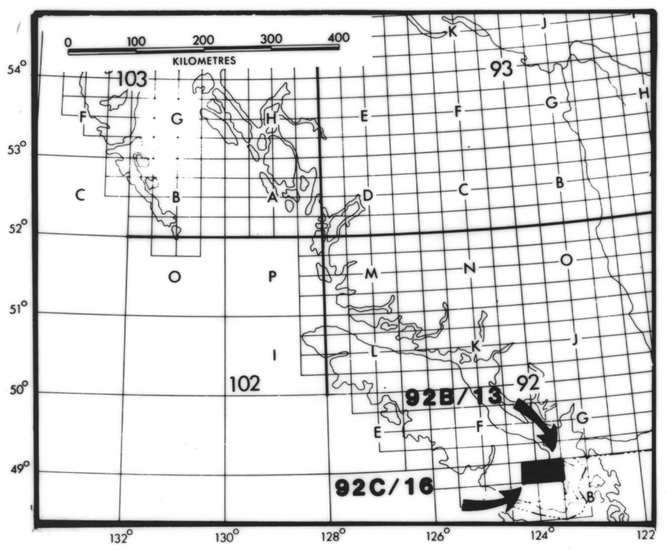
b Position in the legend of lithologies within each formation does not imply any age or stratigraphic relationship.

c Where two or more lithologic codes are shown for an outcrop, the designated units are interbedded and are listed in approximate order of abundance. Where a comma is used to separate two or more lithologic codes, an intrusive relationship is implied.

SYMBOLS

- Geological contact (defined, approximate, transitional)
- Limit of drift covered area
- Limit of mapping
- Fault (defined, approximate)
- Thrust fault (defined, approximate, assumed) teeth indicate upthrust side with dip indicated
- Shearing and dip
- Bedding (horizontal, inclined, overturned)
- Strike and dip of pillows, tops known
- Schistosity (inclined, vertical)
- Lineation of unknown age
  - S intersections
  - Microcrenulation
  - Quartz eyes
- Axes of minor folds
- Anticline (with plunge indicated)
- Syncline (with plunge indicated)
- Fossil locality

LOCATION MAP



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OPEN FILE 1988-8 Sheet 3 of 10

VANCOUVER

COWICHAN

02 20' 03 04 05 06 07 08 15' 09 10 11 12 13 14 10' 15

49°00'

48°55'

124°20' 124°15' 124°10'

Scale 1:20000

1 0 1 2 Km

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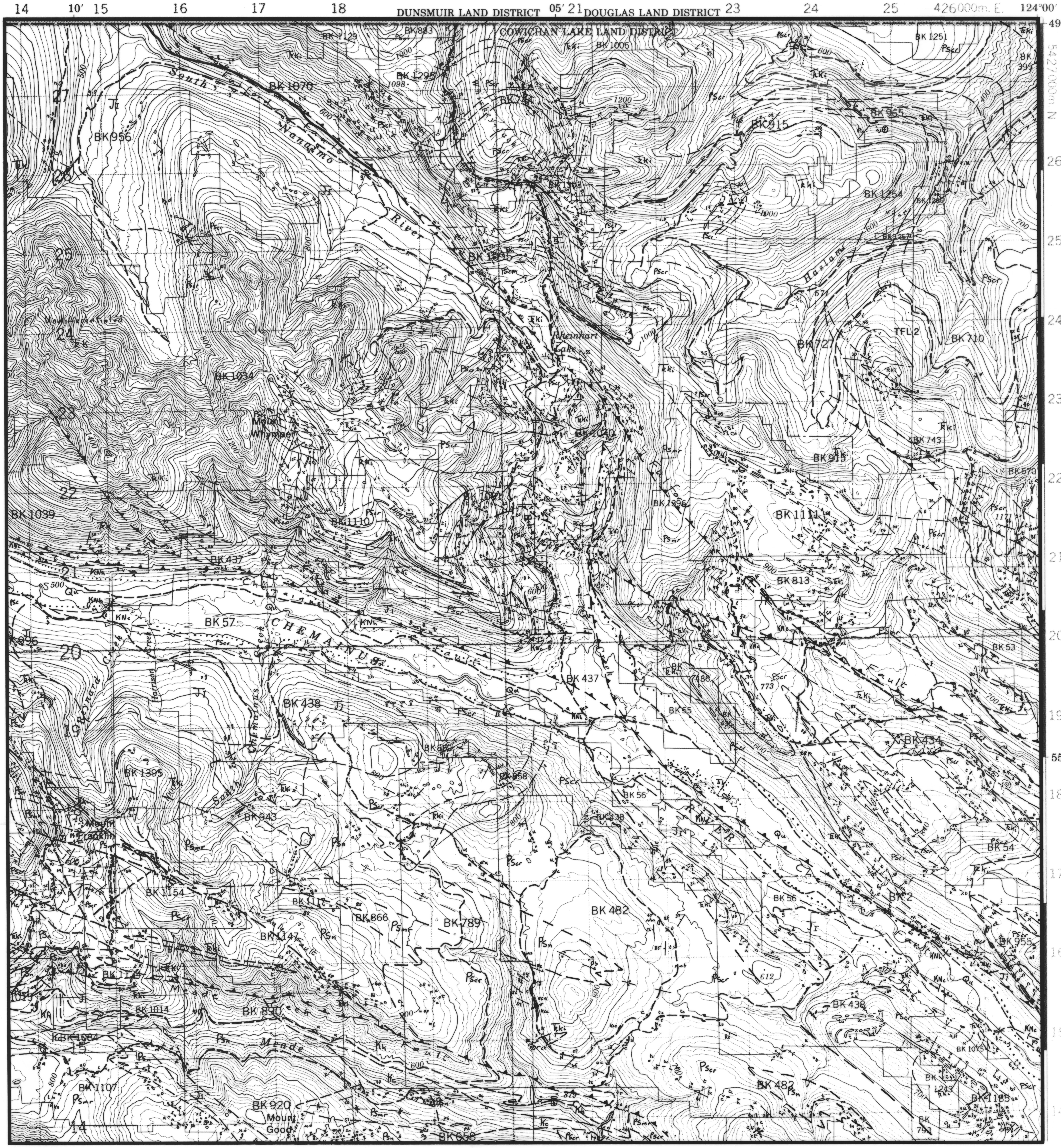

Scale 1:20000

1 0 1 2 Km

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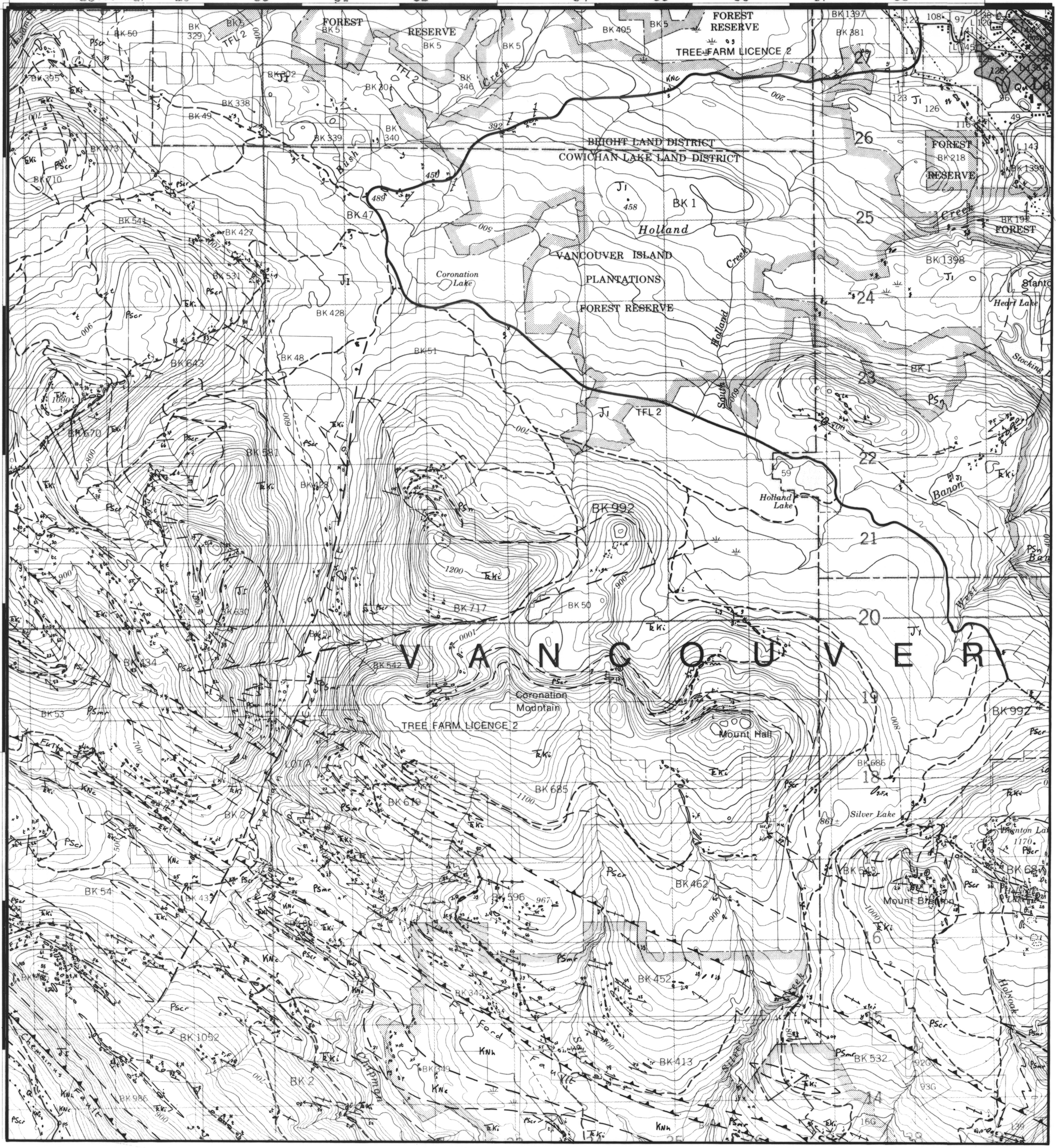

124°00′
428000m. E.
29
30
31
32
55′
34
35
36
37
38
50′
49°00′
5426000m. N.
27
26
25
24
23
22
21
20
19
18
17
16
15
14
FOREST RESERVE
TREE FARM LICENCE 2
TFL 2
BRIGHT LAND DISTRICT
COWICHAN LAKE LAND DISTRICT
VANCOUVER ISLAND PLANTATIONS FOREST RESERVE
Holland Creek
South Holland
Bush Creek
Coronation Lake
Holland Lake
Heart Lake
Stocking
Banon
West
Silver Lake
Brenton Lake
Coronation Mountain
Mount Hall
Mount Brenton
VANCOUVER
LOTA
Holyoak
Chipman
Fulford Fault
Chemainus Fault
Silver Creek
BK 50
BK 329
BK 5
BK 405
BK 1397
BK 381
BK 395
BK 302
BK 301
BK 346
BK 338
BK 49
BK 339
BK 340
BK 473
BK 710
BK 47
BK 541
BK 427
BK 531
BK 428
BK 1
BK 218
BK 1399
BK 192
BK 1398
BK 643
BK 48
BK 51
BK 670
BK 581
BK 992
BK 630
BK 717
BK 434
BK 542
BK 53
BK 685
BK 686
BK 619
BK 2
BK 54
BK 433
BK 596
BK 462
BK 543
BK 687
BK 605
BK 452
BK 342
BK 1052
BK 413
BK 532
BK 349
BK 986
92G
93G
16G
139
59
458
392
450
489
1090
1200
1100
1000
900
800
700
600
500
400
200
861±
967
1170
PScr
PSmr
PSn
TrKi
KNc
KNh
JI

Scale 1:20000

1 0 1 2 Km

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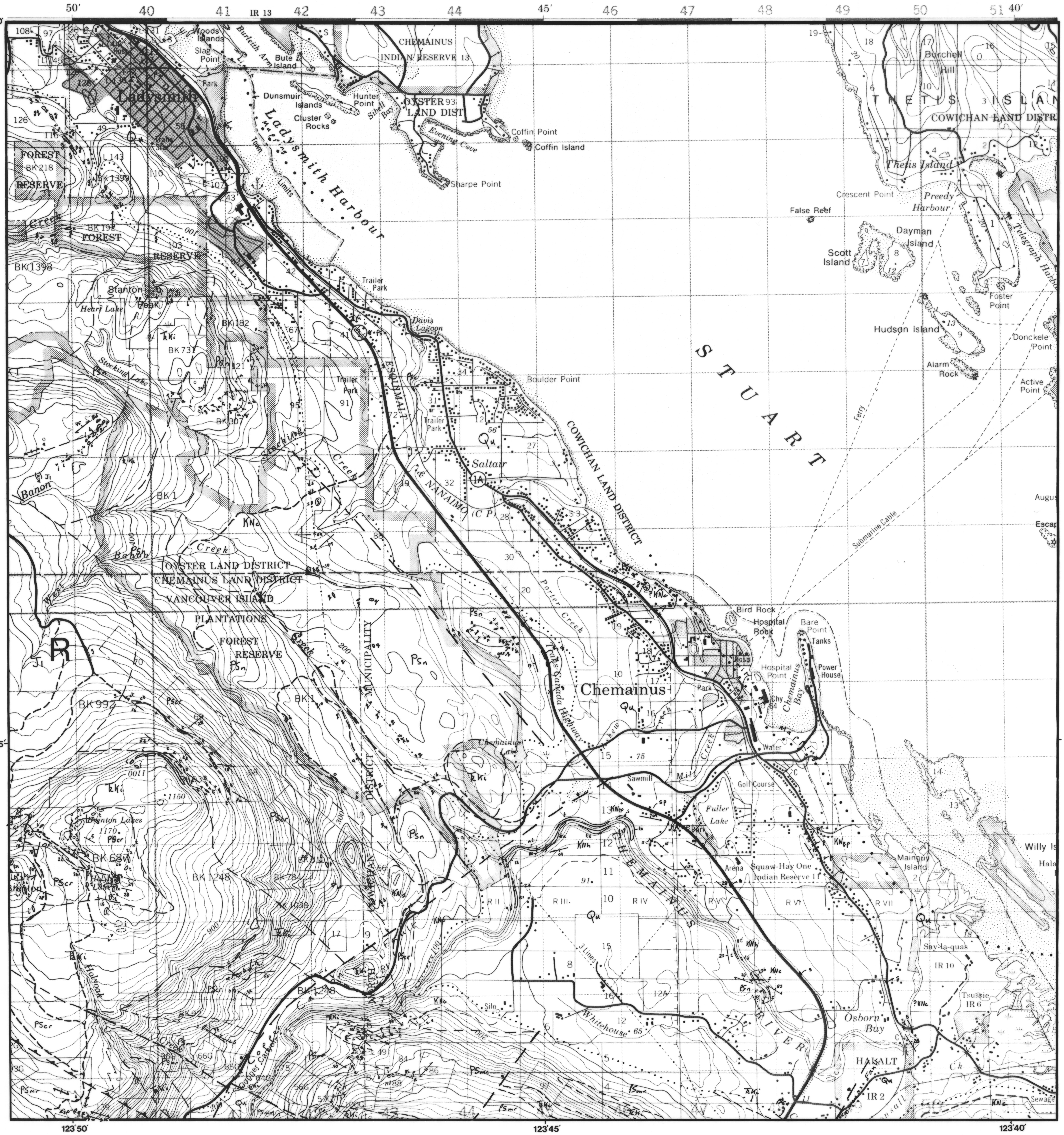

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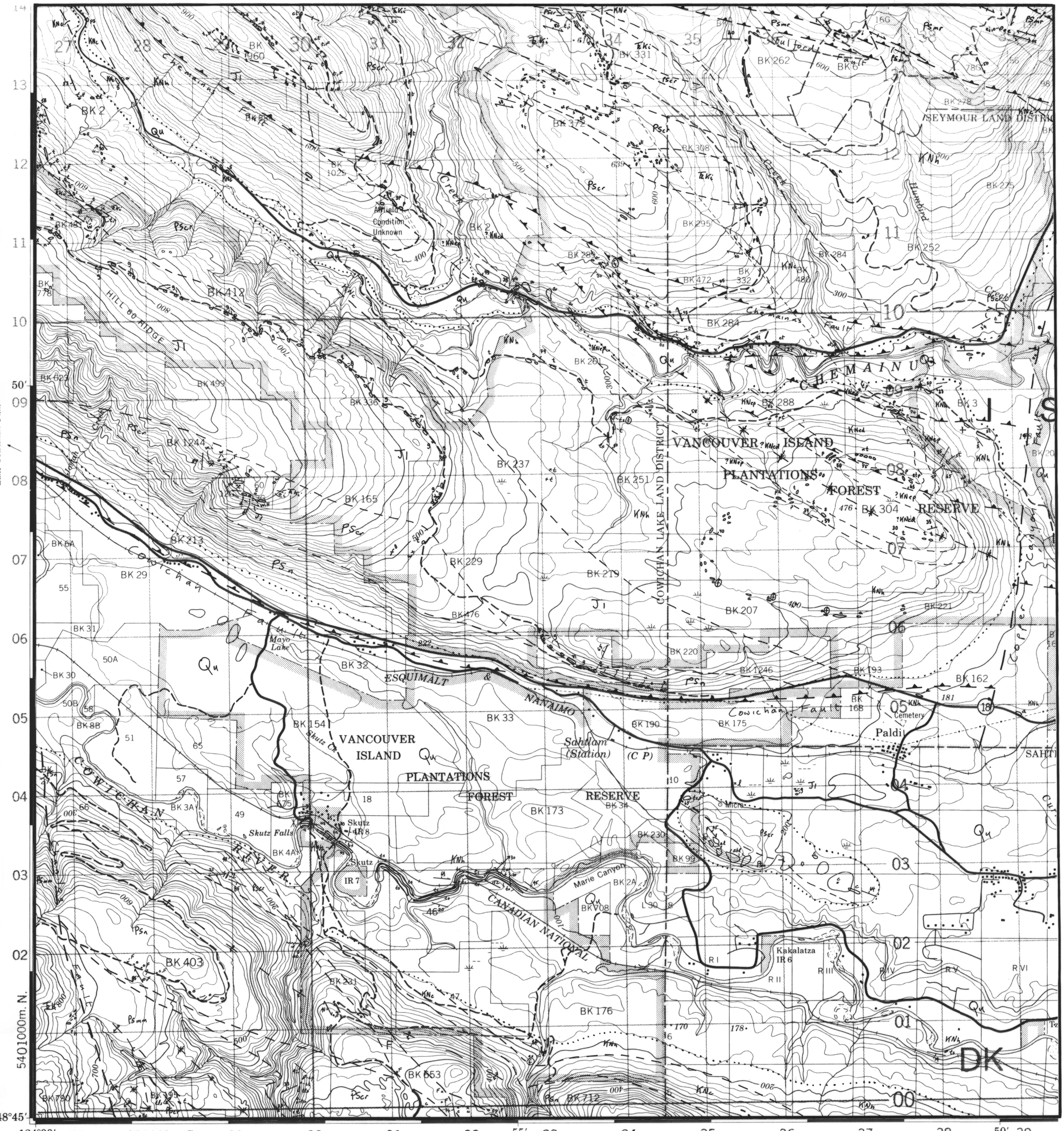

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123°50′ 123°45′ 123°40′

48°50′ 48°45′

38 50′ 39 40 41 42 43 44 45′ 46 47 48 49 50 40′

Scale 1:20000

1 0 1 2 Km

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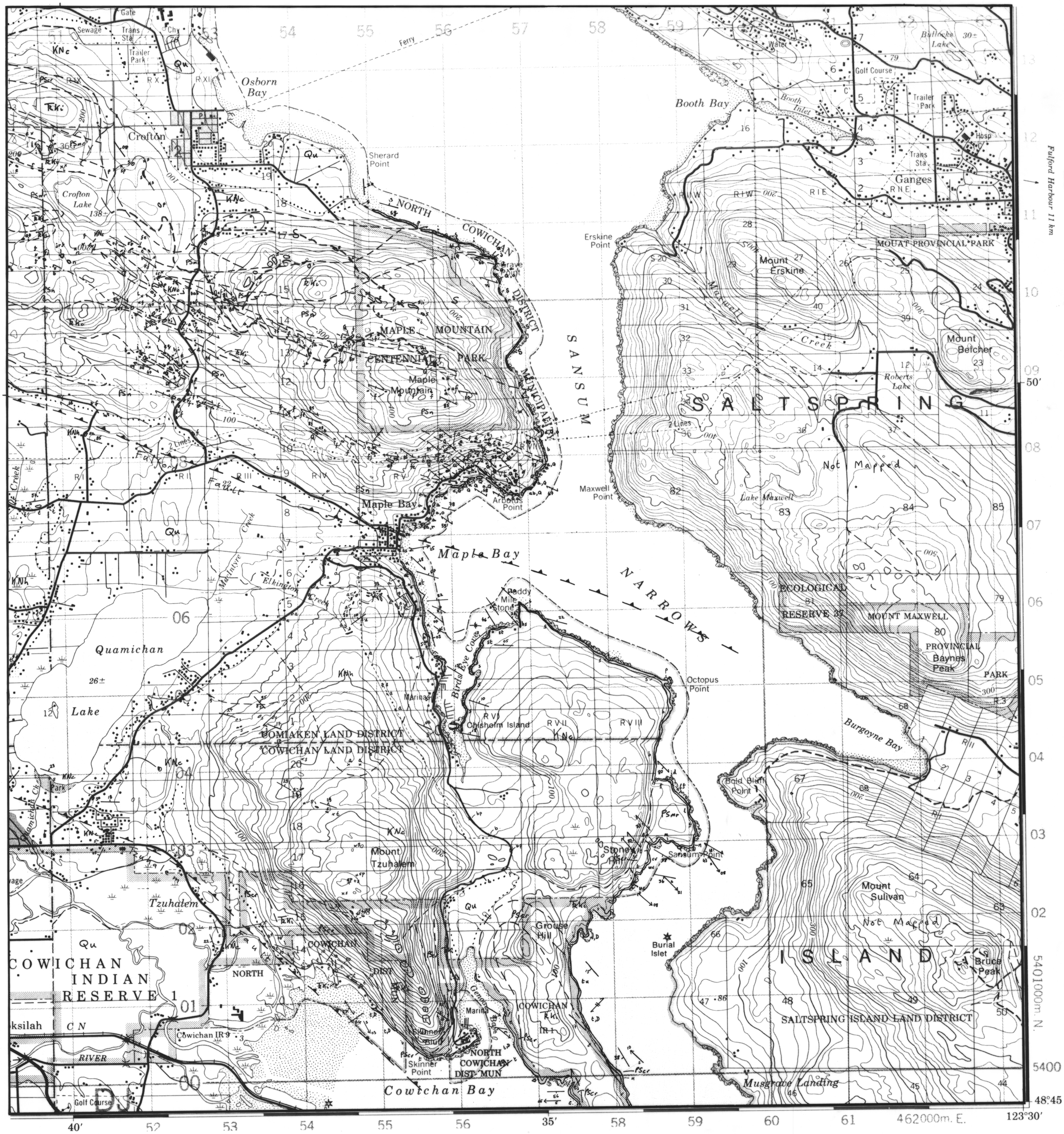

Scale 1:20000

1 0 1 2 Km

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88-8

3.0

88-8

3.0

LITHOGEOCHEMICAL ASSAY SAMPLES

No	Sample	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Co ppm	Ni ppm	Mo ppm	As ppm	Sb ppm
Shear Zones											
(i) Quartz veins											
1	87WM120802	197	<0.5	11	3	23	19	2		<40	<10
2	87SF270501	100	<0.5	72	33	30	20	<5	230	138	2
3	87SF440201	<20	<0.5	3	5	32	19	<5	<10	63	<0.5
37	87WM430102	20	<0.5	105	10	45	33	14	28	40	0.9
(ii) Quartz-ankerite zones											
4	86JR300602	<15	0.4		83	11	46	38	94	<5	107	<10
5	87WM060902	<20	<0.5	173	11	50	18	84		<40	<10
6	87WM060903	68	<0.5	58	7	48	19	108		<40	<10
7	87WM081501	25	<0.5	111	7	61	21	32		<40	<10
8	87WM100301	<20	<0.5	500	4	177	38	4		133	52
9	87WM100701	754	<0.5	90	6	77	26	40		<40	<10
10	87SF131701		3	0.18%	<5	41	26	28	<10	60	1
11	87F1100201	<20	<0.5	51	15	68	60	305	<10	150	2
Sicker Group											
(i) Jasper and chert											
12	87SF090501A	269	<0.5	58	15	75	53	33		<40	<10
13	87SF090501B	<20	<0.5	156	15	58	30	31		<40	<10
14	87SF090601	<20	<0.5	56	6	44	41	18		<40	<10
15	87SF110301	<20	<0.5	4	7	30	37	28		<40	<10
16	87SF140601	90	<0.5	44	17	60	10	<10	40	12	
17	87SF560701	<20	<0.5	12	11	29	27	16	<10	25	12
18	87WM070102	<20	0.5	41	3	46	67	54		<40	<10
19	87WM070701	161	<0.5	174	7	69	73	58		<40	<10
(ii) Sediments (Disseminated mineralization)											
20	86WK450101	145	2	18	27	15	70	22	33	35	<10
21	86WK481101	<15	1.4	35	15	159	39	23	6	<25	<10
22	86WK540401	31	0.4	29	24	38	15	51	110	<25	<10
23	86JR300502	16	0.6	74	43	47	52	28	10	<25	<10
24	87WK020401	<20	<0.5	110	11	194	73	320		256	<10
25	87WK121001	<20	<0.5	42	4	95	3	14		<40	<10
26	87WM151601	<20	<0.5	44	4	89	30	12	<10	4	<0.5
27	87WM231001	70	0.5	270	25	66	14	6	30	3	<0.5
28	87SF010502	41	0.6	113	15	74	27	13		<40	<10
29	87SF030502	<20	<0.5	96	8	91	18	16		<40	<10
30	87F1080201	217	<0.5	86	6	95	15	32		<40	<10
31	87F1100401	<20	<0.5	45	13	120	28	59	<10	51	1
32	87F1131101	<20	<0.5	280	11	83	36	44	<10	51	<0.5
(iii) Volcanics (Disseminated mineralization)											
33	87SF090701	511	<0.5	30	12	109	16	4		<40	<10
34	87WK260203	80	<0.5	19	15	20	24	<5	18	21	1
35	87WK330701	100	0.7	51	50	0.45%	44	10	13	45	0.5
36	87SF112201	<20	0.5	810	<3	14	70	8		<40	<10

MINERAL OCCURRENCES IN THE DUNCAN MAP AREA

Name	Minfile No.	Economic Minerals
Jaspers		□
1 Lady A, A-B	092B-029	mag, spec, hem, Jasper
2 Lady A, C	092B-033	mag, spec, hem, Jasper
3 Fly	092B-076	mag, spec, Jasper
4 Mosabi	092B-030	jasper, mag, hem, spec
Copper-molybdenite veins and skarns		●
1 BJ	092B-131	py, cpy
2 Ant	092B-133	py, cpy, po, mo
3 Coronation	092B-104	cpy, py, po
4 Consuo (Cascade, Anne, Kitchener)	092C-018	py, cpy, mo, mag, po, tet, Au, Ag
Others		○
1 Rose	092B-028	mica
2 Sally	092B-095	limonite
3 Stutz Falls	092B-130	limestone
4 Duncan	092B-126	clay
5 Quamichan Lake	092B-130	diatomite
6 Jane (New Ironclad)	092B-069	talc
Volcanogenic polymetallic massive sulphides		▲
1 Mount Sicker a) Lenora-Tyee (Twin J)	092B-007, 002	py, cpy, sphl, gln, ba
b) Richard III	092B-003	py, cpy, sphl, gln, ba
c) Victoria	092B-004	py, cpy, Au, Ag
2 Anita	092B-027	cpy, py, Ag
3 Sharon (Pauper, Nora, Brent)	092B-060	cpy, py, Au, Ag
4 Waterpower-Brenton (Mildred)	092B-061	cpy, Ag
5 Lara a) Coronation Zone		sphl, py, cpy, gln, Au, Ag
b) Coronation Extension Zone		sphl, py, cpy, gln, Au, Ag
c) Sandy North Zone		sphl, py, cpy, tet
d) Hope	092B-110	cpy, py, sphl, gln, Au, Ag
6 Pogo	092B-074	cpy, gln, sphl
Gold-bearing veins along shears		△
1 Mount Sicker area a) Key City	092B-087	py, cpy
b) Queen Bee (Seattle)	092B-088	py, Au
c) Belle	092B-089	cpy,
d) Washdime	092B-090	?cpy
e) Northeast Copper Zone	092B-099	py, cpy
2 Mount Richards area		
a) Cornucopia	092B-038	cpy, Au, Ag
b) Treka	092B-039	cpy, Au, Ag
c) Jane (New Ironclad)	092B-069	cpy, sphl, talc
d) Lucky Strike	092B-091	cpy
e) Sally 2	092B-092	py, cpy
f) Sirius	092B-096	cpy
3 Copper Canyon	092B-076	cpy, py
4 Cardy	092C-076	cpy, po
5 El Capitan - Lardalt area		
a) Cottonwood	092C-020	cpy, spy, erythrite, Au, Ag
b) Silver Leaf	092C-021	cpy, spy, po, Au, Ag
c) Paine Pot	092C-043	cpy, Ag, Au
d) El Capitan	092C-059	cpy, Au, Ag
Manganese (Rhodonite) deposits		■
1 Hill 60	092B-027	rhodonite
2 Rocky (Wilcox Creek, Cottonwood)	092C-115	rhodonite
3 Meade	092C-115	rhodonite
4 Stanley Creek (Lookout Locality)	092C-116	rhodonite
5 Striker		rhodonite

Mineral Occurrences and Lithogeochemistry

Scale 1:50 000 Échelle

Miles 1 0 1 2 3 Miles

Metres 1000 0 1000 2000 3000 4000 Metres

Yards 1000 0 1000 2000 3000 4000 Yards

CM