Vegetation Map

103I051

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Scale 1:20,000

0 0.25 0.5 0.75 1 Kilometers

0 0.25 0.5 Miles

Vegetation Data Source: MFLNRO - VRIMS / Ownership
Base Map Source: TRIM / Tantalis

This map is created from information stored digitally in the BC Geographic Warehouse. The map has been structured to support the analytical functions of the Ministry of Forests, Lands, and Natural Resource Operations. The information portrayed may not be complete and up to date Cadastral, administrative boundaries and the Ownership colour theme are for reference purposes only. (Legend revisions June 2014)

Labels Projected To: January 1, 2016

MAP SYMBOLOGY

Forest Inventory Features:
- Forest Vegetation Polygons
- Silviculture Opening in Vegetation
- Permanent Sample Plot (GYS)
- Research Installations

TRIM, Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air/Ferries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- HydroNavBarriers - EBM
- Watercourses - EBM
- Waterbodies - EBM
- Wetlands - EBM
- Ocean - EBM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- INV Region-Compartment - FADM
- Provincial Forest area - FADM
- Timber Supply Area-Block - FADM
- Tree Farm Licenses - FADM
- Land District boundary
- Administrative boundary
- Survey Parcels - Tantalis
- Municipal boundary (< 1,000,000 ha - 15 % hatch)
- Municipal boundary (> 1,000,000 ha) - no hatch)
- National Parks
- First Nations
- Provincial Parks
- Ecological Reserves
- Protected Areas
- Recreation Areas

Other:
- BCGS Mapsheet Grid (1:20,000)

VEGETATION LABEL DETAILS

Example of a Vegetation Label:

○12
123/L
Fd(Hw)
211-20
he sl
GL78

LINE DESCRIPTION
1 Silviculture symbol and Opening Number
2 Polygon Number and multi-layer stand indicator (L)
3 Species Composition
ex: the most important layer is described as Fd (Dougls Fir) and Hw (Western Hemlock).
4 Age, Height, Crown Closure Class Code - separator Site Index / estimated SI
ex: stand is age class 2 (21-40 yrs), height class 1 (0.1-10.4m), crown closure class 1 (6-15%), SI 20m
5 Vegetated Density Class (or Non Forest/Productive Descriptor)
ex: a herb polygon with no distinction between forbs and graminoids, shrubs less that 2m.
6 Disturbance History & year - ex: Logged in 1978

Line 1 - History Record Opeing Number

○12 - opening number valid for BCGS mapsheet   *blank* - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

VRIMS Polygon Number - ranging from one to nine digits
/L - Multi-layered stand (a separate description of each layer is availiable in the data base, i.e. 1,2)

Line 3 - BC Tree Code List

Species Compsition: Species are labeled in their order of predominance. Major first Minor in brackets.
The following codes are based on "The B.C. Ministry of Forests Tree Code List" version 4.5 dataed January 2009.

NATIVE CONIFERS
- C CEDAR
- Cw Western Red Cedar
- Y CYPRESS
- Yc Yellow Cedar
- F DOUGLAS FIR
- Fd Douglas Fir
- Fdc Coastal Douglas Fir
- Fdi Interior Douglas Fir
- B FIR (Balsam)
- Ba Amabilis Fir
- Bg Grand Fir
- Bl Subalpine Fir (alpine)
- H HEMLOCK
- Hm Mountain Hemlock
- Hw Western Hemlock
- Hxm Mountain x Western Hemlock hybrid
- J JUNIPER
- Jr Rocky Mtn. Juniper
- Js Seaside Juniper
- L LARCH
- La Alpine Larch
- Lt Tamarack
- Lw Western Larch
- P PINE
- Pj Jack Pine
- Pf Limber Pine
- Pl Lodgepole Pine
- Pli Lodgepole Pine (interior)
- Pxj Lodgepole x Jack Pine hybrid
- Py Ponderosa Pine (yellow)
- Plc Shore Pine (coast)
- Pw Western White Pine
- Pa Whitebark Pine
- S SPRUCE
- Sb Black Spruce
- Se Engelmann Spruce
- Ss Sitka Spruce
- Sw White Spruce
- Sx Spruce hybrid
- Sxw Engelmann x White
- Sxl Sitka x White
- Sxs Sitka x unknown hybrid
- T YEW
- Tw Western Yew

NATIVE HARDWOODS
- D ALDER
- Dr Red Alder
- U APPLE
- Up Pacific Crab Apple
- A ASPEN, COTTONWOOD or POPLAR
- Ac Poplar
- Acb Balsam Poplar
- Act Black Cottonwood
- Ax hybrid Poplars
- At Trembling Aspen
- R ARBUTUS
- Ra Arbutus
- E BIRCH
- Ea Alaska Paper Birch
- Exp Alaska x Paper Birch hybrid
- Ep Paper Birch (white)
- Ew Water Birch
- K CASCARA
- Kc Cascara
- V CHERRY
- Vb Bitter Cherry
- Vv Choke Cherry
- Vp Pin Cherry
- G DOGWOOD
- Gp Pacific Dogwood (western flowering)
- M MAPLE
- Mb Bigleaf Maple (broadleaf)
- Mv Vine Maple
- Q OAK
- Qg Garry Oak
- W WILLOW
- Wb Bebb's Willow
- Wp Pacific Willow
- Wa Peachleaf Willow (Barclay's)
- Wd Pussy Willow (gray-leaved)
- Ws Scouler's Willow
- Wt Sitka Willow (tea-leaved)

UNKNOWN - OTHER
- X UNKNOWN
- Xc unknown conifer
- Xh unknown hardwood
- Z OTHER (tree not on list)
- Zc other conifer
- Zh other hardwood

EXOTICS
- APPLE
- Ua Apple
- ASPEN, COTTONWOOD or POPLAR
- Ad *Southern Cottonwood
- BIRCH
- Ee European Birch
- Es Silver Birch (swamp)
- Ey *Yellow Birch
- CHERRY
- Vs Sweet Cherry
- CYPRESS
- Yp *Port Orford Cedar
- FIR (Balsam)
- Bb *Balsam Fir
- Bp Noble Fir
- Bm *Shasta Red Fir
- Bc *White Fir
- LARCH
- Ld *Dahurian Larch
- Ls *Siberian Larch
- MAPLE
- Me Box Elder
- Mn *Norway Maple
- Ms *Sycamore Maple
- OAK
- Qe *English Oak
- Qw *White Oak
- OTHER EXOTICS
- Oa *Incense Cedar
- Ob *Giant Sequoia
- Oc *Coast Redwood
- Od European Mountain Ash
- Oe Siberian Elm (southern)
- Of Common Pear
- Og Oregon Ash
- Oh *White Ash
- Oi *Shagbarck Hickory
- Oj Tree-of-heaven
- Ok Japanese Walnut
- PINE
- Pm *Monterey Pine
- Pr *Red Pine
- Ps *Sugar Pine
- SPRUCE
- Sn *Norway Spruce

Line 4

4a AGE CLASS

CODE	LIMITS (years)
1	1-20
2	21-40
3	41-60
4	61-80
5	81-100
6	101-120
7	121-140
8	141-250
9	251 +

4b HEIGHT CLASS

CODE	LIMITS (metres)
1	0.1 - 10.4
2	10.5 - 19.4
3	19.5 - 28.4
4	28.5 - 37.4
5	37.5 - 46.4
6	46.5 - 55.4
7	55.5 - 64.4
8	65.5 +

4c CROWN CLOSURE CLASS

CODE	LIMITS (percentage)
0	0 - 5
1	6 - 15
2	16 - 25
3	26 - 35
4	36 - 45
5	46 - 55
6	56 - 65
7	66 - 75
8	76 - 85
9	86 - 100

4d SITE INDEX

All SI are shown to the nearest metre referenced at 50 years Breast Height Age. SI is based on the age and height of the leading species. When an accurate SI cannot be obtained from age and height, estimated SI is shown after, or replaces the SI.

4e ESTIMATED SITE INDEX

SI is estimated when suitable SI trees arenot present, e.g. young stands (<30yrs). It is denoted by a slash which always precedes it. Associated fields in the data base are Inventory Type Group and SI Estimated source code.

Line 5 Vegetation records

VEGETATED NON-TREE CATEGORIES (for V and I records)

NON-TREED SHRUB
- st SHRUB TALL - shrub with average shrub height > or = to two metres.
- sl SHRUB LOW - shrub with average shrub height < two metres.

NON-TREED HERB
- he HERB - herb with no distinction between forbs and graminoids.
- hf HERB - FORBS - herb with forbs > 50% of the herb cover.
- hg HERB - GRAMINOIDS - herb with gaminoids > 50% of the herb cover.

NON-TREED BRYOID
- by BRYOIDS - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses, liverworts, and hornworts > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED
- el Exposed Land
- ro Rock / Rubble
- si Snow / Ice

NON-VEGETATED CATEGORIES (for V and I records)

ap AIRPORT	gp GRAVEL PIT	mu MUDFLAT SEDIMENT	rm RESERVOIR MARGIN
be BEACH	la LAKE	mz RUBBLY MINE SPOILS	rn RAILWAY SURFACE
bl BLOCKFIELD	lb LAVA BED	oc OCEAN	rs RIVER SEDIMENTS
br BEDROCK	ll LANDING	ot OTHER	rz ROAD SURFACE
bu BURNED AREA	ls POND or LAKE SEDIMENTS	pn SNOW COVER	ta TALUS
cb CUTBANK	mi OPEN PIT MINE	re RESERVOIR	tz TAILINGS
es EXPOSED SOILS	mn MORAINE	ri RIVER / STREAM	ur URBAN
gl GLACIER			

Note: Water categories (la, oc, re, ri) not labelled over 90 percent coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for F records)

A ALPINE	NP NON PRODUCTIVE	SAND SAND
AF ALPINE FOREST /Species	NPBR NON PRODUCTIVE BRUSH	TIDE TIDAL FLAT
C CULTIVATED	NPBU NON PRODUCTIVE BURN	U URBAN
CL CLAY BANK	NPF NON PRODUCTIVE FOREST /Species	
G GRAVEL BAR	NTA NO TYPING AVAILABLE	NC NON COMMERCIAL
GR GRAVEL PIT	OR OPEN RANGE	NCBR NON COMERCIAL BRUSH
ICE ICEFIELD	P HAYFIELD	NP NON PRODUCTIVE
M MEADOW	R ROCK	NSR NOT SUFFICIENTLY RESTOCKED
MUD MUD FLAT	S SWAMP	NTA NO TYPING AVAILABLE

Line 6 - Disturbance History

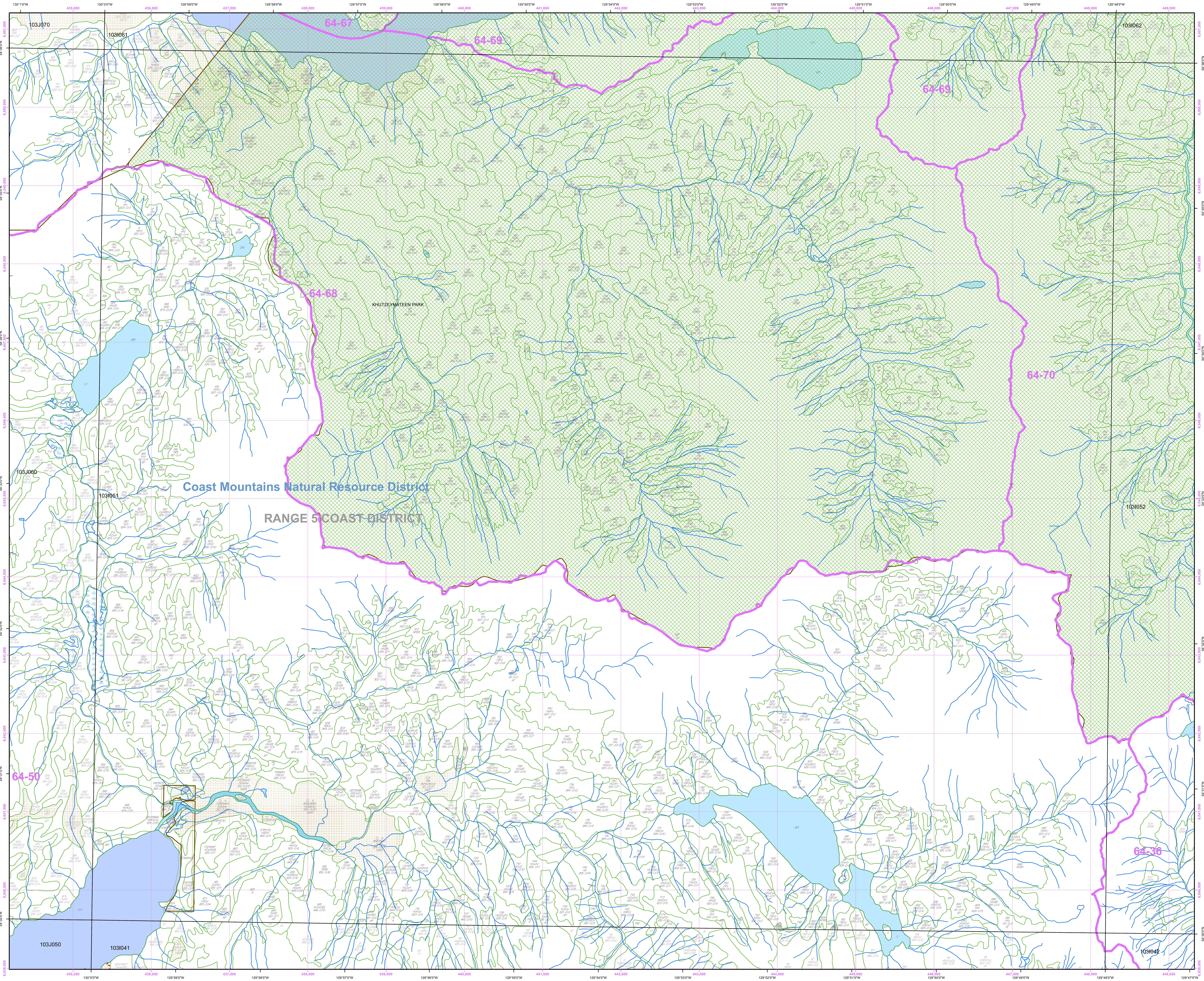
Disturbance type code preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

A Animal Damage	L Logging	R Site Rehabilitation
B Wildfire	M Mite Damage	T Treatment Injuries
C Cone and Seed Insects	N Non-Biological Injuries	U Damage Unknown
D Diseases	P Cone and Seedling Fungal Pathogens	V Problem Vegetation
I Insects		

Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

The Ministry of Forests, Mines and Lands web application MAPVIEW is available to view this type of detailed information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for -
- OPENING
- OPENING LABELS
- OPENING - PLANTING ACTIVITY
- ACTIVITY TREATMENT UNIT
- STANDARDS UNIT
- SILVICULTURE FOREST COVER
- WILDLIFE TREE PATCH



Overflow Labels

4 Hm 933-O/4 AF	○8 269 DrCw 228-23/23 GL80	476 HS 944-O/10	743 HYc(B) 923-O/6
19 SB(Cw) 954-O/12	272 HB(S) 944-O/10	478 Hm(Yc) 924-O/3	748 HS(Cw) 942-O/11
22 HB(Yc) 935-O/7	273 HYc(B) 723-O/7	484 Hm 922-O/3 AF	758 HS(Cw) 944-O/10
24 HYc 934-O/9	276 HBYc 924-O/6	485 Hm 932-O/3 AF	768 HS(B) 955-O/15
39 HwCw(B) 944-O/11	322 HS(CwYc) 933-O/9	486 Hm(Yc) 924-O/3	776 HCw(S) 946-O/10
61 HwSB(Cw) 925-O/16	323 Hm(SB) 934-O/5	489 HmYc 813-O/2 AF	796 HYc(B) 923-O/6
73 YcHB 924-O/7	327 HSCw(B) 944-O/13	501 H(Cw) 934-O/9	798 NPBR
79 HYcB(Cw) 936-O/10	328 Hm(SB) 934-O/5	509 HCw(Yc) 945-O/10	799 HYcCw 924-O/7
○10 87 HwCw 326-O/16 GL54	357 YcH 811-O/4 NP	511 HCw 934-O/7	805 HYc(SCw) 934-O/9
93 HS(YcB) 935-O/9	360 YcH 811-O/4 NP	512 HCwYc 945-O/10	807 NPBR
114 HS(Cw) 936-O/9	368 HYc 821-O/5 NP	513 H(Yc) 936-O/10	817 HCw(S) 946-O/13
139 Hm 932-O/3 AF	369 HYc(B) 945-O/10	536 Hm 811-O/2 AF	821 HCwYc 945-O/11
150 HS 936-O/9	370 HS(BCw) 935-O/16	560 R	822 S(H) 955-O/13
156 HS(Yc) 945-O/10	372 HSB(Cw) 954-O/15	575 HYc 413-O/3	825 DrS(H) 436-O/21
157 Hw(Yc) 812-O/3 AF	375 HCwDrB 835-O/11	583 H 933-O/9	839 HCw 825-O/5
159 H(S) 936-O/10	397 HYc(B) 934-O/7	591 Hm 934-O/3	841 HYc 925-O/4
163 Hm 932-O/4 AF	398 HYc(B) 934-O/7	595 Hm(Yc) 934-O/3	854 HS 944-O/12
169 H 412-O/2	401 HB(S) 836-O/8	598 Hm(Yc) 934-O/3	○3 862 SsHw(CwDr) 329-23/16 GL51
170 H 412-O/2	405 HB(Yc) 514-O/5	599 Hm 923-O/2 AF	○3 863 SsHw(CwDr) 329-23/16 GL51
172 H 511-O/4 AF	406 Hm 923-O/3 AF	602 SH(Cw) 943-O/10	○3 865 SsHw(CwDr) 329-23/16 GL51
178 H 934-O/7	415 HS 943-O/11	609 HYcCw 813-O/4	○3 866 SsHw(CwDr) 329-23/16 GL51
179 H 933-O/8	423 HB(S) 934-O/10	611 HCwS 836-O/14	○3 869 HwB(a) 338-23/22 GL51
186 HS 934-O/10	434 HSB 935-O/10	617 HYc(Cw) 923-O/5	○4 70245833 DrSs 331-23/23 NSR GL64
190 H(S) 945-O/14	437 HB(SYc) 944-O/11	646 HYc(CwPl) 935-O/8	70685436 CwHwS 944-O/15
191 HS 945-O/13	441 HB(Yc) 944-O/11	662 CwH(SYc) 944-O/13	○4 71216036 DrSs 331-23/23 NSR GL64
196 SH 834-O/9	446 HS 625-O/10	663 BSH 946-O/13	○5 77325770 SsHwDr 235-30/30 GL65
197 SH 553-O/28	450 SH 623-O/10	667 HCwS 945-O/11	○5 85055867 HwSs(Cw) 321-22/22 GL65
200 HS(B) 834-O/10	453 SH(Yc) 954-O/10	682 HB(SCw) 946-O/11	
205 HS 944-O/11	454 HS 941-O/13	699 HYc(Cw) 944-O/11	
212 HS 934-O/8	455 HS 735-O/13	700 YcH(B) 921-O/6 NP	
213 HS 934-O/9	456 HS 735-O/13	703 HYc(Cw) 944-O/11	
214 Hm 821-O/2 AF	459 H(SYc) 945-O/10	704 YcH(B) 921-O/6 NP	
218 HS 934-O/9	461 SH(Yc) 954-O/10	716 HYcCw 934-O/8	
220 HS 934-O/9	465 H(SYc) 945-O/10	718 YcHCw 911-O/4 NP	
228 Hm 924-O/3 AF	473 SH 534-O/19	734 Dr 335-O/24	