Vegetation Map

103I041

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
- Siviculture 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)	4b HEIGHT CLASS CODE	LIMITS (metres)	4c CROWN CLOSURE CLASS CODE	LIMITS (percentage)
				0	0 - 5
1	1-20	1	0.1 - 10.4	1	6 - 15
2	21-40	2	10.5 - 19.4	2	16 - 25
3	41-60	3	19.5 - 28.4	3	26 - 35
4	61-80	4	28.5 - 37.4	4	36 - 45
5	81-100	5	37.5 - 46.4	5	46 - 55
6	101-120	6	46.5 - 55.4	6	56 - 65
7	121-140	7	55.5 - 64.4	7	66 - 75
8	141-250	8	65.5 +	8	76 - 85
9	251 +			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, be BEACH, bl BLOCKFIELD, br BEDROCK, bu BURNED AREA, cb CUTBANK, es EXPOSED SOILS, gl GLACIER, gp GRAVEL PIT, la LAKE, lb LAVA BED, ll LANDING, ls POND or LAKE SEDIMENTS, mi OPEN PIT MINE, mn MORAINE, mu MUDFLAT SEDIMENT, mz RUBBLY MINE SPOILS, oc OCEAN, ot OTHER, pn SNOW COVER, re RESERVOIR, ri RIVER / STREAM, rm RESERVOIR MARGIN, rm RAILWAY SURFACE, rs RIVER SEDIMENTS, rz ROAD SURFACE, ta TALUS, tz TAILINGS, ur URBAN

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

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

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

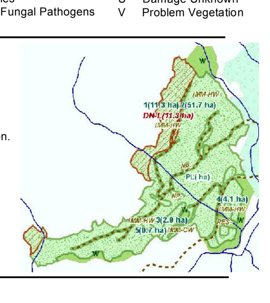
A Animal Damage, B Wildfire, C Cone and Seed Insects, D Diseases, I Insects, L Logging, M Mite Damage, N Non-Biological Injuries, P Cone and Seedling Fungal Pathogens, R Site Rehabilitation, T Treatment Injuries, U Damage Unknown, V Problem Vegetation

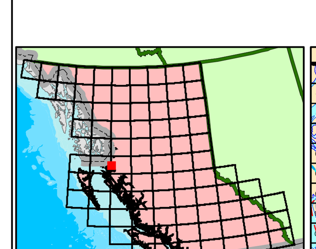
Example Opening History Details

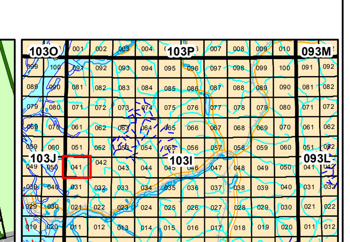
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

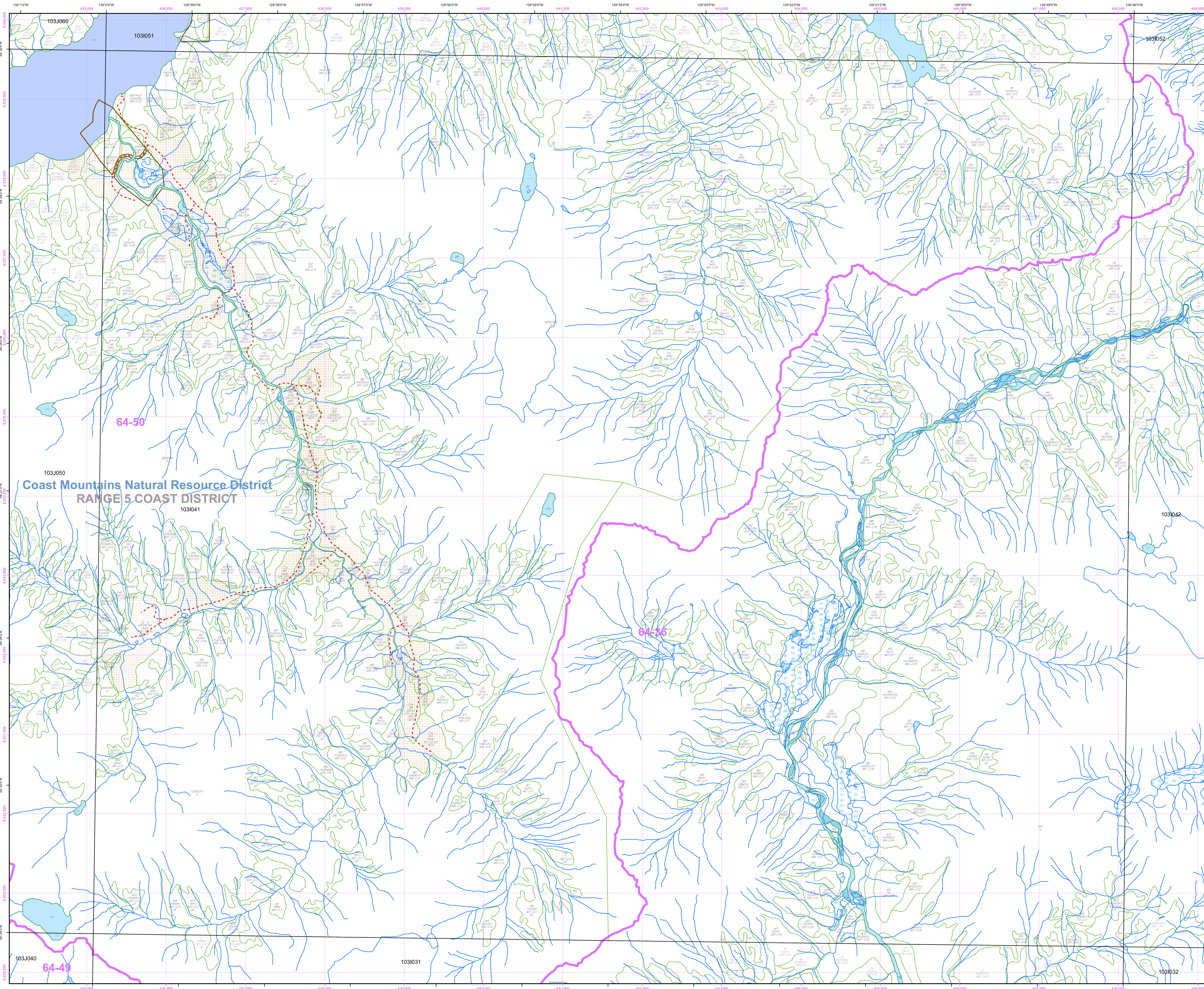
The Ministry of Forests, Mines and Lands web application MAPVIEW is available to view this type of detailed information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for -

OPENING
OPENING LABELS
OPENING - PLANTING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH









Overflow Labels

4 CwH 934-0/12	172 HYc 933-0/8 AF	429 HwCw 935-0/10
9 HYcCw 935-0/10	173 SsHw(Yc) 845-0/8	435 HwSs(Cw) 955-0/14
10 HYcCw 935-0/10	181 HwYc(Ba) 943-0/11	436 HwSs(Cw) 955-0/14
21 HCwS 955-0/15	188 HYc 823-0/7 AF	438 HS(SsBa) 933-0/8
25 HYc(B) 935-0/7	194 SsHw 956-0/13	441 HmBa(CwYc) 822-0/4 AF
26 YcHB 921-0/7 NP	195 SsHw(Cw) 945-0/8	442 SsHwDr 945-0/12
28 YcHm 823-0/6 AF	201 HmYc(Cw) 835-0/4	445 HSs(CwYc) 933-0/9
40 HYc(Cw) 944-0/11	202 HmYc 824-0/3 AF	446 CwSsHwDr 536-0/19
44 HYcCw 934-0/8	214 Cw 921-0/8 NP	448 HwYc(CwSs) 945-0/13
50 HCwYc 925-0/7	215 SsHw 965-0/19	451 Ss(Hw) 835-0/9
53 HYc(CwPl) 935-0/9	216 SsHw 945-0/12	453 HCw(S) 944-0/11
57 HYc 924-0/7	226 HwCwSs(Yc) 837-0/9	◯3 459 GL76
60 NPBR	237 YcHm 811-0/4 AF	◯3 464 HwSs(Dr) 226-22/22 GL76
61 HwCwSs 932-0/9	238 YcHm 934-0/11	◯3 466 HwSs 226-22/22 GL76
63 HS(Yc) 944-0/12	259 HwSs 956-0/17	◯7 469 NP GL84
65 HS(Yc) 944-0/12	260 HwSs 957-0/16	◯7 472 Hw 229-25/25 GL84
75 HmYc(B) 712-0/3 NP	261 HwCw(YcSs) 946-0/14	◯7 473 NP GL84
81 HwSs(YcCw) 946-0/11	274 CwHw(Ss) 837-0/11	◯7 474 Hw 229-25/25 GL84
83 HwYc(SsBa) 836-0/9	275 HwCw(YcBaSs) 837-0/11	61160304 HmYcCw 824-0/3
91 HYc(Cw) 923-0/6	◯3 311 DrSs 224-21/21 NSR GL76	61390556 Hm(Cw) 835-0/6
92 HYc 933-0/9	◯3 313 DrSs 224-21/21 NSR GL76	61410663 NSR
95 NPBR	◯4 320 NP GL76	◯2 62020465 HwSs(Cw) 221-22/22 GL76
103 HwYc(Cw) 942-0/11	◯4 321 NP GL76	◯2 63380842 NP GL76
109 HSCw 946-0/11	◯4 327 HwSs 221-22/22 GL76	◯2 63850978 HwSs 221-22/22 GL76
111 HCwYc 945-0/11	◯3 329 HwSs(Dr) 226-22/22 GL76	6395110 HYc(CwSs) 946-0/11
113 YcH(Cw) 925-0/8	370 HBaYc 923-0/7	6666158 HCwYc 837-0/9
129 HwCwYcDr(Ss) 847-0/14	373 HwCw(Ss) 836-0/10	◯2 67770837 HwSs 221-22/22 GL76
133 CwYcHw(Ba) 837-0/12	377 HwSs(Cw) 946-0/13	68853047 SsCwHw(Yc) 946-0/11
135 YcHmBa 723-0/7	382 HwSs(Cw) 954-0/14	69361265 HYc(CwSs) 945-0/10
140 Hw(SsYcBa) 944-0/11	391 HYc(Ba) 932-0/7 AF	70524309 NP
147 HwYc(Cw) 934-0/8	402 BaH 837-0/7	70600842 HwSs 956-0/17
154 HwSs 955-0/15	412 HmYcBa 712-0/4 AF	◯2 71221095 HwSs 221-22/22 GL76
160 HwSs 945-0/13	417 H(Yc) 932-0/7	◯2 71800973 HwSs 221-22/22 GL76
164 HwSs 835-0/10	418 H(Ba) 712-0/5 AF	
165 HwSs 845-0/16	420 H(CwYc) 934-0/8	