BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

# Vegetation Map
## 103H013

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:**

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

Example label: ○12 / 123/L / Fd(Hw) / 211-20 / he,sl / GL78

**Line 1 - History Record Opeing Number**
○12 - opening number valid for BCGS mapsheet    bbrk - 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 are not 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 MUDFLAT | S SWAMP | NTA NO TYPING AVAILABLE |

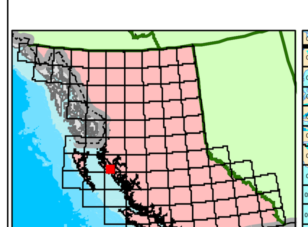
**Line 6 - Disturbance History**
Disturbance type code preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

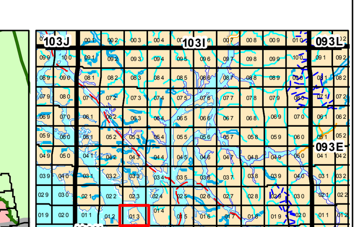
| | | |
|---|---|---|
| A Animal Damage | L Logging | R Site Rehabilitation |
| B Wildfire | M Mite Damage | T Treatment Injuries |
| C Cone and Seed Insects | N Non-Biological Injuries | U Damage Unknown |
| D Diseases | P Cone and Seedling Fungal Pathogens | V Problem Vegetation |
| I Insects | | |

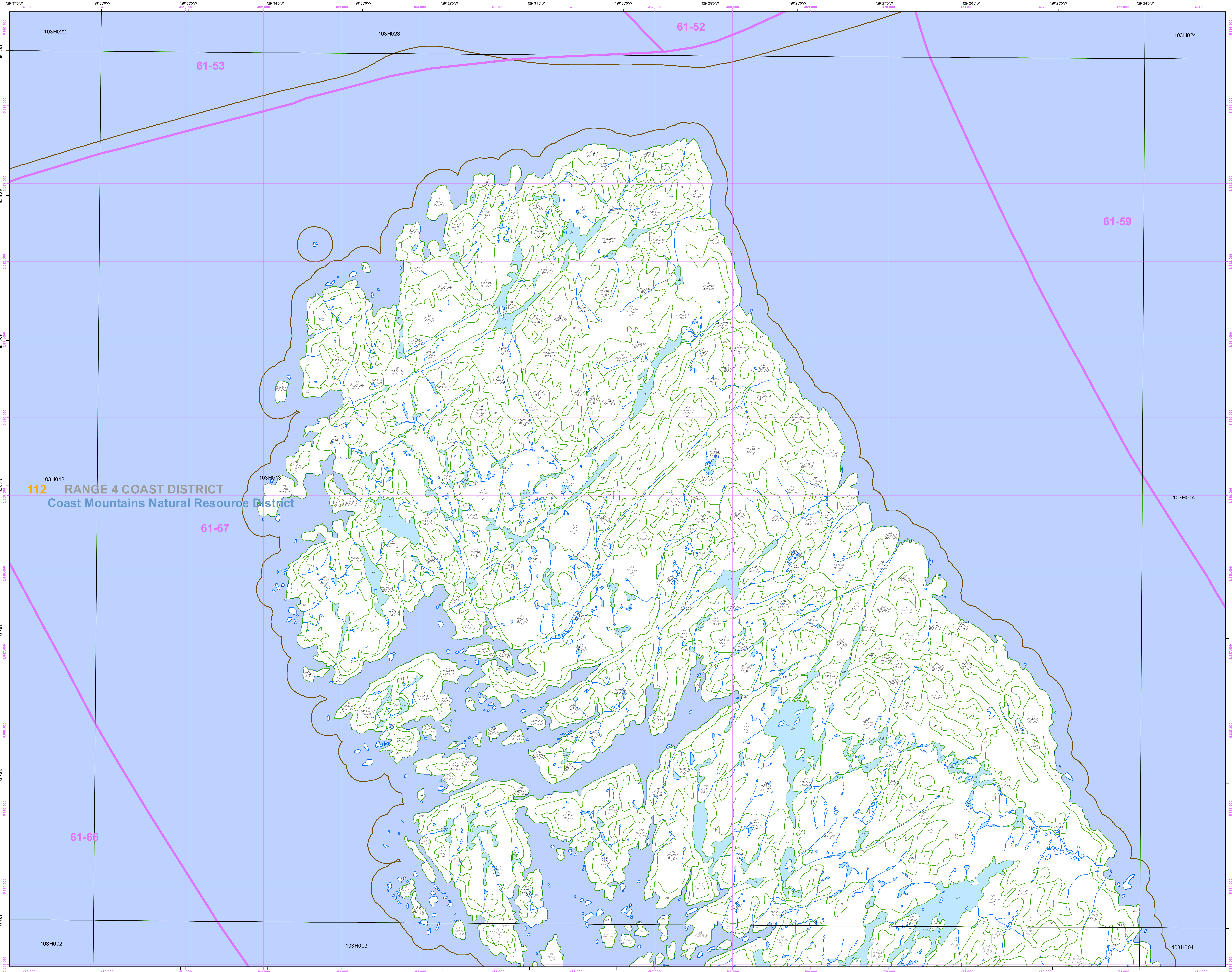
**Example Opening History Details**

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

| | | | |
|---|---|---|---|
| 10 FlYc(CwHw) 823-0/5 | 121 HwCw(YcBa) 935-0/9 | 243 FlYc(HwCw) 811-0/3 NP | 345 CwHw(Yc) 935-0/9 |
| 15 CwHw(Yc) 935-0/11 | 123 CwHw(YcBa) 935-0/9 | 244 FlYc(HwCw) 811-0/3 NP | 346 CwHw(YcPl) 825-0/8 |
| 18 FlYc(CwHw) 824-0/5 | 126 CwYc(FlHw) 811-0/4 NP | 247 HwCw 825-0/7 | 350 HwCw(YcPl) 824-0/5 |
| 23 FlYc(HwCw) 815-0/4 | 129 CwHw(Pl) 824-0/7 | 248 FlYc(HwCw) 811-0/3 NP | 353 CwYc(FlHw) 811-0/4 NP |
| 31 FlYc(CwHw) 821-0/4 | 131 CwHw(Yc) 835-0/9 | 250 CwHw(Yc) 944-0/12 | 354 FlYc(CwHw) 823-0/5 |
| 35 CwHw(YcPl) 824-0/8 | 132 CwHw(Pl) 824-0/7 | 251 CwHw(Yc) 944-0/12 | 357 FlYc(Hw) 811-0/4 |
| 38 FlYc(Hw) 711-0/5 NP | 135 FlYc(Hw) 824-0/5 | 252 YcFlHw 823-0/7 | 369 CwHw(YcSs) 945-0/13 |
| 39 CwHw(YcPl) 824-0/9 | 138 FlYc(HwCw) 824-0/6 | 253 FlYc(Hw) 824-0/9 | 370 FlCw(YcHw) 825-0/9 |
| 43 FlYc(HwCw) 824-0/5 | 139 FlYc(Hw) 824-0/5 | 254 CwHw(Yc) 944-0/12 | 371 FlYc(CwHw) 824-0/7 |
| 45 HwCw(YcPl) 825-0/6 | 140 CwYc(FlHw) 811-0/4 NP | 255 CwHw(Yc) 944-0/12 | 372 CwHw(YcPl) 835-0/12 |
| 47 FlYc(HwCw) 825-0/5 | 141 FlYc(HwCw) 824-0/6 | 264 CwHw(Yc) 944-0/12 | 374 CwHw(YcPl) 835-0/12 |
| 49 CwHw(Yc) 935-0/10 | 143 CwPl(Yc) 824-0/7 | 269 CwHw(Yc) 945-0/12 | 375 CwHw(YcSs) 935-0/11 |
| 50 CwHw(YcPl) 835-0/10 | 146 CwHw(Yc) 824-0/8 | 271 CwHw(Yc) 945-0/12 | 376 CwHw(YcSs) 935-0/11 |
| 51 CwHw(YcPl) 835-0/10 | 150 Fl(YcHw) 810-0/3 NP | 272 CwHw(YcPl) 835-0/12 | 377 CwHw(YcSs) 935-0/11 |
| 53 CwHw(YcPl) 935-0/10 | 154 CwHw 935-0/10 | 277 FlHw(Yc) 823-0/6 | 378 CwHw 935-0/10 |
| 56 FlYc(Hw) 810-0/4 NP | 166 Cw(Hw) 935-0/11 | 282 CwHw(Yc) 944-0/12 | 380 CwPl(HwYc) 824-0/6 |
| 58 FlYc(Hw) 810-0/4 NP | 170 Cw(Hw) 935-0/11 | 285 FlYc(Hw) 811-0/4 NP | 386 FlYc(HwCw) 811-0/3 NP |
| 66 CwHw(Yc) 935-0/12 | 178 YcFl(HwCw) 823-0/8 | 288 CwHw(PlYc) 825-0/9 | 387 FlYc(HwCw) 811-0/3 NP |
| 72 CwHw(Yc) 925-0/7 | 179 YcFl(HwCw) 824-0/8 | 293 CwHw(YcPl) 824-0/7 | 388 HwCw(YcPl) 825-0/7 |
| 75 CwHw(YcPl) 935-0/9 | 180 HwCw(YcPl) 825-0/7 | 301 FlYc(Hw) 811-0/4 NP | 393 CwHwYc 811-0/4 |
| 80 FlYc(HwCw) 824-0/6 | 181 CwHw(YcBa) 935-0/11 | 304 CwHw(Yc) 835-0/10 | 398 FlYc(CwHw) 811-0/3 NP |
| 81 HwYc(PlCw) 825-0/4 | 182 CwHw(PlYc) 825-0/7 | 305 HwCw(Yc) 935-0/9 | 400 FlYc 810-0/4 NP |
| 86 YcCw(HwPl) 812-0/4 NP | 183 CwHw(Yc) 945-0/12 | 307 CwHw(YcPl) 935-0/11 | 401 HwCw(YcPl) 825-0/7 |
| 91 FlYc(HwCw) 824-0/6 | 187 FlYc(Hw) 810-0/3 NP | 309 CwHw(YcPl) 824-0/8 | 403 FlYc(HwCw) 824-0/5 |
| 92 HwCw(YcPl) 935-0/8 | 189 HwCw(Yc) 944-0/10 | 310 CwHw(Yc) 945-0/12 | 404 FlYc(CwHw) 824-0/7 |
| 93 HwCw(YcPl) 824-0/6 | 197 CwFl(YcHw) 925-0/7 | 312 CwHw(YcPl) 935-0/10 | |
| 96 FlYc(Hw) 824-0/6 | 198 FlYc(Hw) 810-0/3 NP | 313 FlYc(HwCw) 823-0/5 NP | |
| 97 HwCw(Yc) 835-0/9 | 199 FlYcHw 823-0/5 | 318 HwCw(YcPl) 824-0/7 | |
| 101 HwCw(YcPl) 935-0/8 | 200 CwHw(YcPl) 824-0/8 | 319 FlYc(CwHw) 824-0/7 | |
| 108 CwHw(YcPl) 825-0/8 | 220 CwHw(YcPl) 824-0/7 | 321 CwHw(Yc) 825-0/6 | |
| 110 HwCw(YcBa) 945-0/12 | 224 YcFl(HwCw) 824-0/8 | 325 CwPl(Yc) 824-0/7 | |
| 111 CwHw(YcPl) 825-0/9 | 229 FlYc(Hw) 822-0/8 | 327 CwYc(FlHw) 824-0/6 | |
| 112 FlYc(HwCw) 825-0/7 | 235 HwCw(Yc) 935-0/11 | 336 FlYc(Hw) 825-0/7 | |
| 114 YcFl(HwCw) 822-0/6 | 241 FlYc(Hw) 824-0/5 | 337 HwCw(YcPl) 825-0/7 | |
| 119 CwHw(Yc) 925-0/8 | 242 FlYc(HwCw) 811-0/3 NP | 340 HwYc(CwPl) 824-0/7 | |