Vegetation Map

092I022

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 *Shagbark 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
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
rn 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

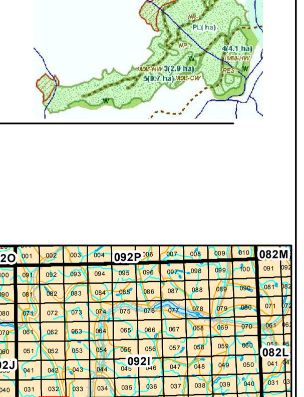
Disturbance type code preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

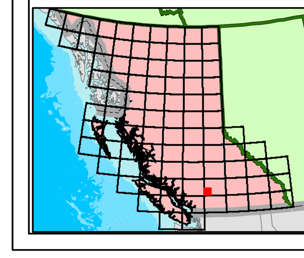
A Animal Damage
B Wildfire
C Cone and Seed Insects
D Diseases
I Insects
L Logging
M Mite Damage
N Non-Biological Injuries
P Cone and Seedling Fungal Pathogens
R Site Rehabilitation
T Treatment Injuries
U Damage Unknown
V Problem Vegetation

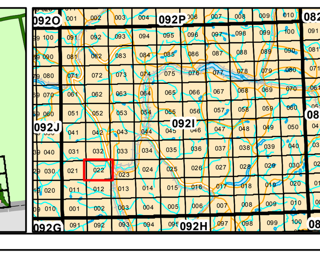
Example Opening History Details

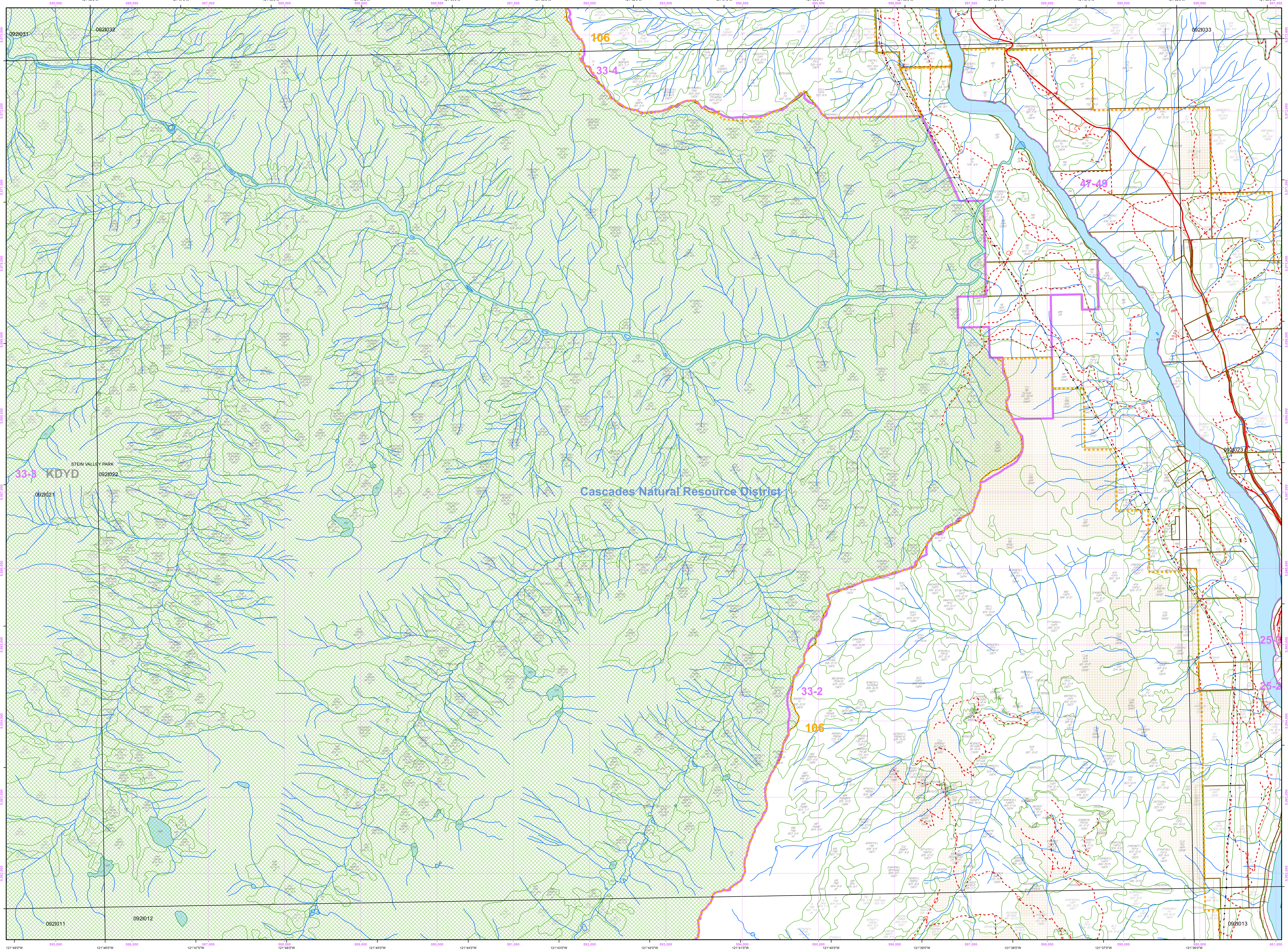
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

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

1 FdSe(AcCw) 856-20/19	299 SxB 835-7/7	○13 772 NSR GL92	○9 17915040 NSR GL90
10 FdSe 834-11/10	341 SxB(PlFd) 836-6/7	○5 791 SxBl 212-15/15 GL87	○9 21125114 NSR GL90
17 FdSe 855-20/19	354 SxB 824-5/6	795 Sx(Fd) 836-8/9	21144533/L FdPl 834-13/13 GL07
21 Fd 833-12/12	372 FdSx(Pl) 833-10/10	18859451/L FdPy 924-8/8 GL07	2151519 FdPl 845-15/14 GL86
25 Fd 833-13/13	412/L Fd(At) 436-16/16	2857458/L PlFd 427-14/13 GL07	○9 21934993 NSR GL90
30 Fd 946-17/16	425 Fd(Pl) 836-13/12	4940437/L Py(Fd) 823-8/6 GL04	22275025/L Pl(Fd) 621-17/12 GL90
31 Fd 946-17/16	443 Fd 835-11/10	6797390/L Fd(Pl) 425-10/9 GL03	22569856/L Py 834-10/8 GL05
32 Fd 835-13/13	446 Fd 835-15/15	8645150 BlSx 212-15/15 GL92	○1 25640235 NSR GN79
37 Fd 856-19/19	452 FdPy 834-13/13	8925200 BlSx 846-14/13	26904554/L Fd(Py) 426-11/10 GL03
38 Fd 845-15/15	461 PyFd 835-9/7	9615298 BlSx(Pl) 211-12/12 GL92	45688491/L PlSx(Fd) 826-8/8 GL03
46 Pl(SxFd) 723-10/10 GL86	465 PyFd 524-11/12	9535349 SxBl(Ba) 212-15/15 GL90	45727434/L Pa(Bl) 722-8/7 AF GL05
47 PlFdSx 735-13/12 GL86	476 Fd(Py) 736-14/13 NP	○11 9665268 Se 210-15/15 GL90	46336410/L Pl(Se) 527-11/10 GL05
55 FdCw(Ac) 846-17/16	487/L FdPy 823-11/11	○11 10079233 Se 210-15/15 GL90	46397265/L Bl(PaSe) 823-9/8 GL07
57 Fd 835-15/14	495 Fd 835-12/12	○11 10279238 Se 210-15/15 GL90	47957417/L Bl(Se) 823-8/8 GL06
65 FdSe 845-15/14	517 Fd(SxPl) 832-10/9	○10 11235777 NSR GL90	48937506/L Pl(SxFd) 824-7/6 GL07
80 FdSx(Pl) 836-11/10	548 SxB 824-5/5	11250986/L Fd(Py) 826-9/9 GL04	49077592/L Bl(FdSe 824-8/6 GL07
81 FdSx(Pl) 836-10/9	576 SxB(PlPa) 825-6/6	11299888/L Py 833-9/8 GL07	49866748/L SxPl 735-11/11 GL06
94 Fd 835-10/9	582 SxPa(BPl) 823-6/6 NP	11455632 Pl(FdB) 211-14/14 GL90	53647928/L SxPl(Fd) 826-8/8 GL04
106 Fd 822-10/9 NP	597 SxB(Pl) 824-5/6	11576331/L Pl(FdAt) 425-12/11 GL07	69196384/L Pl(BPa) 823-8/8 AF GL04
112 Fd 837-13/13	621 PaB 823-6/6 AF	11855773/L PlFd 326-14/12	71816049/L PlSe 624-10/10 GL05
113 Fd 521-11/10 NP	624 SxB 945-7/10	11874574 SxB 846-14/14	74255811/L BSe(PlPa) 825-6/4 GL04
116 Fd 526-11/10	631 BSe 527-10/9	○10 11945881 NSR GL90	74766326/L SxB(Pl) 835-12/11 GL06
130/L FdPy 624-11/10	635 SxB(Pa) 945-8/11 GL86	○10 12045837 NSR GL90	74910752/L PlSxB 625-9/8 GL05
149 PyFd 833-9/7	636 SxB 946-7/10 GL86	13230987 FdPy 828-9/9	75446003/L SxB(Pl) 825-8/8 GL05
150 PyFd 526-10/11	640 BSx(Pa) 727-10/9	○10 13515994 NSR GL90	75610717/L Pl(Se) 824-9/9 GL07
154 Py(Fd) 832-8/6 NP	668 BSe 826-8/6	○10 13815922 NSR GL90	78796660/L SxB(Pl) 837-10/10 GL05
187 FdPy 835-11/10	669 SxB 825-6/6	○10 14265847 NSR GL90	80215491/L BPl(Pa) 824-9/7 AF GL04
206 FdPy 835-11/10	675 SxB(Pl) 823-6/6	○10 15139925 NSR GL90	86947739/L FdPy 415-9/9 GL03
220 FdPy 835-11/10	693 BPa 824-7/5 AF	16624926 SxCwBa 111-15/15 GL92	89677598/L PlFd 426-12/11 GL07
222 FdPy 825-10/10	699 BSx(FdPl) 823-9/7	16845426/L Fd(Pl) 835-13/12 GL04	91167022/L PlFd 724-9/9 GL07
239 Fd 935-10/10	708 BSxFd 846-15/16	○9 16911587 NSR GL90	92686863 Fd 945-14/13
288 A	710 FdSxB 836-13/13	○9 17004987 NSR GL90	95250696/L Fd(Pl) 826-10/10 GL05
293 SxB 836-8/8	739/L FdPy 624-12/12	17006094 Fd 835-14/13	95631620/L PlFdSx(B) 825-12/11 GL06
295 SxB(Pa) 836-8/9	745 PyFd 832-9/7 NP	17385956 PlFdB(Bl) 211-14/14 GL90	99410444/L Fd(Py) 625-10/9 GL06
298 SxB(Pa) 935-6/8	750/L FdPy 834-10/9	○33 17414508 SxB(Bl) 210-10/10 GL86	