

# Package: bcmaps (via r-universe)

December 21, 2024

**Title** Map Layers and Spatial Utilities for British Columbia

**Version** 2.2.1

**Description** Various layers of B.C., including administrative boundaries, natural resource management boundaries, census boundaries etc. All layers are available in BC Albers (<https://spatialreference.org/ref/epsg/3005/>) equal-area projection, which is the B.C. government standard. The layers are sourced from the British Columbia and Canadian government under open licenses, including B.C. Data Catalogue (<https://data.gov.bc.ca/>), the Government of Canada Open Data Portal (<https://open.canada.ca/en/using-open-data>), and Statistics Canada (<https://www.statcan.gc.ca/en/reference/licence>).

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**URL** <https://github.com/bcgov/bcmaps>, <https://bcgov.github.io/bcmaps/>

**BugReports** <https://github.com/bcgov/bcmaps/issues>

**Depends** R (>= 2.10), sf (>= 1.0)

**Imports** bcdata (>= 0.5.0), httr (>= 1.3.1), jsonlite (>= 1.7.0), lifecycle (>= 1.0.3), methods, progress, rappdirs (>= 0.3.1), stats, utils, xml2

**Suggests** future (>= 1.12.0), future.apply (>= 1.2.0), ggplot2 (>= 3.0), glue (>= 1.1.1), knitr, lwgeom (>= 0.2.13), raster (>= 3.6-3), rmarkdown, sp (>= 2.0.0), stars (>= 0.6.3), terra (>= 1.7.0), testthat (>= 2.1.0), withr (>= 2.3)

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 libudunits2-dev libx11-dev

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airzones	<i>British Columbia Air Zones</i>
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---

## Description

British Columbia Air Zones

## Usage

```
airzones(ask = interactive(), force = FALSE)
```

## Arguments

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

## Value

The spatial layer of `airzones` as an `sf` object.

## Source

```
bcdata::bcdata_get_data(record = 'e8eeefc4-2826-47bc-8430-85703d328516', resource = 'c495d082-b586-4df0-
```

## See Also

Other BC layers: [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- airzones()

## End(Not run)
```

---

available_layers	<i>List available data layers</i>
------------------	-----------------------------------

---

**Description**

A data.frame of all available layers in the bcmeps package. This drawn directly from the B.C. Data Catalogue and will therefore be the most current list layers available.

**Usage**

```
available_layers()
```

**Value**

A data.frame of layers, with titles, and a shortcut\_function column denoting whether or not a shortcut function exists that can be used to return the layer. If TRUE, the name of the shortcut function is the same as the layer\_name. A value of FALSE in this column means the layer is available via get\_data() but there is no shortcut function for it.

A value of FALSE in the local column means that the layer is not stored in the bcmeps package but will be downloaded from the internet and cached on your hard drive.

**Examples**

```
## Not run:
available_layers()

## End(Not run)
```

---

bc_area	<i>The size of British Columbia</i>
---------	-------------------------------------

---

**Description**

Total area, Land area only, or Freshwater area only, in the units of your choosing.

**Usage**

```
bc_area(what = "total", units = "km2")
```

**Arguments**

what	Which part of BC? One of 'total' (default), 'land', or 'freshwater'.
units	One of 'km2' (square kilometres; default), 'm2' (square metres), 'ha' (hectares), 'acres', or 'sq_mi' (square miles)

**Details**

The sizes are from [Statistics Canada](#)

**Value**

The area of B.C. in the desired units (numeric vector).

**Examples**

```
## With no arguments, gives the total area in km^2:  
bc_area()  
  
## Get the area of the land only, in hectares:  
bc_area("land", "ha")
```

---

bc\_bbox

*Get an extent/bounding box for British Columbia*

---

**Description**

Get an extent/bounding box for British Columbia

**Usage**

```
bc_bbox(class = c("sf", "raster"), crs = 3005)
```

**Arguments**

class	"sf", "raster".
crs	coordinate reference system: integer with the EPSG code, or character with proj4string. Default 3005 (BC Albers).

**Value**

an object denoting a bounding box of British Columbia, of the corresponding class specified in class.

**Examples**

```
## Not run:
  bc_bbox("sf")
  bc_bbox("raster")

## End(Not run)
```

---

bc_bound	<i>BC Boundary</i>
----------	--------------------

---

**Description**

BC Boundary

**Usage**

```
bc_bound(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of interactive().
force	Should you force download the data?

**Value**

The spatial layer of bc\_bound as an sf object

**Source**

```
bcdata::bcdc_get_data('b9bd93e1-0226-4351-b943-05c6f80bd5da')
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- bc_bound()

## End(Not run)
```

---

bc_bound_hres	<i>BC Boundary - High Resolution</i>
---------------	--------------------------------------

---

## Description

BC Boundary - High Resolution

## Usage

```
bc_bound_hres(ask = interactive(), force = FALSE)
```

## Arguments

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

## Value

The spatial layer of `bc_bound_hres` as an `sf` object

## Source

```
bcdc_get_data(record = '30aeb5c1-4285-46c8-b60b-15b1a6f4258b', resource = '3d72cf36-ab53-4a2a-9988-a88',  
layer = 'BC_Boundary_Terrestrial_Multipart')
```

## See Also

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

## Examples

```
## Not run:  
my_layer <- bc_bound_hres()  
  
## End(Not run)
```

---

`bc_cities`*BC Major Cities Points*

---

## Description

BC Major Cities Points

## Usage

```
bc_cities(ask = interactive(), force = FALSE)
```

## Arguments

<code>ask</code>	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
<code>force</code>	Should you force download the data?

## Value

The spatial layer of `bc_cities` as an `sf` object.

## Source

```
bcdata::bcdata_get_data(record = 'b678c432-c5c1-4341-88db-0d6befa0c7f8', resource = '443dd858-2e37-4a8f-
```

## See Also

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

## Examples

```
## Not run:  
my_layer <- bc_cities()  
  
## End(Not run)
```



---

bc_neighbours	<i>Boundary of British Columbia, provinces/states and the portion of the Pacific Ocean that borders British Columbia</i>
---------------	--

---

**Description**

Boundary of British Columbia, provinces/states and the portion of the Pacific Ocean that borders British Columbia

**Usage**

```
bc_neighbours(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of interactive().
force	Should you force download the data?

**Value**

The spatial layer of bc\_neighbours as an sf object

**Source**

```
bcdata::bcdata_get_data('b9bd93e1-0226-4351-b943-05c6f80bd5da')
```

**Examples**

```
## Not run:  
my_layer <- bc_neighbours()  
  
## End(Not run)
```

---

bec	<i>British Columbia BEC Map</i>
-----	---------------------------------

---

**Description**

British Columbia BEC Map

**Usage**

```
bec(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of interactive().
force	Should you force download the data?

**Value**

The spatial layer of bec as an sf object.

**Source**

bcdata::bccdc\_get\_data(record = 'f358a53b-ffde-4830-a325-a5a03ff672c3', resource = '3ec24cb4-f78d-48a9-

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- bec()

## End(Not run)
```

---

bec\_colours

*Biogeoclimatic Zone Colours*

---

**Description**

Standard colours used to represent Biogeoclimatic Zone colours to be used in plotting.

**Usage**

```
bec_colours()
```

```
bec_colors()
```

**Value**

named vector of hexadecimal colour codes. Names are standard abbreviations of Zone names.

## Examples

```
## Not run:
if (require(sf) && require(ggplot2)) {
  bec <- bec()
  ggplot() +
    geom_sf(data = bec[bec$ZONE %in% c("BG", "PP"),],
            aes(fill = ZONE, col = ZONE)) +
    scale_fill_manual(values = bec_colors()) +
    scale_colour_manual(values = bec_colours())
}

## End(Not run)
```

---

 cded

*Canadian Digital Elevation Model (CDED)*


---

## Description

Digital Elevation Model (DEM) for British Columbia produced by GeoBC. This data is the TRIM DEM converted to the Canadian Digital Elevation Data (CDED) format. The data consists of an ordered array of ground or reflective surface elevations, recorded in metres, at regularly spaced intervals. The spacing of the grid points is .75 arc seconds north/south. The data was converted into 1:50,000 grids for distribution. The scale of this modified data is 1:250,000 which was captured from the original source data which was at a scale of 1:20,000.

## Usage

```
cded(
  aoi = NULL,
  tiles_50K = NULL,
  .predicate = sf::st_intersects,
  dest_vrt = tempfile(fileext = ".vrt"),
  ask = interactive(),
  check_tiles = TRUE
)
```

## Arguments

aoi	Area of Interest. Currently supports sf and sp polygons, stars and raster objects.
tiles_50K	a character vector of 1:50,000 NTS mapsheet tiles
.predicate	geometry predicate function used to find the mapsheets from your aoi. Default <a href="#">sf::st_intersects</a> .
dest_vrt	The location of the vrt file. Defaults to a temporary file, but can be overridden if you'd like to save it for a project
ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of interactive().

`check_tiles` Should the tiles that you already have in your cache be checked to see if they need updating? Default TRUE. If you are running the same code frequently and are confident the tiles haven't changed, setting this to FALSE will speed things up.

### Value

path to a .vrt file of the cded tiles for the specified area of interest

### Examples

```
## Not run:
vic <- census_subdivision()[census_subdivision()$CENSUS_SUBDIVISION_NAME == "Victoria", ]
vic_cded <- cded(aoi = vic)

## End(Not run)
```

---

cded\_stars

*Get Canadian Digital Elevation Model (CDED) as a stars object*

---

### Description

Get Canadian Digital Elevation Model (CDED) as a stars object

### Usage

```
cded_stars(
  aoi = NULL,
  tiles_50K = NULL,
  .predicate = sf::st_intersects,
  dest_vrt = tempfile(fileext = ".vrt"),
  ask = interactive(),
  check_tiles = TRUE,
  ...
)
```

### Arguments

<code>aoi</code>	Area of Interest. Currently supports sf and sp polygons, stars and raster objects.
<code>tiles_50K</code>	a character vector of 1:50,000 NTS mapsheet tiles
<code>.predicate</code>	geometry predicate function used to find the mapsheets from your aoi. Default <a href="#">sf::st_intersects</a> .
<code>dest_vrt</code>	The location of the vrt file. Defaults to a temporary file, but can be overridden if you'd like to save it for a project
<code>ask</code>	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .

`check_tiles` Should the tiles that you already have in your cache be checked to see if they need updating? Default TRUE. If you are running the same code frequently and are confident the tiles haven't changed, setting this to FALSE will speed things up.

... Further arguments passed on to [stars::read\\_stars](#)

**Value**

a stars object of the cded tiles for the specified area of interest

**Examples**

```
## Not run:
vic <- census_subdivision()[census_subdivision()$CENSUS_SUBDIVISION_NAME == "Victoria", ]
vic_cded <- cded_stars(aoi = vic)

## End(Not run)
```

---

*cded\_terra*                      *Get Canadian Digital Elevation Model (CDED) as a terra object*

---

**Description**

Get Canadian Digital Elevation Model (CDED) as a terra object

**Usage**

```
cded_terra(
  aoi = NULL,
  tiles_50K = NULL,
  .predicate = sf::st_intersects,
  dest_vrt = tempfile(fileext = ".vrt"),
  ask = interactive(),
  check_tiles = TRUE,
  ...
)
```

**Arguments**

`aoi` Area of Interest. Currently supports sf and sp polygons, stars and raster objects.

`tiles_50K` a character vector of 1:50,000 NTS mapsheet tiles

`.predicate` geometry predicate function used to find the mapsheets from your aoi. Default [sf::st\\_intersects](#).

`dest_vrt` The location of the vrt file. Defaults to a temporary file, but can be overridden if you'd like to save it for a project

`ask` Should the function ask the user before downloading the data to a cache? Defaults to the value of `interactive()`.

check\_tiles      Should the tiles that you already have in your cache be checked to see if they need updating? Default TRUE. If you are running the same code frequently and are confident the tiles haven't changed, setting this to FALSE will speed things up.

...              Further arguments passed on to `terra::rast()`

**Value**

a terra object of the cded tiles for the specified area of interest

**Examples**

```
## Not run:
vic <- census_subdivision()[census_subdivision()$CENSUS_SUBDIVISION_NAME == "Victoria", ]
vic_cded <- cded_terra(aoi = vic)

## End(Not run)
```

---

census\_dissemination\_area

*Current Census Dissemination Areas*

---

**Description**

Current Census Dissemination Areas

**Usage**

```
census_dissemination_area(ask = interactive(), force = FALSE)
```

**Arguments**

ask              Should the function ask the user before downloading the data to a cache? Defaults to the value of `interactive()`.

force            Should you force download the data?

**Value**

The spatial layer of `census_dissemination_area` as an sf object.

**Source**

```
bcdata::bcdata_get_data(record = 'a091fd65-d682-4a24-8c0e-68de7c87e3a3', resource = 'a7fa66d4-0f95-4c58-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- census_dissemination_area()

## End(Not run)
```

---

census_division	<i>Current Census Division Boundaries</i>
-----------------	---

---

**Description**

Current Census Division Boundaries

**Usage**

```
census_division(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

**Value**

The spatial layer of `census_division` as an `sf` object.

**Source**

```
bcddata::bcd_get_data(record = 'ef17918a-597a-4012-8534-f8e71d8735b3', resource = '36b530c2-1de6-44a2-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- census_division()

## End(Not run)
```

---

census_economic	<i>Current Census Economic Region Boundaries</i>
-----------------	--

---

**Description**

Current Census Economic Region Boundaries

**Usage**

```
census_economic(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of interactive().
force	Should you force download the data?

**Value**

The spatial layer of census\_economic as an sf object.

**Source**

```
bcdata::bcdata_get_data(record = '1aebc451-a41c-496f-8b18-6f414cde93b7', resource = '3f0236cf-b1a1-4f1a-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- census_economic()

## End(Not run)
```



---

`census_metropolitan_area`*Current Census Metropolitan Areas*

---

## Description

Current Census Metropolitan Areas

## Usage

```
census_metropolitan_area(ask = interactive(), force = FALSE)
```

## Arguments

<code>ask</code>	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
<code>force</code>	Should you force download the data?

## Value

The spatial layer of `census_metropolitan_area` as an sf object.

## Source

```
bcdata::bcdata_get_data(record = 'a6fb34b7-0937-4718-8f1f-43dba2c0f407', resource = 'f129a965-363e-4d7e-
```

## See Also

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsa\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

## Examples

```
## Not run:  
my_layer <- census_metropolitan_area()  
  
## End(Not run)
```

---

census\_subdivision      *Current Census Subdivision Boundaries*

---

### Description

Current Census Subdivision Boundaries

### Usage

```
census_subdivision(ask = interactive(), force = FALSE)
```

### Arguments

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

### Value

The spatial layer of `census_subdivision` as an sf object.

### Source

```
bcdata::bcdata_get_data(record = '4c5618c6-38dd-4a62-a3de-9408b4974bb6', resource = '98bd1222-57bb-4504-
```

### See Also

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

### Examples

```
## Not run:  
my_layer <- census_subdivision()  
  
## End(Not run)
```

---

census_tract	<i>Current Census Tract Boundaries</i>
--------------	--

---

### Description

Current Census Tract Boundaries

### Usage

```
census_tract(ask = interactive(), force = FALSE)
```

### Arguments

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

### Value

The spatial layer of `census_tract` as an `sf` object.

### Source

```
bcdata::bcdata_get_data(record = '539aae5b-12f6-4934-9592-9b27acc827f8', resource = 'be767db6-0d4e-4906-
```

### See Also

Other BC layers: `airzones()`, `bc_bound()`, `bc_bound_hres()`, `bc_cities()`, `bec()`, `census_dissemination_area()`, `census_division()`, `census_economic()`, `census_metropolitan_area()`, `census_subdivision()`, `ecoprovinces()`, `ecoregions()`, `ecosections()`, `fsa()`, `gw_aquifers()`, `health_chsa()`, `health_ha()`, `health_hsda()`, `health_lha()`, `hydrozones()`, `mapsheets_250K()`, `mapsheets_50K()`, `municipalities()`, `nr_areas()`, `nr_districts()`, `nr_regions()`, `regional_districts()`, `tsa()`, `water_districts()`, `water_precincts()`, `watercourses_15M()`, `watercourses_5M()`, `wsc_drainages()`

### Examples

```
## Not run:  
my_layer <- census_tract()  
  
## End(Not run)
```

---

combine_nr_rd	<i>Combine Northern Rockies Regional Municipality with Regional Districts</i>
---------------	---

---

**Description**

Combine Northern Rockies Regional Municipality with Regional Districts

**Usage**

```
combine_nr_rd()
```

**Value**

A layer where the Northern Rockies Regional Municipality has been combined with the Regional Districts to form a full provincial coverage.

---

delete_cache	<i>View and delete cached files</i>
--------------	-------------------------------------

---

**Description**

View and delete cached files

Show the files you have in your cache

**Usage**

```
delete_cache(files_to_delete = NULL)
```

```
show_cached_files()
```

**Arguments**

files\_to\_delete

An optional argument to specify which files or layers should be deleted from the cache. Defaults to deleting all files pausing for permission from user. If a subset of files are specified, the files are immediately deleted.

**Value**

delete\_cache(): A logical of whether the file(s) were successful deleted

show\_cached\_files(): a data.frame with the columns:

- file, the name of the file,
- size\_MB, file size in MB,
- is\_dir, is it a directory? If you have cached tiles from the `cded()` functions, there will be a row in the data frame showing the total size of the cded tiles cache directory.
- modified, date and time last modified

**Examples**

```
## Not run:
## See which files you have
show_cached_files()

## Delete your whole cache
delete_cache()

## Specify which files are deleted
delete_cache(c('regional_districts.rds', 'bc_cities.rds'))

## End(Not run)
```

---

ecoprovinces

*British Columbia Ecoprovinces*


---

**Description**

British Columbia Ecoprovinces

**Usage**

```
ecoprovinces(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

**Value**

The spatial layer of ecoprovinces as an sf object.

**Source**

```
bcdata::bcdata_get_data(record = '51832f47-efdf-4956-837a-45fc2c9032dd', resource = '811fcedb-1a53-4574-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- ecoprovinces()

## End(Not run)
```

---

ecoregions	<i>British Columbia Ecoregions</i>
------------	------------------------------------

---

**Description**

British Columbia Ecoregions

**Usage**

```
ecoregions(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

**Value**

The spatial layer of ecoregions as an sf object.

**Source**

```
bcdata::bcdata_get_data(record = 'd00389e0-66da-4895-bd56-39a0dd64aa78', resource = 'bd816a86-4f5e-4989-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- ecoregions()

## End(Not run)
```

---

ecosections

*British Columbia Ecosections*

---

## Description

British Columbia Ecosections

## Usage

```
ecosections(ask = interactive(), force = FALSE)
```

## Arguments

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

## Value

The spatial layer of ecosections as an sf object.

## Source

```
bcdata::bcdata_get_data(record = 'ccc01f43-860d-4583-8ba4-e72d8379441e', resource = '6b6a3122-7a0b-4c0f-
```

## See Also

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

## Examples

```
## Not run:  
my_layer <- ecosections()  
  
## End(Not run)
```

---

fsa

*British Columbia Forward Sortation Areas*

---

### Description

British Columbia Forward Sortation Areas

### Usage

```
fsa(ask = interactive(), force = FALSE)
```

### Arguments

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

### Source

[http://www12.statcan.gc.ca/census-recensement/2011/geo/bound-limit/files-fichiers/2016/lfsa000b16a\\_e.zip](http://www12.statcan.gc.ca/census-recensement/2011/geo/bound-limit/files-fichiers/2016/lfsa000b16a_e.zip)

### See Also

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

### Examples

```
## Not run:  
my_layer <- fsa()  
  
## End(Not run)
```



---

get_layer	<i>Get a B.C. spatial layer</i>
-----------	---------------------------------

---

**Description**

Get a B.C. spatial layer

**Usage**

```
get_layer(layer, ask = interactive(), force = FALSE)
```

**Arguments**

layer	the name of the layer. The list of available layers can be obtained by running <code>available_layers()</code>
ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

**Value**

the layer requested

**Examples**

```
## Not run:  
get_layer("bc_bound_hres")  
  
## End(Not run)
```

---

gw_aquifers	<i>British Columbia's developed ground water aquifers</i>
-------------	---

---

**Description**

British Columbia's developed ground water aquifers

**Usage**

```
gw_aquifers(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

**Value**

The spatial layer of gw\_aquifers as an sf object.

**Source**

```
bcdata::bcdata_get_data(record = '099d69c5-1401-484d-9e19-c121ccb7977c', resource = '8f421e3a-ccd3-4fab-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- gw_aquifers()

## End(Not run)
```

---

health\_chsa

*Community Health Service Areas - CHSA*

---

**Description**

Community Health Service Areas - CHSA

**Usage**

```
health_chsa(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of interactive().
force	Should you force download the data?

**Value**

The spatial layer of health\_chsa as an sf object.

**Source**

```
bcdata::bcdata_get_data(record = '68f2f577-28a7-46b4-bca9-7e9770f2f357', resource = '59065b51-511a-4976-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_ha\(\)](#), [health\\_hsa\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- health_chsa()

## End(Not run)
```

---

health_ha	<i>Health Authority Boundaries</i>
-----------	------------------------------------

---

**Description**

Health Authority Boundaries

**Usage**

```
health_ha(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

**Value**

The spatial layer of `health_ha` as an `sf` object.

**Source**

```
bcdata::bcdata_get_data(record = '7bc6018f-bb4f-4e5d-845e-c529e3d1ac3b', resource = '93b79a3c-2da4-4fd4-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_hsa\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- health_ha()

## End(Not run)
```

health\_hsd

*Health Service Delivery Area Boundaries***Description**

Health Service Delivery Area Boundaries

**Usage**

```
health_hsd(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

**Value**

The spatial layer of `health_hsd` as an `sf` object.

**Source**

```
bcdata::bcdata_get_data(record = '71c930b9-563a-46da-a10f-ead49ccbc390', resource = 'c5dad467-229b-4378-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- health_hsd()

## End(Not run)
```

---

health_lha	<i>Local Health Area Boundaries</i>
------------	-------------------------------------

---

### Description

Local Health Area Boundaries

### Usage

```
health_lha(ask = interactive(), force = FALSE)
```

### Arguments

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

### Value

The spatial layer of `health_lha` as an `sf` object.

### Source

```
bcdata::bcdata_get_data(record = 'afd021d9-7722-4410-b506-d394c66e74fc', resource = 'd6e951d3-5103-475a-
```

### See Also

Other BC layers: `airzones()`, `bc_bound()`, `bc_bound_hres()`, `bc_cities()`, `bec()`, `census_dissemination_area()`, `census_division()`, `census_economic()`, `census_metropolitan_area()`, `census_subdivision()`, `census_tract()`, `ecoprovinces()`, `ecoregions()`, `ecosections()`, `fsa()`, `gw_aquifers()`, `health_chsa()`, `health_ha()`, `health_hsda()`, `hydrozones()`, `mapsheets_250K()`, `mapsheets_50K()`, `municipalities()`, `nr_areas()`, `nr_districts()`, `nr_regions()`, `regional_districts()`, `tsa()`, `water_districts()`, `water_precincts()`, `watercourses_15M()`, `watercourses_5M()`, `wsc_drainages()`

### Examples

```
## Not run:  
my_layer <- health_lha()  
  
## End(Not run)
```

---

hydrozones

*Hydrologic Zone Boundaries of British Columbia*

---

## Description

Hydrologic Zone Boundaries of British Columbia

## Usage

```
hydrozones(ask = interactive(), force = FALSE)
```

## Arguments

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

## Value

The spatial layer of hydrozones as an sf object.

## Source

```
bcdata::bcdata_get_data(record = '329fd234-8835-4d44-9aaa-97c37bfc8d92', resource = 'baeb665e-85c7-4a7b-
```

## See Also

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

## Examples

```
## Not run:  
my_layer <- hydrozones()  
  
## End(Not run)
```

---

`mapsheets_250K`*NTS 250K Grid - Digital Baseline Mapping at 1:250,000 (NTS)*

---

**Description**

NTS 250K Grid - Digital Baseline Mapping at 1:250,000 (NTS)

**Usage**

```
mapsheets_250K()
```

**Value**

The spatial layer of `mapsheets_250K` as an `sf` object.

**Source**

<https://open.canada.ca/data/en/dataset/055919c2-101e-4329-bfd7-1d0c333c0e62>

**See Also**

Other BC layers: `airzones()`, `bc_bound()`, `bc_bound_hres()`, `bc_cities()`, `bec()`, `census_dissemination_area()`, `census_division()`, `census_economic()`, `census_metropolitan_area()`, `census_subdivision()`, `census_tract()`, `ecoprovinces()`, `ecoregions()`, `ecosections()`, `fsa()`, `gw_aquifers()`, `health_chsa()`, `health_ha()`, `health_hsda()`, `health_lha()`, `hydrozones()`, `mapsheets_50K()`, `municipalities()`, `nr_areas()`, `nr_districts()`, `nr_regions()`, `regional_districts()`, `tsa()`, `water_districts()`, `water_precincts()`, `watercourses_15M()`, `watercourses_5M()`, `wsc_drainages()`

**Examples**

```
## Not run:  
my_layer <- mapsheets_250K()  
  
## End(Not run)
```

---

`mapsheets_50K`*NTS 50K Grid - Digital Baseline Mapping at 1:50,000 (NTS)*

---

**Description**

NTS 50K Grid - Digital Baseline Mapping at 1:50,000 (NTS)

**Usage**

```
mapsheets_50K()
```

**Value**

The spatial layer of mapsheets\_50K as an sf object.

**Source**

<https://open.canada.ca/data/en/dataset/055919c2-101e-4329-bfd7-1d0c333c0e62>

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsdA\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- mapsheets_50K()

## End(Not run)
```

---

municipalities

*British Columbia Municipalities*


---

**Description**

British Columbia Municipalities

**Usage**

```
municipalities(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of interactive().
force	Should you force download the data?

**Value**

The spatial layer of municipalities as an sf object.

**Source**

```
bcdata::bcdata_get_data(record = 'e3c3c580-996a-4668-8bc5-6aa7c7dc4932', resource = '25c95b07-5882-47ff-
```



**See Also**

`combine_nr_rd()` to combine Regional Districts and the Northern Rockies Regional Municipality into one layer

Other BC layers: `airzones()`, `bc_bound()`, `bc_bound_hres()`, `bc_cities()`, `bec()`, `census_dissemination_area()`, `census_division()`, `census_economic()`, `census_metropolitan_area()`, `census_subdivision()`, `census_tract()`, `ecoprovinces()`, `ecoregions()`, `ecosections()`, `fsa()`, `gw_aquifers()`, `health_chsa()`, `health_ha()`, `health_hsda()`, `health_lha()`, `hydrozones()`, `mapsheets_250K()`, `mapsheets_50K()`, `nr_areas()`, `nr_districts()`, `nr_regions()`, `regional_districts()`, `tsa()`, `water_districts()`, `water_precincts()`, `watercourses_15M()`, `watercourses_5M()`, `wsc_drainages()`

**Examples**

```
## Not run:
my_layer <- municipalities()

## End(Not run)
```

---

nr\_areas

*British Columbia Natural Resource (NR) Areas*


---

**Description**

British Columbia Natural Resource (NR) Areas

**Usage**

```
nr_areas(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

**Value**

The spatial layer of `nr_areas` as an `sf` object.

**Source**

```
bcdata::bcdata_get_data(record = 'c1861ba4-abb8-4947-b3e5-7f7c4d7257d5', resource = '4b317896-1a42-4c03-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- nr_areas()

## End(Not run)
```

---

nr\_districts

*British Columbia Natural Resource (NR) Districts*


---

**Description**

British Columbia Natural Resource (NR) Districts

**Usage**

```
nr_districts(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

**Value**

The spatial layer of `nr_districts` as an sf object.

**Source**

```
bcddata::bcd_get_data(record = '0bc73892-e41f-41d0-8d8e-828c16139337', resource = 'e6676e55-2a6f-4b2b-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- nr_districts()

## End(Not run)
```

---

nr_regions	<i>British Columbia Natural Resource (NR) Regions</i>
------------	---

---

**Description**

British Columbia Natural Resource (NR) Regions

**Usage**

```
nr_regions(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

**Value**

The spatial layer of `nr_regions` as an `sf` object.

**Source**

```
bcdata::bcd_get_data(record = 'dfc492c0-69c5-4c20-a6de-2c9bc999301f', resource = 'ec636f64-9c5f-4704-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- nr_regions()

## End(Not run)
```

---

raster_by_poly	<i>Overlay a SpatialPolygonsDataFrame or sf polygons layer on a raster layer and clip the raster to each polygon. Optionally done in parallel</i>
----------------	---

---

### Description

Overlay a SpatialPolygonsDataFrame or sf polygons layer on a raster layer and clip the raster to each polygon. Optionally done in parallel

### Usage

```
raster_by_poly(
  raster_layer,
  poly,
  poly_field,
  summarize = FALSE,
  parallel = FALSE
)
```

### Arguments

raster_layer	the raster layer
poly	a SpatialPolygonsDataFrame layer or sf layer
poly_field	the field on which to split the SpatialPolygonsDataFrame
summarize	Should the function summarise the raster values in each polygon to a vector? Default FALSE
parallel	process in parallel? Default FALSE. If TRUE, it is up to the user to call <code>future::plan()</code> (or set <code>options</code> ) to specify what parallel strategy to use.

### Value

a list of RasterLayers if summarize = FALSE otherwise a list of vectors.

---

regional_districts	<i>British Columbia Regional Districts</i>
--------------------	--

---

### Description

British Columbia Regional Districts

### Usage

```
regional_districts(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

**Value**

The spatial layer of `regional_districts` as an `sf` object.

**Source**

`bcdata::bcdata_get_data(record = 'd1aff64e-dbfe-45a6-af97-582b7f6418b9', resource = '57c7f719-dc87-415c-`

**See Also**

[combine\\_nr\\_rd\(\)](#) to combine Regional Districts and the Northern Rockies Regional Municipality into one layer

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- regional_districts()

## End(Not run)
```

---

`summarize_raster_list` *Summarize a list of rasters into a list of numeric vectors*

---

**Description**

Summarize a list of rasters into a list of numeric vectors

**Usage**

```
summarize_raster_list(raster_list, parallel = FALSE)
```

**Arguments**

raster_list	list of rasters
parallel	process in parallel? Default FALSE. If TRUE, it is up to the user to call <a href="#">future::plan()</a> (or set <a href="#">options</a> ) to specify what parallel strategy to use.

**Value**

a list of numeric vectors

---

`transform_bc_albers`     *Transform a Spatial\* object to BC Albers projection*

---

**Description**

The `Spatial` method has been removed as of `bcmaps 2.0.0`. The `sf` method is here to stay.

**Usage**

```
transform_bc_albers(obj)
```

**Arguments**

`obj`                    The `sf` object to transform.

**Value**

the `sf` object in BC Albers projection

---

`tsa`                      *British Columbia Timber Supply Areas and TSA Blocks*

---

**Description**

British Columbia Timber Supply Areas and TSA Blocks

**Usage**

```
tsa(ask = interactive(), force = FALSE)
```

**Arguments**

`ask`                    Should the function ask the user before downloading the data to a cache? Defaults to the value of `interactive()`.

`force`                  Should you force download the data?

**Value**

The spatial layer of `tsa` as an `sf` object.

**Source**

```
bcdata::bcdata_get_data(record = '8daa29da-d7f4-401c-83ae-d962e3a28980', resource = '6851f8a6-77b9-4555-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- tsa()

## End(Not run)
```

---

utm_convert	<i>Convert a data.frame of UTM coordinates to an sf object with a single CRS</i>
-------------	--

---

**Description**

This can operate on a data frame containing coordinates from multiple UTM zones with a column denoting the zone, or a single zone for the full dataset.

**Usage**

```
utm_convert(
  x,
  easting,
  northing,
  zone,
  crs = "EPSG:3005",
  datum = c("NAD83", "WGS84"),
  xycols = TRUE
)
```

**Arguments**

x	data.frame containing UTM coordinates, with a zone column
easting	the name of the 'easting' column
northing	the name of the 'northing' column
zone	the name of the 'zone' column, or a single value if the data are all in one UTM zone
crs	target CRS. Default BC Albers (EPSG:3005)
datum	The datum of the source data. "NAD83" (Default) or "WGS84"
xycols	should the X and Y columns be appended to the output? TRUE or FALSE

**Details**

It supports data collected in either the NAD83 or WGS84 ellipsoid in the Northern hemisphere

**Value**

sf object in the chosen CRS

**Examples**

```
# Data with multiple zones, and a column denoting the zone
df <- data.frame(
  animalid = c("a", "b", "c"),
  zone = c(10, 11, 11),
  easting = c(500000, 800000, 700000),
  northing = c(5000000, 3000000, 1000000)
)
utm_convert(df, easting = "easting", northing = "northing", zone = "zone")

# Data all in one zone, specify a single zone:
df <- data.frame(
  animalid = c("a", "b"),
  easting = c(500000, 800000),
  northing = c(5000000, 3000000)
)
utm_convert(df, easting = "easting", northing = "northing", zone = 11)
```

---

vrt\_files

*List the files that a vrt is built on*

---

**Description**

List the files that a vrt is built on

**Usage**

```
vrt_files(vrt, omit_vrt = FALSE)
```

**Arguments**

vrt	path to a .vrt file
omit_vrt	omit the listing of the original vrt. Default FALSE

**Value**

character vector of files



---

vrt_info	<i>Get metadata about a .vrt file</i>
----------	---------------------------------------

---

**Description**

Get metadata about a .vrt file

**Usage**

```
vrt_info(vrt, options = character(0), quiet = FALSE)
```

**Arguments**

vrt	path to a .vrt file
options	options to pass to gdalinfo. See <a href="#">here</a> for possible options.
quiet	suppress output to the console (default FALSE)

**Value**

character of vrt metadata

---

watercourses_15M	<i>British Columbia watercourses at 1:15M scale</i>
------------------	---

---

**Description**

British Columbia watercourses at 1:15M scale

**Usage**

```
watercourses_15M(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of interactive().
force	Should you force download the data?

**Value**

The spatial layer of watercourses\_15M as an sf object.

**Source**

[https://ftp.maps.canada.ca/pub/nrcan\\_rncan/vector/canvec/fgdb/Hydro/canvec\\_15M\\_CA\\_Hydro\\_fgdb.zip](https://ftp.maps.canada.ca/pub/nrcan_rncan/vector/canvec/fgdb/Hydro/canvec_15M_CA_Hydro_fgdb.zip)

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

**Examples**

```
## Not run:
my_layer <- watercourses_15M()

## End(Not run)
```

---

watercourses\_5M

*British Columbia watercourses at 1:5M scale*

---

**Description**

British Columbia watercourses at 1:5M scale

**Usage**

```
watercourses_5M(ask = interactive(), force = FALSE)
```

**Arguments**

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

**Value**

The spatial layer of `watercourses_5M` as an `sf` object.

**Source**

[https://ftp.maps.canada.ca/pub/nrcan\\_rncan/vector/canvec/fgdb/Hydro/canvec\\_5M\\_CA\\_Hydro\\_fgdb.zip](https://ftp.maps.canada.ca/pub/nrcan_rncan/vector/canvec/fgdb/Hydro/canvec_5M_CA_Hydro_fgdb.zip)

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [wsc\\_drainages\(\)](#)

## Examples

```
## Not run:  
my_layer <- watercourses_5M()  
  
## End(Not run)
```

---

water_districts	<i>British Columbia's Water Management Districts</i>
-----------------	--

---

## Description

British Columbia's Water Management Districts

## Usage

```
water_districts(ask = interactive(), force = FALSE)
```

## Arguments

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

## Value

The spatial layer of `water_districts` as an `sf` object.

## Source

```
bcdata::bccdc_get_data(record = '92cb3ad8-9582-48a9-9e79-9a9d33601e50', resource = '07f9aa3f-0b66-4a49-
```

## See Also

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsdA\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

## Examples

```
## Not run:  
my_layer <- water_districts()  
  
## End(Not run)
```

---

water\_precincts      *British Columbia's Water Management Precincts*

---

### Description

British Columbia's Water Management Precincts

### Usage

```
water_precincts(ask = interactive(), force = FALSE)
```

### Arguments

ask	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
force	Should you force download the data?

### Value

The spatial layer of `water_precincts` as an `sf` object.

### Source

```
bcdata::bcdata_get_data(record = 'b5f436b4-532c-4ee2-ba27-90d55ec8c73f', resource = 'e482fd4a-be58-4541-
```

### See Also

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#), [wsc\\_drainages\(\)](#)

### Examples

```
## Not run:  
my_layer <- water_precincts()  
  
## End(Not run)
```

---

`wsc_drainages`*Water Survey of Canada Sub-Sub-Drainage Areas*

---

**Description**

Water Survey of Canada Sub-Sub-Drainage Areas

**Usage**

```
wsc_drainages(ask = interactive(), force = FALSE)
```

**Arguments**

<code>ask</code>	Should the function ask the user before downloading the data to a cache? Defaults to the value of <code>interactive()</code> .
<code>force</code>	Should you force download the data?

**Value**

The spatial layer of `wsc_drainages` as an `sf` object.

**Source**

```
bcdata::bcdata_get_data(record = '7ae18a3c-917b-4cb1-9aa8-51a172475dbb', resource = '4455072e-d33b-4685-
```

**See Also**

Other BC layers: [airzones\(\)](#), [bc\\_bound\(\)](#), [bc\\_bound\\_hres\(\)](#), [bc\\_cities\(\)](#), [bec\(\)](#), [census\\_dissemination\\_area\(\)](#), [census\\_division\(\)](#), [census\\_economic\(\)](#), [census\\_metropolitan\\_area\(\)](#), [census\\_subdivision\(\)](#), [census\\_tract\(\)](#), [ecoprovinces\(\)](#), [ecoregions\(\)](#), [ecosections\(\)](#), [fsa\(\)](#), [gw\\_aquifers\(\)](#), [health\\_chsa\(\)](#), [health\\_ha\(\)](#), [health\\_hsda\(\)](#), [health\\_lha\(\)](#), [hydrozones\(\)](#), [mapsheets\\_250K\(\)](#), [mapsheets\\_50K\(\)](#), [municipalities\(\)](#), [nr\\_areas\(\)](#), [nr\\_districts\(\)](#), [nr\\_regions\(\)](#), [regional\\_districts\(\)](#), [tsa\(\)](#), [water\\_districts\(\)](#), [water\\_precincts\(\)](#), [watercourses\\_15M\(\)](#), [watercourses\\_5M\(\)](#)

**Examples**

```
## Not run:  
my_layer <- wsc_drainages()  
  
## End(Not run)
```

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