Package: eolas (via r-universe)

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Title Client for the eolas.fyi Statistical Data API

Version 1.3.18

Description Provides convenient access to the eolas.fyi REST API (<https://api.eolas.fyi>), which serves 1,500+ official statistical and geospatial datasets from Stats NZ, OECD, RBNZ, LINZ, NZTA, and more. Source-specific functions (eolas_get_statsnz(), eolas_get_oecd(), etc.) return tidy data frames ready for analysis with ggplot2, dplyr, or your favourite tooling.

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URL https://github.com/phildonovan/eolas-r, https://eolas.fyi

BugReports https://github.com/phildonovan/eolas-r/issues

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Contents

`eolas_cache_clear` *Clear cached state for a dataset (or the whole library)*

Description

eolas caches at two levels: **session metadata** (`eolas_info()` per dataset, used for routing and attached column glosses) and **on-disk bulk files** (Parquet/GeoParquet in the library directory, with `.eolas-meta.json` sidecars). This function clears one or both without contacting the API.

Usage

```
eolas_cache_clear(
  name = NULL,
  cache_dir = NULL,
  format = NULL,
  files = TRUE,
  meta = TRUE,
  base_url = EOLAS_BASE_URL
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_parcels"`. `NULL` clears library- wide file caches (when `files = TRUE`) and/or all session metadata (when `meta = TRUE`).
`cache_dir`	Library directory. `NULL` (default) uses the same precedence chain as `eolas_get_local()` (`EOLAS_LIBRARY`, config, fallback).
`format`	`"parquet"`, `"csv_gz"`, or `"geoparquet"`. `NULL` (default) deletes any on-disk bulk variants for `name` (ignored when `name = NULL`).
`files`	When `TRUE` (default), delete on-disk bulk data files and sidecars.
`meta`	When `TRUE` (default), drop session-cached `eolas_info()` for `name` (or all datasets when `name = NULL`).
`base_url`	Override the API base URL for metadata cache keys.

Details

Use `eolas_get()` or `eolas_get_local()` with `force = TRUE` to clear caches and immediately re-fetch in one step.

When `name` is set and `format = NULL`, removes on-disk files for **all** bulk extensions (`.parquet`, `.csv.gz`, `.geo.parquet`) that exist for that dataset. When `name = NULL` and `files = TRUE`, sweeps the entire library directory for bulk data files and sidecars.

Value

Invisibly a list with `files` (character vector of deleted paths) and `meta_cleared` (integer count of session cache entries removed).

See Also

eolas_get(), eolas_sync_bulk(), eolas_get_local(), eolas_library_status()

Examples

```
## Not run:
# Free disk space without re-downloading
eolas_cache_clear("nz_parcels")

# Metadata only (e.g. after a warehouse schema change)
eolas_cache_clear("nz_cpi", files = FALSE)

# Nuclear option -- wipe library files + all session metadata
eolas_cache_clear(name = NULL)

## End(Not run)
```

---

eolas_column_label *Column description for a dataset returned by eolas*

Description

Looks up the human-readable gloss for a column name from the metadata attached at fetch time (built server-side from the Iceberg schema).

Usage

```
eolas_column_label(x, column)
```

Arguments

x	An eolas_dataset or sf object from eolas.
column	Column name, e.g. "value".

Value

Character description, or NULL if unknown / not attached.

Examples

```
## Not run:
df <- eolas_get("nz_cpi", limit = 10)
eolas_column_label(df, "value")

## End(Not run)
```

`eolas_download_bulk` *Download a complete dataset as a single file*

Description

Wraps `GET /v1/bulk/{namespace}/{table}` to download a whole Iceberg table as a Parquet, gzipped-CSV, or GeoParquet snapshot – no row caps, no pagination.

Usage

```
eolas_download_bulk(
  name,
  freshness = "auto",
  format = "parquet",
  path = NULL,
  progress = NULL,
  base_url = EOLAS_BASE_URL,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`freshness`	`"auto"` (default), `"monthly"`, or `"current"`. `"auto"` lets the server choose based on your plan.
`format`	`"parquet"` (default), `"csv_gz"`, or `"geoparquet"`.
`path`	Where to write the file. `NULL` (default) returns the raw bytes as a raw vector. A file path writes the file and returns its normalised path invisibly.
`progress`	Control progress feedback. `NULL` (default) auto-detects both phases in interactive sessions. `TRUE`/`FALSE` force both on/off. Character selectors: `"download"` (network byte bar only), `"read"` (disk-load spinner only), `"both"`/`"none"`. Suppressed when `EOLAS_NO_PROGRESS=1`. Bytes mode (`path = NULL`) never shows a download bar.
`base_url`	Override the API base URL (useful for testing).
`...`	Reserved for future arguments; currently ignored.

Details

The endpoint requires both `namespace` and `table`. These are resolved automatically by calling `GET /v1/datasets/{name}` first and reading the metadata. The extra round-trip is negligible; monthly snapshots are served from Cloudflare's edge cache in milliseconds.

Value

Invisibly the normalised path when `path` is set; a raw vector when `path = NULL`.

Freshness

`freshness = "auto"` (the default) omits the query parameter so the server redirects to the right level for your plan – Free accounts get the latest monthly snapshot; Pro accounts get the current Iceberg snapshot. Pass `"monthly"` or `"current"` to override explicitly.

Formats

`"parquet"` Apache Parquet – best for R (via the `arrow` package), Polars, DuckDB, Spark.

`"csv_gz"` Gzipped CSV – readable by `read.csv()`, `readr::read_csv()`, Excel.

`"geoparquet"` GeoParquet 1.0 – only available on datasets with geometry; read with `sfarrow::st_read_parquet()` or `geopandas`.

Error conditions

HTTP 402 Stops with `"Bulk upgrade required:"` – `freshness = "current"` requires a Pro plan.

HTTP 403 (licence) Stops with `"Bulk licence restricted:"` – dataset is excluded from bulk (e.g. OECD). Use `eolas_get()` instead.

HTTP 503 Stops with `"Bulk not yet available:"` – monthly snapshot not yet generated.

See Also

https://docs.eolas.fyi/bulk-downloads/

Examples

```
## Not run:
eolas_key("your_key")

# Return raw bytes (e.g. hand to arrow::read_parquet)
raw_bytes <- eolas_download_bulk("nz_cpi")
df <- arrow::read_parquet(raw_bytes)

# Write to a file, get the path back
path <- eolas_download_bulk("nz_cpi", path = "nz_cpi.parquet")
df <- arrow::read_parquet(path)

# Gzipped CSV (readable by read.csv)
eolas_download_bulk("nz_cpi", format = "csv_gz", path = "nz_cpi.csv.gz")
df <- read.csv(gzfile("nz_cpi.csv.gz"))

# Force monthly freshness (reproducibility)
eolas_download_bulk("nz_cpi", freshness = "monthly", path = "nz_cpi.parquet")

# GeoParquet for a geospatial dataset
eolas_download_bulk("territorial_authority_2023",
                    format = "geoparquet",
                    path   = "ta2023.geo.parquet")

# Silence the bar in a script run interactively
eolas_download_bulk("nz_cpi", path = "nz_cpi.parquet", progress = FALSE)
```

```
## End(Not run)
```

`eolas_get` *Fetch dataset rows*

Description

The generic workhorse – use `eolas_get_statsnz()`, `eolas_get_oecd()` etc. for source-tagged results and a nicer print output.

Usage

```
eolas_get(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  meta = TRUE,
  envelope = FALSE,
  progress = NULL,
  force = FALSE,
  base_url = EOLAS_BASE_URL,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). When set and a `date` column is present, returns the **most recent** N rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.
`as_arrow`	When `TRUE`, return an `arrow::Table` instead of a `data.frame` or `sf` object. Geometry stays as Arrow buffers (zero-copy, no sf allocation) – suitable for DuckDB / dplyr pipelines. Works on every dataset. Cannot be combined with `as_sf = TRUE` (stops with an error). Requires the `arrow` package: `install.packages("arrow")`.

meta	When TRUE (default), fetch dataset metadata from GET /v1/datasets/{name} once per session (cached) and attach it as eolas_meta / eolas_columns attributes. Pass FALSE to skip the extra round-trip. See eolas_meta() and eolas_column_label().
envelope	When TRUE, request ?envelope=1 (JSON only) and attach the data_sources licence block. Response X-Eolas-* headers are merged into metadata.
progress	Control bulk download/read progress when the request is auto-routed to eolas_get_local(). NULL (default) shows both phases in interactive sessions; set EOLAS_NO_PROGRESS=1 to suppress. Ignored on the live API path. See eolas_get_local() for "download" / "read" selectors.
force	When TRUE and the request is auto-routed to eolas_get_local(), drop session eolas_info() cache and re-download the on-disk bulk file even when the sidecar says it is current. Ignored on the live API path (no row cache there). See eolas_cache_clear().
base_url	Override the API base URL (useful for testing).
...	Forwarded to eolas_get_local() on auto-route (cache_dir, format, freshness, etc.).

Details

Hits the live /v1/datasets/{name}/data endpoint for slices and smaller datasets. Whole-dataset pulls on large or geospatial tables are **auto-routed** to eolas_get_local() (CDN-backed Parquet/GeoParquet) – so eolas_get("nz_addresses") and eolas_get_linz("nz_addresses") work without hitting the API 413 guard.

Value

A eolas_dataset tibble with date coerced to Date, or an sf object when geometry is present and conversion is enabled. Table and column metadata are attached as attributes (not printed by default).

Examples

```
## Not run:
eolas_key("your_key")
df <- eolas_get("nz_cpi", start = "2020-01-01")
library(ggplot2)
ggplot(df, aes(date, value)) + geom_line()

## End(Not run)
```

---

eolas_get_acc *Fetch an ACC dataset*

Description

Fetch an ACC dataset

Usage

```
eolas_get_acc(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

---

eolas_get_akl_council *Fetch an Auckland Council dataset (overlays, heritage, hazards, zoning)*

Description

A named wrapper over eolas_get() for datasets sourced from the Auckland Council open data hub. Covers district plan overlays, notable trees, significant ecological areas, heritage, and stormwater management zones.

Usage

```
eolas_get_akl_council(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
```

```
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

Details

Source: https://data-aucklandcouncil.opendata.arcgis.com. Licence: CC-BY 4.0 (Auckland Council).

Value

A eolas_dataset data frame, or an sf object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_akl_council("akc_notable_trees_overlay")
gdf <- eolas_get_akl_council("akc_significant_ecological_areas_overlay")

## End(Not run)
```

`eolas_get_akl_transport` *Fetch an Auckland Transport dataset (roads, public transport, cycling)*

Description

A named wrapper over `eolas_get()` for datasets sourced from Auckland Transport (AT). Covers bus stops, bus routes, bridges, and cycle infrastructure.

Usage

```
eolas_get_akl_transport(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.
`as_arrow`	When `TRUE`, return an `arrow::Table` instead of a data frame or `sf` object (zero-copy, no geometry materialisation). Cannot be combined with `as_sf = TRUE`.
`...`	Forwarded to `eolas_get()` (`progress`, `force`, `cache_dir`, etc.).

Details

Source: https://data-atgis.opendata.arcgis.com. Licence: CC-BY 4.0 (Auckland Transport).

Value

A `eolas_dataset` data frame, or an `sf` object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_akl_transport("akt_bus_stop")
gdf <- eolas_get_akl_transport("akt_cycle_facility_network")

## End(Not run)
```

`eolas_get_bay_of_plenty` *Fetch a Bay of Plenty Councils dataset (hazards, resource consents, planning)*

Description

A named wrapper over `eolas_get()` for datasets from Bay of Plenty Regional Council and its territorial authorities. Covers flood extents, liquefaction, coastal hazards, and planning layers.

Usage

```
eolas_get_bay_of_plenty(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.
`as_arrow`	When `TRUE`, return an `arrow::Table` instead of a data frame or `sf` object (zero-copy, no geometry materialisation). Cannot be combined with `as_sf = TRUE`.
`...`	Forwarded to `eolas_get()` (`progress`, `force`, `cache_dir`, etc.).

Details

Source: https://www.boprc.govt.nz. Licence: CC-BY 4.0.

Value

A `eolas_dataset` data frame, or an `sf` object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_bay_of_plenty("boprc_historic_flood_extents")
gdf <- eolas_get_bay_of_plenty("boprc_liquefaction_level_b")

## End(Not run)
```

`eolas_get_charities` *Fetch a Charities Services dataset (registered NZ charities)*

Description

A named wrapper over `eolas_get()` for datasets from Charities Services (a business unit of the Department of Internal Affairs). Covers registered charities, officers, beneficiary groups, and annual financial returns.

Usage

```
eolas_get_charities(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.

as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

Details

Source: https://www.charities.govt.nz. Licence: Open Government Licence v3.0.

Value

A eolas_dataset data frame.

Examples

```
## Not run:
eolas_key("your_key")
df <- eolas_get_charities("charities_organisations")
df <- eolas_get_charities("charities_annual_returns")

## End(Not run)
```

---

eolas_get_colab_waikato

Fetch a Co-Lab Waikato dataset (planning, hazards, heritage across Waikato councils)

Description

A named wrapper over eolas_get() for datasets aggregated via the Co-Lab Waikato open data hub. Covers district plan zones, coastal hazards, heritage, and building footprints across Waikato-region territorial authorities.

Usage

```
eolas_get_colab_waikato(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

Details

Source: https://data-waikatolass.opendata.arcgis.com. Licence: CC-BY 4.0 (respective councils).

Value

A eolas_dataset data frame, or an sf object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_colab_waikato("wmkdc_buildings")
gdf <- eolas_get_colab_waikato("tcdc_dp_coastal_environment")

## End(Not run)
```

---

eolas_get_doc *Fetch a DOC (Department of Conservation) dataset*

Description

A named wrapper over eolas_get() for datasets sourced from the Department of Conservation (DOC). Covers public conservation land polygons, hut and campsite locations, walking experiences, tracks, marine reserves, and marine mammal sanctuaries.

Usage

```
eolas_get_doc(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

Details

Refreshed weekly from DOC's ArcGIS hub. Operational alert streams (track closures, hazard notices) are wired but currently blocked on an API key issue; they will appear automatically once resolved. Source: https://doc.govt.nz. Licence: CC-BY 4.0 International (Crown / Department of Conservation).

Value

A eolas_dataset data frame, or an sf object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
huts  <- eolas_get_doc("doc_huts")                        # 1,429 DOC huts (Point)
land <- eolas_get_doc("doc_public_conservation_land")   # ~11k conservation land polygons
trks  <- eolas_get_doc("doc_tracks")                      # 3,248 DOC tracks (Polyline)

## End(Not run)
```

`eolas_get_ecan_canterbury` *Fetch an ECan / Canterbury dataset (environment, hazards, resource consents)*

Description

A named wrapper over `eolas_get()` for datasets from Environment Canterbury (ECan) and Canterbury-region councils. Covers liquefaction, earthquake faults, tsunami zones, water allocation, and resource consents.

Usage

```
eolas_get_ecan_canterbury(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.
`as_arrow`	When `TRUE`, return an `arrow::Table` instead of a data frame or `sf` object (zero-copy, no geometry materialisation). Cannot be combined with `as_sf = TRUE`.
`...`	Forwarded to `eolas_get()` (`progress`, `force`, `cache_dir`, etc.).

Details

Source: https://opendata.canterburymaps.govt.nz. Licence: CC-BY 4.0 (Environment Canterbury / respective councils).

Value

A `eolas_dataset` data frame, or an `sf` object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_ecan_canterbury("ecan_liquefaction_susceptibility_final")
gdf <- eolas_get_ecan_canterbury("ecan_tsunami_evacuation_zones")

## End(Not run)
```

---

eolas_get_edcounts *Fetch an Education Counts dataset*

Description

Fetch an Education Counts dataset

Usage

```
eolas_get_edcounts(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.
`as_arrow`	When `TRUE`, return an `arrow::Table` instead of a data frame or `sf` object (zero-copy, no geometry materialisation). Cannot be combined with `as_sf = TRUE`.
`...`	Forwarded to `eolas_get()` (`progress`, `force`, `cache_dir`, etc.).

`eolas_get_eeca` *Fetch an EECA dataset (NZ energy use, EV chargers, regional heat demand)*

Description

A named wrapper over `eolas_get()` for datasets from the Energy Efficiency and Conservation Authority (EECA). Covers NZ energy end-use by sector and fuel type, public and co-funded EV charger locations, quarterly EV penetration metrics by region and territorial authority, and regional industrial process heat demand.

Usage

```
eolas_get_eeca(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.
`as_arrow`	When `TRUE`, return an `arrow::Table` instead of a data frame or `sf` object (zero-copy, no geometry materialisation). Cannot be combined with `as_sf = TRUE`.
`...`	Forwarded to `eolas_get()` (`progress`, `force`, `cache_dir`, etc.).

Details

EV charger streams (`eeca_ev_chargers_public`, `eeca_ev_chargers_cofunded`) carry point geometry and refresh quarterly. `eeca_energy_end_use` is the annual Energy End Use Database (EEUD). `eeca_regional_heat_demand` is an Aug 2024 snapshot. Source: https://www.eeca.govt.nz/insights/data-tools/. Licence: CC-BY 4.0 NZ (Crown).

Value

A `eolas_dataset` data frame, or an `sf` object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
df  <- eolas_get_eeca("eeca_energy_end_use")      # NZ energy by sector x fuel x end-use x year
gdf <- eolas_get_eeca("eeca_ev_chargers_public")   # public EV charging network (Point geometry)
df  <- eolas_get_eeca("eeca_ev_metrics_district")   # EV penetration by territorial authority
df  <- eolas_get_eeca("eeca_regional_heat_demand")  # industrial process heat by region x sector

## End(Not run)
```

---

eolas_get_geonet *Fetch a GeoNet dataset (NZ earthquakes, volcanic alert levels, strong-motion sensors)*

Description

A named wrapper over `eolas_get()` for datasets sourced from GeoNet, operated by Earth Sciences New Zealand (formerly GNS Science). Covers recent NZ earthquake activity (MMI>=3), volcanic alert levels for 12 monitored volcanoes, and strong-motion sensor station locations.

Usage

```
eolas_get_geonet(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.

as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

Details

The earthquake catalogue (geonet_quakes_recent) is a rolling window of recent events, not a historical archive. Refreshed every 6 hours. Source: https://www.geonet.org.nz. Licence: CC-BY 3.0 NZ (Earth Sciences New Zealand, formerly GNS Science).

Value

A eolas_dataset data frame, or an sf object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
df  <- eolas_get_geonet("geonet_quakes_recent")       # rolling ~100 recent MMI>=3 quakes
df  <- eolas_get_geonet("geonet_volcanic_alert_levels") # 12 monitored NZ volcanoes
gdf <- eolas_get_geonet("geonet_strong_motion_sensors") # 25 strong-motion stations

## End(Not run)
```

---

eolas_get_hawkes_bay *Fetch a Hawke's Bay Councils dataset (hazards, planning, coastal management)*

Description

A named wrapper over eolas_get() for datasets from Hawke's Bay Regional Council and its territorial authorities. Covers coastal erosion, liquefaction, flood hazards, and district planning layers.

Usage

```
eolas_get_hawkes_bay(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
```

```
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

Details

Source: https://www.hbrc.govt.nz. Licence: CC-BY 4.0.

Value

A eolas_dataset data frame, or an sf object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_hawkes_bay("hbrc_coastal_erosion_likely_66")
gdf <- eolas_get_hawkes_bay("hbrc_chb_hdc_wdc_liquefaction_severity")

## End(Not run)
```

---

eolas_get_immigration *Fetch an Immigration NZ dataset*

Description

Fetch an Immigration NZ dataset

Usage

```
eolas_get_immigration(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

---

eolas_get_linz *Fetch a LINZ series*

Description

Fetch a LINZ series

Usage

```
eolas_get_linz(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

---

eolas_get_local *Download (or serve from cache) a whole dataset as a local data frame*

Description

This is the recommended path for large or geospatial datasets in an interactive R session or R Markdown notebook. On the first call it fetches the bulk file from CDN (milliseconds for monthly snapshots) and writes it to ~/.cache/eolas/. On subsequent calls a lightweight HEAD request checks whether the local file is still current; if so the cached copy is read directly – zero network I/O on the data payload.

Usage

```
eolas_get_local(
  name,
  cache_dir = NULL,
  format = NULL,
  freshness = "auto",
  as_sf = NULL,
  as_arrow = FALSE,
  meta = TRUE,
  progress = NULL,
  force = FALSE,
  base_url = EOLAS_BASE_URL,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_parcels".
cache_dir	Local directory for cached files. Accepts ~-prefixed paths. Created if it does not exist. NULL (default) resolves via the library precedence chain: EOLAS_LIBRARY env var, then library_dir in ~/.eolas/config.json, then ~/.cache/eolas/ fallback. An explicit value here always wins (highest priority). Use eolas_library_set() to configure a persistent location.
format	"parquet", "csv_gz", or "geoparquet". NULL (default) auto-detects from dataset metadata.
freshness	"auto" (default), "monthly", or "current". Passed verbatim to eolas_sync_bulk().
as_sf	When TRUE and the file is GeoParquet, the function attempts to return an sf object via sf::st_read() or sfarrow::st_read_parquet(). When FALSE, a plain data frame is returned regardless of geometry. NULL (default) is treated as TRUE unless as_arrow = TRUE, in which case it is treated as FALSE. Cannot be combined with as_arrow = TRUE (stops with an error).
as_arrow	When TRUE, skip all native geometry materialisation and return an arrow::Table directly. Geometry stays as Arrow buffers (zero-copy) – suitable for DuckDB / dplyr pipelines that work on a sample before converting to sf. Works for geo and non-geo datasets. Cannot be combined with as_sf = TRUE (stops with an error). Requires the arrow package: install.packages("arrow").
meta	When TRUE (default), attach dataset metadata from eolas_info() as object attributes. Pass FALSE to skip the extra round-trip.
progress	Control progress feedback for the two bulk phases: **download** (streaming byte bar while fetching from CDN) and **read** (indeterminate spinner while Parquet/GeoParquet is materialised into a data frame or sf object). NULL (default) enables both in interactive sessions. TRUE/FALSE force both on/off. Use "download" or "read" to show only one phase. Suppressed by EOLAS_NO_PROGRESS=1. Cached snapshots skip the download bar and print an informative message instead.
force	When TRUE, drop session eolas_info() cache and re-download the bulk file even when the sidecar says the snapshot is current. See eolas_sync_bulk() and eolas_cache_clear().
base_url	Override the API base URL (useful for testing).
...	Reserved for future arguments; currently ignored.

Details

If you have been calling eolas_get("nz_parcels") on a 3-million-row geospatial dataset and it takes 15+ minutes, use eolas_get_local() instead – it serves a pre-materialised GeoParquet from CDN, not a live Iceberg scan through the row-oriented data endpoint.

Value

A data.frame, sf object, or arrow::Table, depending on the dataset and the as_sf / as_arrow arguments.

Format auto-detection

When `format = NULL` (the default), `eolas_get_local()` calls `eolas_info(name)` and checks the metadata for a `geometry_type` field. Geo datasets use `"geoparquet"`; everything else uses `"parquet"`.

GeoParquet and sf

When `format = "geoparquet"` and the `sf` package is installed, the returned object is an `sf` data frame with the CRS read from the GeoParquet metadata (typically OGC:CRS84 / WGS84). If `sf` is not installed, or `as_sf = FALSE`, a plain data frame is returned with the WKT geometry preserved as a character column (extracted from the WKB binary by the `sfarrow` package if available, else left as raw). Install `sf` with `install.packages("sf")`.

See Also

`eolas_sync_bulk()`, `eolas_library_set()`, https://docs.eolas.fyi/bulk-downloads/

Examples

```
## Not run:
eolas_key("your_key")

# 3-million-row geospatial dataset -- first call downloads GeoParquet from CDN;
# subsequent calls return in <1 s via sidecar check.
gdf <- eolas_get_local("nz_parcels")

# Non-geo tabular dataset
df <- eolas_get_local("nz_cpi")

# Explicit cache directory (overrides library config -- highest priority)
df <- eolas_get_local("nz_cpi", cache_dir = "/data/eolas-cache")

# Force CSV format
df <- eolas_get_local("nz_cpi", format = "csv_gz")

# Keep plain data.frame even for geo datasets
df <- eolas_get_local("nz_parcels", as_sf = FALSE)

# Arrow table -- zero-copy, no sf allocation; suitable for DuckDB / dplyr
tbl <- eolas_get_local("nz_parcels", as_arrow = TRUE)

## End(Not run)
```

---

eolas_get_lris *Fetch a Manaaki Whenua / LRIS dataset (land cover, soil, protected areas)*

Description

A named wrapper over `eolas_get()` for datasets sourced from the Land Resource Information System (LRIS), managed by Manaaki Whenua - Landcare Research NZ. Covers LCDB land-cover vintages (v3.0 through v6), NZLUM land use management, PBC, and the PAN-NZ protected areas layer.

Usage

```
eolas_get_lris(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.
`as_arrow`	When `TRUE`, return an `arrow::Table` instead of a data frame or `sf` object (zero-copy, no geometry materialisation). Cannot be combined with `as_sf = TRUE`.
`...`	Forwarded to `eolas_get()` (`progress`, `force`, `cache_dir`, etc.).

Details

LCDB v3.0-v4.1 are deprecated vintages retained for longitudinal analysis. LCDB v5 is superseded by v6 but still served. `pan_nz_2025_draft` was marked Draft at the time of ingestion (2026-05-12). Source: https://lris.scinfo.org.nz. Licence: CC-BY 4.0 International (LCDB v5/v6, NZLUM, PBC, PAN-NZ); CC-BY 3.0 NZ (LCDB v3/v4 vintages). Attribution: Manaaki Whenua.

Value

A `eolas_dataset` data frame, or an `sf` object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_lris("lcdb_v6_mainland")   # current NZ land cover
gdf <- eolas_get_lris("nzlum_v03")          # NZ Land Use Management v0.3
gdf <- eolas_get_lris("pan_nz_2025_draft")  # protected areas (Draft, 2025)

## End(Not run)
```

`eolas_get_manawatu_whanganui` *Fetch a Manawatu-Whanganui Councils dataset (airsheds, coastal, freshwater)*

Description

A named wrapper over `eolas_get()` for datasets from Horizons Regional Council (Manawatu-Whanganui) and its territorial authorities. Covers airsheds, coastal marine areas, freshwater, and planning layers.

Usage

```
eolas_get_manawatu_whanganui(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.

as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

Details

Source: https://www.horizons.govt.nz. Licence: CC-BY 4.0.

Value

A eolas_dataset data frame, or an sf object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_manawatu_whanganui("horizons_coastal_marine_area")
gdf <- eolas_get_manawatu_whanganui("horizons_airshed_taihape")

## End(Not run)
```

---

eolas_get_mbie *Fetch an MBIE dataset*

Description

Fetch an MBIE dataset

Usage

```
eolas_get_mbie(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.

as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

---

eolas_get_msd *Fetch an MSD dataset*

Description

Fetch an MSD dataset

Usage

```
eolas_get_msd(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

`eolas_get_napier_whanganui` *Fetch a Napier or Whanganui city dataset (district plan, heritage, infrastructure)*

Description

A named wrapper over `eolas_get()` for datasets from Napier City Council and Whanganui District Council. Covers district plan precincts, heritage buildings and areas, address points, road centrelines, and parcels.

Usage

```
eolas_get_napier_whanganui(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.
`as_arrow`	When `TRUE`, return an `arrow::Table` instead of a data frame or `sf` object (zero-copy, no geometry materialisation). Cannot be combined with `as_sf = TRUE`.
`...`	Forwarded to `eolas_get()` (`progress`, `force`, `cache_dir`, etc.).

Details

Source: https://www.napier.govt.nz / https://www.whanganui.govt.nz. Licence: CC-BY 4.0.

Value

A `eolas_dataset` data frame, or an `sf` object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_napier_whanganui("napier_heritage_buildings")
gdf <- eolas_get_napier_whanganui("napier_address_points")

## End(Not run)
```

`eolas_get_northland` *Fetch a Northland Councils dataset (district plans, designations, heritage)*

Description

A named wrapper over `eolas_get()` for datasets from Northland Regional Council and its territorial authorities (Far North, Whangarei, Kaipara). Covers district plan zones, designations, heritage, and environmental layers.

Usage

```
eolas_get_northland(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.

as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

Details

Source: https://www.nrc.govt.nz. Licence: CC-BY 4.0.

Value

A eolas_dataset data frame, or an sf object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_northland("fndc_district_plan_zones")
gdf <- eolas_get_northland("fndc_heritage_areas")

## End(Not run)
```

---

eolas_get_nzta *Fetch a Waka Kotahi (NZTA) dataset*

Description

Fetch a Waka Kotahi (NZTA) dataset

Usage

```
eolas_get_nzta(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.

as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

---

eolas_get_oecd *Fetch an OECD series*

Description

Fetch an OECD series

Usage

```
eolas_get_oecd(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

eolas_get_otago *Fetch an Otago Councils dataset (land use, water, planning, hazards)*

Description

A named wrapper over `eolas_get()` for datasets from Otago Regional Council and its territorial authorities (Dunedin, Queenstown-Lakes, Central Otago, Clutha, Waitaki). Covers land use, floodbanks, groundwater protection, and planning layers.

Usage

```
eolas_get_otago(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.
`as_arrow`	When `TRUE`, return an `arrow::Table` instead of a data frame or `sf` object (zero-copy, no geometry materialisation). Cannot be combined with `as_sf = TRUE`.
`...`	Forwarded to `eolas_get()` (`progress`, `force`, `cache_dir`, etc.).

Details

Source: https://www.orc.govt.nz. Licence: CC-BY 4.0.

Value

A `eolas_dataset` data frame, or an `sf` object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_otago("orc_otago_irrigated_areas")
gdf <- eolas_get_otago("orc_otago_land_use_2024")

## End(Not run)
```

`eolas_get_pharmac` *Fetch a PHARMAC dataset (NZ pharmaceutical subsidy schedule + hospital medicines)*

Description

A named wrapper over `eolas_get()` for datasets from PHARMAC (Pharmaceutical Management Agency). Covers the monthly Pharmaceutical Schedule (community- funded medicines and subsidies) and the Hospital Medicines List (HML), including full longitudinal archives from 2006 and 2011 respectively.

Usage

```
eolas_get_pharmac(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.
`as_arrow`	When `TRUE`, return an `arrow::Table` instead of a data frame or `sf` object (zero-copy, no geometry materialisation). Cannot be combined with `as_sf = TRUE`.
`...`	Forwarded to `eolas_get()` (`progress`, `force`, `cache_dir`, etc.).

Details

Historical archive datasets (pharmac_schedule_history, pharmac_hml_history) are append-mode; each month's snapshot is tagged with a time_frame column (YYYY-MM format). Source: https://schedule.pharmac.govt.nz/. Licence: CC-BY 3.0 NZ (Crown).

Value

A eolas_dataset data frame.

Examples

```
## Not run:
eolas_key("your_key")
df <- eolas_get_pharmac("pharmac_schedule")          # current month's funded medicines
df <- eolas_get_pharmac("pharmac_schedule_history")  # 2006-present subsidy archive
df <- eolas_get_pharmac("pharmac_hospital_medicines_list")  # current HML
df <- eolas_get_pharmac("pharmac_hml_history")       # 2011-present HML archive

## End(Not run)
```

---

eolas_get_police *Fetch an NZ Police / MoJ dataset*

Description

Fetch an NZ Police / MoJ dataset

Usage

```
eolas_get_police(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.

as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

---

eolas_get_rbnz *Fetch an RBNZ series*

Description

Fetch an RBNZ series

Usage

```
eolas_get_rbnz(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

`eolas_get_southland` *Fetch a Southland Councils dataset (district plans, coastal, natural hazards)*

Description

A named wrapper over `eolas_get()` for datasets from Environment Southland and its territorial authorities (Southland District, Gore, Invercargill). Covers district plan zones, coastal hazards, heritage, and land use.

Usage

```
eolas_get_southland(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.
`as_arrow`	When `TRUE`, return an `arrow::Table` instead of a data frame or `sf` object (zero-copy, no geometry materialisation). Cannot be combined with `as_sf = TRUE`.
`...`	Forwarded to `eolas_get()` (`progress`, `force`, `cache_dir`, etc.).

Details

Source: https://www.es.govt.nz. Licence: CC-BY 4.0.

Value

A `eolas_dataset` data frame, or an `sf` object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_southland("sdc_southland_dp_zones")
gdf <- eolas_get_southland("sdc_southland_dp_heritage_items")

## End(Not run)
```

`eolas_get_statsnz` *Fetch a Stats NZ series*

Description

A named wrapper over `eolas_get()` that tags the result with the "Stats NZ" source label.

Usage

```
eolas_get_statsnz(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
`as_sf`	Convert geospatial datasets to an `sf` object (CRS = WGS84). `NULL` (default) auto-converts when the dataset has a `geometry_wkt` column AND the `sf` package is installed. `TRUE` forces conversion (errors if `sf` is missing). `FALSE` keeps the raw WKT string column. Install with `install.packages("sf")`. Cannot be combined with `as_arrow = TRUE`.
`as_arrow`	When `TRUE`, return an `arrow::Table` instead of a data frame or `sf` object (zero-copy, no geometry materialisation). Cannot be combined with `as_sf = TRUE`.
`...`	Forwarded to `eolas_get()` (`progress`, `force`, `cache_dir`, etc.).

Value

A eolas_dataset data frame, an sf object when geometry is present and conversion is enabled, or an arrow::Table when as_arrow = TRUE.

Examples

```
## Not run:
eolas_key("your_key")
df <- eolas_get_statsnz("bds_enterprises_business_type", start = "2015-01-01")
library(ggplot2)
ggplot(df, aes(date, value)) + geom_line()

## End(Not run)
```

---

eolas_get_statsnz_geo *Fetch a Stats NZ geospatial dataset (boundaries, census meshblocks, etc.).*

Description

The server returns source = "Stats NZ" for both SDMX time series and Datafinder geospatial datasets – the eolas_dataset attribute reflects that. This helper exists as a discoverability shortcut, not a separate source.

Usage

```
eolas_get_statsnz_geo(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.

as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

---

eolas_get_taranaki *Fetch a Taranaki Councils dataset (coastal, biodiversity, district plans)*

Description

A named wrapper over eolas_get() for datasets from Taranaki Regional Council and its territorial authorities (New Plymouth, Stratford, South Taranaki). Covers biodiversity, coastal management, and district planning layers.

Usage

```
eolas_get_taranaki(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

Details

Source: https://www.trc.govt.nz. Licence: CC-BY 4.0.

Value

A `eolas_dataset` data frame, or an `sf` object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_taranaki("trc_biodiversity_coastal_mgmt_areas")
gdf <- eolas_get_taranaki("npdc_dp_operative_coastal_flooding")

## End(Not run)
```

`eolas_get_top_of_south` *Fetch a Gisborne / Top of South Councils dataset (coastal, planning, heritage)*

Description

A named wrapper over `eolas_get()` for datasets from Gisborne District Council, Marlborough District Council, Nelson City Council, and Tasman District Council. Covers coastal hazards, planning zones, and heritage layers.

Usage

```
eolas_get_top_of_south(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`start`	ISO date lower bound, e.g. `"2020-01-01"`. Optional.
`end`	ISO date upper bound, e.g. `"2024-12-31"`. Optional.
`limit`	Max rows to return. Default `NULL` requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.

as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

Details

Source: https://www.gdc.govt.nz. Licence: CC-BY 4.0.

Value

A eolas_dataset data frame, or an sf object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_top_of_south("gdc_coastal_environment")
gdf <- eolas_get_top_of_south("gdc_coastal_erosion")

## End(Not run)
```

---

eolas_get_treasury *Fetch a NZ Treasury series*

Description

Fetch a NZ Treasury series

Usage

```
eolas_get_treasury(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

---

eolas_get_wellington *Fetch a Wellington Region Councils dataset (hazards, planning, infrastructure)*

Description

A named wrapper over eolas_get() for datasets from Greater Wellington Regional Council and its territorial authorities (Wellington, Hutt, Upper Hutt, Porirua, Kapiti Coast). Covers flood and earthquake hazards, district plan zones, and coastal inundation.

Usage

```
eolas_get_wellington(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.

limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

Details

Source: https://www.gw.govt.nz. Licence: CC-BY 4.0.

Value

A eolas_dataset data frame, or an sf object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_wellington("wcc_district_plan_zones_2024")
gdf <- eolas_get_wellington("gwrc_flood_1pct_aep")

## End(Not run)
```

---

eolas_get_west_coast *Fetch a West Coast (Te Tai o Poutini) dataset (faults, landslides, planning)*

Description

A named wrapper over eolas_get() for datasets from West Coast Regional Council (Te Tai o Poutini) and its territorial authorities (Buller, Grey, Westland). Covers active faults, the Alpine Fault, landslide catalogs, and significant natural areas.

Usage

```
eolas_get_west_coast(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
```

```
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

Details

Source: https://www.ttpp.nz. Licence: CC-BY 4.0.

Value

A eolas_dataset data frame, or an sf object when geometry is present and conversion is enabled.

Examples

```
## Not run:
eolas_key("your_key")
gdf <- eolas_get_west_coast("wcrc_active_faults")
gdf <- eolas_get_west_coast("wcrc_alpine_fault_traces")

## End(Not run)
```

---

eolas_get_worksafe *Fetch a WorkSafe NZ dataset*

Description

Fetch a WorkSafe NZ dataset

Usage

```
eolas_get_worksafe(
  name,
  start = NULL,
  end = NULL,
  limit = NULL,
  as_sf = NULL,
  as_arrow = FALSE,
  ...
)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
start	ISO date lower bound, e.g. "2020-01-01". Optional.
end	ISO date upper bound, e.g. "2024-12-31". Optional.
limit	Max rows to return. Default NULL requests the full dataset (server enforces a 50,000-row cap on Free/Starter plans; Pro is unlimited). Pass an integer to request fewer rows.
as_sf	Convert geospatial datasets to an sf object (CRS = WGS84). NULL (default) auto-converts when the dataset has a geometry_wkt column AND the sf package is installed. TRUE forces conversion (errors if sf is missing). FALSE keeps the raw WKT string column. Install with install.packages("sf"). Cannot be combined with as_arrow = TRUE.
as_arrow	When TRUE, return an arrow::Table instead of a data frame or sf object (zero-copy, no geometry materialisation). Cannot be combined with as_sf = TRUE.
...	Forwarded to eolas_get() (progress, force, cache_dir, etc.).

---

eolas_info *Get metadata for a single dataset*

Description

Get metadata for a single dataset

Usage

```
eolas_info(name, base_url = EOLAS_BASE_URL)
```

Arguments

name	Dataset identifier, e.g. "nz_cpi".
base_url	Override the API base URL (useful for testing).

Value

A one-row tibble with dataset metadata.

Examples

```
## Not run:
eolas_key("your_key")
eolas_info("nz_cpi")

## End(Not run)
```

`eolas_integration` *Generate connector configs for third-party data-pipeline tools*

Description

Calls the eolas Enterprise-only `/v1/integrations/<platform>` endpoint and returns the generated config files. Optionally writes them to disk.

Usage

```
eolas_integration(
  platform,
  datasets,
  output_dir = NULL,
  force = FALSE,
  base_url = EOLAS_BASE_URL
)
```

Arguments

`platform`	One of `"meltano"`, `"fivetran"`, `"azure-data-factory"`.
`datasets`	Character vector of dataset names to include in the config.
`output_dir`	Optional directory path. When supplied, the generated files are written there (creating the directory if needed) and the path to each written file is included in the returned list. When `NULL` (the default), files are returned in-memory only.
`force`	When `output_dir` is set: overwrite existing files. Default `FALSE` skips files that already exist on disk.
`base_url`	Override the API base URL (useful for testing).

Details

Supported platforms:

- `"meltano"` – `meltano.yml` using `tap-rest-api-msdk`, plus README and `.env.example`. `meltano install && meltano run tap-eolas target-jsonl` and you're loading.

- "fivetran" – Connector Builder YAML for paste-into-dashboard import.
- "azure-data-factory" – linked-service + per-dataset REST datasets + copy pipeline JSON; usable via az datafactory CLI or ADF Studio.

This is an Enterprise-plan feature. Non-Enterprise keys receive a 403 from the server; the upgrade pointer flows through verbatim as the error message. See https://eolas.fyi/#pricing.

Value

A list with elements:

- platform – the platform name as echoed by the server.
- files – a named list of filename = content (always populated).
- written – character vector of paths actually written (only present when output_dir is set).
- skipped – character vector of paths skipped because they already existed and force = FALSE.

Examples

```
## Not run:
eolas_key("your_enterprise_key")

# In-memory: inspect what the server would generate
result <- eolas_integration("meltano", c("nz_cpi", "nz_gdp"))
names(result$files)
cat(result$files$meltano.yml)

# Write straight to a directory ready for `meltano install`
eolas_integration(
  "meltano",
  c("nz_cpi", "nz_gdp"),
  output_dir = "./my-pipeline"
)

## End(Not run)
```

---

eolas_key *Set your eolas API key*

Description

Stores the key for the duration of the R session. Alternatively, set the EOLAS_API_KEY environment variable or use eolas_key_save() to persist it to the OS keyring so you never need to call this again.

Usage

```
eolas_key(key)
```

Arguments

key	An API key from https://eolas.fyi/signup.

Value

The key, invisibly.

Examples

```
## Not run:
eolas_key("your_key_here")

## End(Not run)
```

---

eolas_key_clear *Remove your eolas API key from the OS keyring*

Description

Deletes the entry stored by eolas_key_save(). Does not affect the EOLAS_API_KEY environment variable or the in-session key set by eolas_key().

Usage

```
eolas_key_clear()
```

Value

Invisibly NULL.

See Also

eolas_key_save(), eolas_key_status()

Examples

```
## Not run:
eolas_key_clear()

## End(Not run)
```

`eolas_key_save` *Save your eolas API key to the OS keyring*

Description

Stores the key in the OS-native credential store (macOS Keychain, Windows Credential Manager, Linux Secret Service) under `service = "eolas"`, `username = "api-key"`. Once saved, `eolas_key()` and every `eolas_get_*()` call will find the key automatically – no environment variable or explicit call needed in future sessions.

Usage

```
eolas_key_save(key = NULL)
```

Arguments

`key`	The API key to save. `NULL` (default) prompts interactively via `askpass::askpass()` (if available) or `readline()`.

Details

The same keyring slot is read by the Python `eolas-data` client, so a key saved from R is immediately available in Python and vice versa.

Requires the `keyring` package. On Linux, `libsecret-1-dev` system headers are needed before `install.packages("keyring")`.

Value

Invisibly `NULL`.

See Also

`eolas_key_clear()`, `eolas_key_status()`

Examples

```
## Not run:
eolas_key_save()          # interactive prompt
eolas_key_save("vs_...")  # non-interactive

## End(Not run)
```

`eolas_key_status` *Show which source is supplying your eolas API key*

Description

Checks all sources in precedence order and reports the first one that has a key, masking all but the first eight characters for safety.

Usage

```
eolas_key_status()
```

Details

Precedence:

1. In-session key set by `eolas_key()`
2. `EOLAS_API_KEY` environment variable
3. OS keyring (via the `keyring` package)
4. `~/.eolas/config.json` (as written by the Python CLI `eolas auth set-key`)

Value

A character string describing the key source (invisibly). Primarily called for its side-effect of printing a status message.

See Also

`eolas_key_save()`, `eolas_key_clear()`

Examples

```
## Not run:
eolas_key_status()

## End(Not run)
```

eolas_library_clear *Remove the library directory from the eolas config file*

Description

Removes `library_dir` from `~/.eolas/config.json`. After clearing, `eolas_get_local()` falls back to `~/.cache/eolas/` (or the `EOLAS_LIBRARY` env var if set).

Usage

```
eolas_library_clear()
```

Value

Invisibly `NULL`.

Examples

```
## Not run:
eolas_library_clear()

## End(Not run)
```

eolas_library_set *Set the eolas library directory*

Description

Writes the chosen path to `~/.eolas/config.json` as `library_dir`. Future calls to `eolas_get_local()` will use this directory when no explicit `cache_dir` argument is passed.

Usage

```
eolas_library_set(path)
```

Arguments

`path`	Character string – the directory path to use as the library. Supports ~-prefixed paths.

Details

The config file is shared with the Python `eolas-data` client, so a path set from R is immediately honoured in Python and vice versa.

Value

The resolved (absolute) path, invisibly.

Examples

```
## Not run:
eolas_library_set("~/eolas-library")
eolas_library_set("/data/eolas")

## End(Not run)
```

`eolas_library_status` *Show the resolved eolas library directory*

Description

Checks all sources in precedence order and reports which one supplies the library directory:

Usage

```
eolas_library_status()
```

Details

1. `EOLAS_LIBRARY` environment variable
2. `library_dir` in `~/.eolas/config.json`
3. `~/.cache/eolas/` (transient fallback)

Value

A named list with elements `source`, `path`, `env_var`, `config_file`, and `config_value`, invisibly. Called primarily for its printed output.

Examples

```
## Not run:
eolas_library_status()

## End(Not run)
```

eolas_list *List available datasets*

Description

Returns a tibble (or data frame) with one row per dataset, including name, title, source, namespace, and description.

Usage

```
eolas_list(source = NULL, base_url = EOLAS_BASE_URL)
```

Arguments

source	Optional source filter, e.g. "Stats NZ" or "OECD". Use eolas_list_statsnz(), eolas_list_oecd() etc. as convenient shortcuts.
base_url	Override the API base URL (useful for testing).

Value

A tibble.

Examples

```
## Not run:
eolas_key("your_key")
eolas_list()
eolas_list("Stats NZ")

## End(Not run)
```

eolas_list_acc *List all ACC datasets*

Description

List all ACC datasets

Usage

```
eolas_list_acc()
```

`eolas_list_akl_council` *List all Auckland Council datasets available in eolas*

Description

List all Auckland Council datasets available in eolas

Usage

```
eolas_list_akl_council()
```

Value

A data frame (tibble if available) of dataset metadata.

`eolas_list_akl_transport` *List all Auckland Transport datasets available in eolas*

Description

List all Auckland Transport datasets available in eolas

Usage

```
eolas_list_akl_transport()
```

Value

A data frame (tibble if available) of dataset metadata.

`eolas_list_bay_of_plenty` *List all Bay of Plenty Councils datasets available in eolas*

Description

List all Bay of Plenty Councils datasets available in eolas

Usage

```
eolas_list_bay_of_plenty()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_charities *List all Charities Services datasets available in eolas*

Description

List all Charities Services datasets available in eolas

Usage

```
eolas_list_charities()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_colab_waikato *List all Co-Lab Waikato datasets available in eolas*

Description

List all Co-Lab Waikato datasets available in eolas

Usage

```
eolas_list_colab_waikato()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_doc *List all DOC datasets available in eolas*

Description

List all DOC datasets available in eolas

Usage

```
eolas_list_doc()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_ecan_canterbury *List all ECan / Canterbury datasets available in eolas*

Description

List all ECan / Canterbury datasets available in eolas

Usage

```
eolas_list_ecan_canterbury()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_edcounts *List all Education Counts datasets*

Description

List all Education Counts datasets

Usage

```
eolas_list_edcounts()
```

eolas_list_eeca *List all EECA datasets available in eolas*

Description

List all EECA datasets available in eolas

Usage

```
eolas_list_eeca()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_geonet *List all GeoNet datasets available in eolas*

Description

List all GeoNet datasets available in eolas

Usage

```
eolas_list_geonet()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_hawkes_bay *List all Hawke's Bay Councils datasets available in eolas*

Description

List all Hawke's Bay Councils datasets available in eolas

Usage

```
eolas_list_hawkes_bay()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_immigration *List all Immigration NZ datasets*

Description

List all Immigration NZ datasets

Usage

```
eolas_list_immigration()
```

eolas_list_linz *List all LINZ series*

Description

List all LINZ series

Usage

```
eolas_list_linz()
```

eolas_list_lris *List all Manaaki Whenua / LRIS datasets*

Description

List all Manaaki Whenua / LRIS datasets

Usage

```
eolas_list_lris()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_manawatu_whanganui *List all Manawatu-Whanganui Councils datasets available in eolas*

Description

List all Manawatu-Whanganui Councils datasets available in eolas

Usage

```
eolas_list_manawatu_whanganui()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_mbie *List all MBIE datasets*

Description

List all MBIE datasets

Usage

```
eolas_list_mbie()
```

eolas_list_msd *List all MSD datasets*

Description

List all MSD datasets

Usage

```
eolas_list_msd()
```

eolas_list_napier_whanganui *List all Napier + Whanganui datasets available in eolas*

Description

List all Napier + Whanganui datasets available in eolas

Usage

```
eolas_list_napier_whanganui()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_northland *List all Northland Councils datasets available in eolas*

Description

List all Northland Councils datasets available in eolas

Usage

```
eolas_list_northland()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_nzta *List all Waka Kotahi datasets*

Description

List all Waka Kotahi datasets

Usage

```
eolas_list_nzta()
```

eolas_list_oecd *List all OECD series*

Description

List all OECD series

Usage

```
eolas_list_oecd()
```

eolas_list_otago *List all Otago Councils datasets available in eolas*

Description

List all Otago Councils datasets available in eolas

Usage

```
eolas_list_otago()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_pharmac *List all PHARMAC datasets available in eolas*

Description

List all PHARMAC datasets available in eolas

Usage

```
eolas_list_pharmac()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_police *List all NZ Police / MoJ datasets*

Description

List all NZ Police / MoJ datasets

Usage

```
eolas_list_police()
```

eolas_list_rbnz *List all RBNZ series*

Description

List all RBNZ series

Usage

```
eolas_list_rbnz()
```

eolas_list_southland *List all Southland Councils datasets available in eolas*

Description

List all Southland Councils datasets available in eolas

Usage

```
eolas_list_southland()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_statsnz *List all Stats NZ series*

Description

List all Stats NZ series

Usage

```
eolas_list_statsnz()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_statsnz_geo

List Stats NZ geospatial datasets only (filtered by namespace).

Description

Filters on `namespace == "statsnz_geo"` rather than the source label, because the source label "Stats NZ" is now shared with the SDMX time-series datasets.

Usage

```
eolas_list_statsnz_geo()
```

eolas_list_taranaki

List all Taranaki Councils datasets available in eolas

Description

List all Taranaki Councils datasets available in eolas

Usage

```
eolas_list_taranaki()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_top_of_south

List all Gisborne / Top of South Councils datasets available in eolas

Description

List all Gisborne / Top of South Councils datasets available in eolas

Usage

```
eolas_list_top_of_south()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_treasury *List all NZ Treasury series*

Description

List all NZ Treasury series

Usage

```
eolas_list_treasury()
```

eolas_list_wellington *List all Wellington Region Councils datasets available in eolas*

Description

List all Wellington Region Councils datasets available in eolas

Usage

```
eolas_list_wellington()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_west_coast *List all West Coast (Te Tai o Poutini) datasets available in eolas*

Description

List all West Coast (Te Tai o Poutini) datasets available in eolas

Usage

```
eolas_list_west_coast()
```

Value

A data frame (tibble if available) of dataset metadata.

eolas_list_worksafe *List all WorkSafe NZ datasets*

Description

List all WorkSafe NZ datasets

Usage

```
eolas_list_worksafe()
```

eolas_merge_changes *Merge a batch of change rows into the current local materialised snapshot*

Description

Faithful port of the Python client's `merge_changes`. Drops local rows for every pk the feed touched (including deletes), appends the non-delete change rows, applies the `current_state_filter`, and strips the `_eolas_*` meta columns. The result is the current state for the touched pks merged with the untouched local rows.

Usage

```
eolas_merge_changes(
  local_df,
  changes_df,
  pk_columns,
  current_state_filter = NULL
)
```

Arguments

`local_df`	Current local materialised state (may be a 0-row frame with the right columns).
`changes_df`	Change rows from the `/changes` feed. Must contain `_eolas_seq` and `_eolas_op`.
`pk_columns`	Character vector of primary-key columns (non-empty). The merge keys on these only – never on geometry.
`current_state_filter`	Optional `"<col> = <value>"` filter applied after the merge.

Value

The merged current-state data frame, meta columns stripped, row names reset.

eolas_meta *Dataset metadata attached by eolas fetch functions*

Description

Returns the one-row metadata tibble attached by `eolas_get()`, `eolas_get_local()`, and source-specific getters – title, description, licence, refresh cadence, and provenance fields. The full `description` is available here but is **not** printed by default; call this accessor when you need the prose.

Usage

```
eolas_meta(x)
```

Arguments

`x`	An object returned by an `eolas_get*()` function (`eolas_dataset`, or `sf` when geospatial conversion is enabled).

Value

A one-row tibble, or `NULL` when metadata was not attached (e.g. `meta = FALSE` on the fetch call).

Examples

```
## Not run:
df <- eolas_get("nz_cpi", limit = 10)
eolas_meta(df)$description

## End(Not run)
```

eolas_search *Search datasets by name, title, or description*

Description

Substring search over the dataset catalog. Common analyst tokens are expanded – e.g. `"HLFS"` also matches labour-force and unemployment datasets; `"OCR"` matches official cash rate series.

Usage

```
eolas_search(query, source = NULL, base_url = EOLAS_BASE_URL)
```

Arguments

`query`	Search string (case-insensitive).
`source`	Optional source filter, e.g. `"RBNZ"`.
`base_url`	Override the API base URL (useful for testing).

Value

A tibble of matching datasets (same columns as `eolas_list()`).

Examples

```
## Not run:
eolas_key("your_key")
eolas_search("HLFS")
eolas_search("OCR", source = "RBNZ")

## End(Not run)
```

`eolas_sync` *Sync a dataset to a local file, auto-routing on its CDC serving tier*

Description

Reads `cdc_serving_tier` from the dataset metadata and dispatches:

- `"changelog"` -> `eolas_sync_changes()` – incremental /changes feed, pk-merged into the local file (first call downloads a baseline; later calls apply only what changed).
- anything else (`"snapshot"`) -> `eolas_sync_bulk()` – full-snapshot download, refreshed when the server snapshot changes.

Usage

```
eolas_sync(
  name,
  path,
  format = "parquet",
  progress = NULL,
  force = FALSE,
  base_url = EOLAS_BASE_URL
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_building_outlines"`.
`path`	Local file to materialise.
`format`	Output format. Changelog sync requires `"parquet"`; bulk also accepts `"csv_gz"` / `"geoparquet"`.
`progress`	Tri-state progress bar control forwarded to the underlying sync.
`force`	When `TRUE`, bypass local "unchanged" cache and re-sync from the server. On changelog-tier datasets this re-baselines from a full bulk snapshot.
`base_url`	API base URL.

Details

Both paths keep a `paste0(path, ".eolas-meta.json")` sidecar and return a list with at least `status`, `path`, and `current_snapshot_id`; the changelog path additionally returns `sync_mode`, `previous_seq`, `current_seq`, and `ops_applied`.

Value

The result list from the dispatched sync (see `eolas_sync_changes()` / `eolas_sync_bulk()`).

Examples

```
## Not run:
# Same call works whether the dataset is snapshot- or changelog-tier:
eolas_sync("nz_building_outlines", path = "buildings.parquet")

## End(Not run)
```

`eolas_sync_bulk` *Incrementally sync a bulk dataset file*

Description

Checks whether the locally-cached file is still current by issuing a lightweight HEAD request and reading the `X-Snapshot-Version` response header. If the snapshot id matches the sidecar, the function returns immediately with `status = "unchanged"` and no data I/O. Otherwise it downloads the new snapshot, replaces the local file **atomically** (via a temp file + `file.rename()`), and updates the sidecar.

Usage

```
eolas_sync_bulk(
  name,
  path,
  format = "parquet",
  freshness = "auto",
  progress = NULL,
  force = FALSE,
  base_url = EOLAS_BASE_URL,
  ...
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`path`	**Required.** File path where the data should live. The sidecar is written at `paste0(path, ".eolas-meta.json")`. Parent directories are created automatically.

format	"parquet" (default), "csv_gz", or "geoparquet".
freshness	"auto" (default), "monthly", or "current".
progress	Control the download progress bar ("download" phase). See eolas_get_local() for the full progress selector vocabulary. When status = "unchanged" no download bar is shown; an informative cached-file message is printed instead.
force	When TRUE, skip the sidecar "unchanged" fast path and re-download the bulk file even when the local snapshot id already matches the server (useful after corruption or to verify a fresh CDN copy).
base_url	Override the API base URL (useful for testing).
...	Reserved; currently ignored.

Value

A named list with the same fields as Python's SyncResult:

status "downloaded", "updated", or "unchanged"

previous_snapshot_id Snapshot id from the sidecar, or NA if none

current_snapshot_id Snapshot id from the server

path Normalised path to the data file

bytes_downloaded Bytes written (0 when unchanged)

Sidecar

A JSON file <path>.eolas-meta.json is written next to the data file. It stores the snapshot id, download timestamp, format, and source URL and is read on the next call to perform the no-op check cheaply.

Atomic replacement

The new file is downloaded to <path>.eolas-tmp-<rand> and then renamed over the original with file.rename(). On most POSIX systems this is an atomic inode swap; on Windows it uses MoveFileExW with MOVEFILE_REPLACE_EXISTING. Readers with the file open will see either the old or the new content, never a partial write.

See Also

eolas_download_bulk, https://docs.eolas.fyi/bulk-downloads/

Examples

```
## Not run:
eolas_key("your_key")

# First call: full download
r <- eolas_sync_bulk("nz_cpi", path = "nz_cpi.parquet")
r$status           # "downloaded"
r$bytes_downloaded # e.g. 2100000
```

```
# Second call (same snapshot): no network I/O on the data file
r <- eolas_sync_bulk("nz_cpi", path = "nz_cpi.parquet")
r$status           # "unchanged"
r$bytes_downloaded # 0

# Poll for updates in a long-running script
repeat {
  r <- eolas_sync_bulk("nz_cpi", path = "nz_cpi.parquet")
  if (r$status != "unchanged") message("Updated to snapshot ", r$current_snapshot_id)
  Sys.sleep(3600)
}

## End(Not run)
```

`eolas_sync_changes` *Incrementally sync a changelog-tier dataset via the /changes feed*

Description

The OUT half of CDC. On the first call (cold start) downloads the full baseline via `eolas_sync_bulk()` and anchors the watermark at the current feed head. On subsequent calls pages only the new changes since the watermark and pk-merges them into the local file (atomic rewrite), applying the dataset's `current_state_filter` (e.g. `is_current = true` for SCD2). A `410` (watermark expired) self-heals by re-baselining. Mirrors the Python client's `sync_changes`.

Usage

```
eolas_sync_changes(
  name,
  path,
  format = "parquet",
  progress = NULL,
  force = FALSE,
  base_url = EOLAS_BASE_URL
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_building_outlines"`.
`path`	Where to write the materialised Parquet file. The sidecar lives at `paste0(path, ".eolas-meta.json")`.
`format`	Only `"parquet"` is supported for changelog sync.
`progress`	Forwarded to `eolas_sync_bulk()` for the baseline download bar.
`force`	When `TRUE`, discard the incremental watermark and re-baseline from a full bulk snapshot.
`base_url`	API base URL.

Value

A list with `status`, `sync_mode = "changelog"`, `previous_seq`, `current_seq`, `ops_applied`, `path`, `current_snapshot_id`.

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