Package: eolas (via r-universe)

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Title Client for the eolas.nz Statistical Data API

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Description Provides convenient access to the eolas.nz REST API (<https://api.eolas.nz>), 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.nz

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

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`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` *Download a dataset via the live API*

Description

Streams `GET /v1/datasets/{name}/data` to a file. Works for **all** datasets, including OECD and other licence-restricted tables where bulk export is unavailable (e.g. `"nz_cpi"`). For whole-dataset pulls on very large or geospatial tables, prefer `eolas_download_bulk()` when bulk export is permitted.

Usage

```
eolas_download(
  name,
  path,
  format = "csv",
  start = NULL,
  end = NULL,
  limit = NULL,
  progress = NULL,
  base_url = EOLAS_BASE_URL
)
```

Arguments

`name`	Dataset identifier, e.g. `"nz_cpi"`.
`path`	Where to write the file (required).
`format`	`"csv"` (default), `"parquet"`, `"arrow"`, or `"json"`.
`start`	ISO date lower bound. Optional.
`end`	ISO date upper bound. Optional.
`limit`	Max rows. `NULL` (default) requests the full dataset (subject to plan caps). This is the **live** path and does not auto-route: on a large (more than 100,000 rows) or geometry table without a `start`/`end` date filter the API only accepts `1..10000`; `NULL`, `0` and anything larger are refused with HTTP 413 – use `eolas_download_bulk()` or `eolas_get()` for those.
`progress`	Download progress bar control (`"download"` phase only). `NULL` auto-detects in interactive sessions; suppressed by `EOLAS_NO_PROGRESS=1`.
`base_url`	Override the API base URL (useful for testing).

Value

Invisibly the normalised output path.

Examples

```
## Not run:
eolas_key("your_key")
eolas_download("nz_cpi", path = "nz_cpi.csv")
eolas_download("nz_cpi", path = "nz_cpi.parquet", format = "parquet")

## 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 picks the right level for your plan – Pro accounts get the current Iceberg snapshot. Pass `"monthly"` or `"current"` to override explicitly. Bulk download is a Pro/Enterprise feature; Free keys receive HTTP 402 (query the dataset with `eolas_get()` / `eolas_download()` instead).

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.nz/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,
  geometry = TRUE,
  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. If the server capped the window (`X-Eolas-Truncated: true`) the call warns and stamps `eolas_meta(df)$truncated = TRUE` / `row_cap`: the rows are the latest N *within* that file-order slice, not the dataset's most recent N. On large (>100,000-row) or geometry tables without `start`/`end` the live API only serves a slice of at most 10,000 rows; `NULL`, `0` and larger limits are refused with HTTP 413, so `eolas_get()` serves them from the bulk cache (`eolas_get_local()`) and applies the limit client-side.

`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()`.

`geometry` When `FALSE`, ask the API to omit the `geometry_wkt` column. The column is projected away at the storage layer, so it is never read or transferred – much faster and smaller on TA/RC boundary tables where you only want the attributes. Two-thirds of eolas datasets carry geometry, and on those the WKT usually dwarfs the rest of the row. Also lifts the whole-dataset restriction on spatial tables (geometry is one of the two triggers), so `eolas_get(name, geometry = FALSE)` can return a small boundary table in full. Errors if combined with `as_sf = TRUE`, which would have no geometry to convert.

`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. Pulls on large or geospatial tables that are not a bounded slice (`limit` of at most 10,000 rows, or a `start`/`end` date fil-

ter) 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()

# Attributes only -- skips the geometry_wkt column entirely
tas <- eolas_get("territorial_authority_2023", geometry = FALSE)

## 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,
  geometry = TRUE,
  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().
geometry	When FALSE, omit the geometry_wkt column. The column is skipped at *read* time via a Parquet column projection, so its chunks are never decoded and the whole sf/WKB conversion path is bypassed – geometry is typically ~95% of a spatial layer's bytes. The cached file itself is unchanged, so a later call with geometry = TRUE recovers the geometry from the same local file without re-downloading. Forces as_sf = FALSE, since there is nothing left to convert.
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.nz/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 centre-lines, 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.nz/#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.nz/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_pivot_longer *Reshape a wide eolas dataset to long format*

Description

Melts the dataset's `value_columns` (from the `layout` metadata attached by `eolas_get()` / `eolas_get_local()`) into a measure-name column and a value column. Requires `layout = "wide"` metadata – see Details for the full refusal list.

Usage

```
eolas_pivot_longer(
  x,
  names_to = NULL,
  values_to = "value",
  name = NULL,
  base_url = EOLAS_BASE_URL
)
```

Arguments

x	An eolas_dataset object from eolas_get() / eolas_get_local(), with layout = "wide" metadata attached.
names_to	Name of the output column holding the former column names. NULL (default) uses the dataset's measure_name_column metadata, falling back to "measure".
values_to	Name of the output value column. Default "value".
name	Dataset identifier, used only to fetch metadata when x has none attached (e.g. after meta = FALSE, or a plain data frame read from disk). Not required when x carries eolas_meta.
base_url	Override the API base URL (useful for testing).

Details

The layout classification (long/wide/feature/entity), the id/time columns, the value columns, and (for long tables that stack >1 measure) the measure-name column all come from server-side metadata (GET /v1/datasets/{name}), attached as the eolas_meta attribute by eolas_get() and eolas_get_local() – identically on the live and the bulk-cache path, since both call the same internal metadata plumbing. This function **never** infers a shape from column names like date/period/value; that inference class is exactly why eolas_plot() was removed in v1.3.0 (see NEWS.md). It also refuses when layout is "feature" or "entity", or when a geometry column is present.

If the wide table's columns carry a per-column series_id mapping (attached as the eolas_columns attribute – see eolas_column_label()), a series_id column is added to the long result mapping each measure back to its original series id (e.g. RBNZ's ~975 column -> series_id mappings).

Value

A long-format tibble.

Examples

```
## Not run:
wide <- eolas_get("rbnz_b1_exchange_rates_monthly")
long <- eolas_pivot_longer(wide)

## End(Not run)
```

---

eolas_pivot_wider *Reshape a long eolas dataset to wide format*

Description

Spreads one long-format value column into multiple columns keyed by a "names" column. Requires layout = "long" metadata – see Details for the full refusal list.

Usage

```
eolas_pivot_wider(
  x,
  names_from = NULL,
  values_from = NULL,
  id_cols = NULL,
  name = NULL,
  base_url = EOLAS_BASE_URL,
  ...
)
```

Arguments

x	An eolas_dataset object, with layout = "long" metadata attached.
names_from	Column to spread into new column names. NULL (default) derives it from the dataset's measure_name_column metadata – errors if that is unset and names_from was not supplied.
values_from	Column to fill the new wide columns with. NULL (default) derives it from value_columns metadata – errors if that list has more than one entry and values_from was not supplied.
id_cols	Columns to keep as row keys. NULL (default) uses the dataset's id_columns metadata intersected with the data's columns, falling back to every column not in names_from/values_from.
name	Dataset identifier, used only to fetch metadata when x has none attached.
base_url	Override the API base URL (useful for testing).
...	Forwarded to tidyr::pivot_wider() (e.g. values_fill).

Details

Unlike eolas_pivot_longer(), this never has a bare "always safe" default: a long table with more than one dimension column can legitimately be pivoted on several different keys, and picking the wrong one silently produces a cartesian-product blow-up (one row per id-combination x measure, mostly NA). names_from/values_from must therefore be either supplied explicitly, or unambiguously derivable – a single value_columns entry plus a measure_name_column in the attached metadata.

Also refuses when layout metadata is missing, when layout is "feature"/"entity", or when a geometry column is present – see eolas_pivot_longer().

Value

A wide-format tibble.

Examples

```
## Not run:
long <- eolas_get("some_long_series_table")
wide <- eolas_pivot_wider(long)
```

```
## 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)

`freshness_resolved` "current" or "monthly" – which artifact the server actually served (read from the final GET after redirects); NULL when unchanged or on an old server

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.nz/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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