A Tour of the CCI STAC Collection

September 2025

The CCI STAC Index

Browser: https://radiantearth.github.io/stac-browser/#/external/api.stac.164.30.69.113.nip.io/collections/cci

API: https://api.stac.164.30.69.113.nip.io/collections/cci

A Tour of the CCI STAC Collection

The CCI STAC Index

Search/Filter at Project Level

Project Level STAC Collections

A Tour of the CCI STAC Collection

Project-Level Collection: Aerosol

Browser: https://radiantearth.github.io/stac-browser/#/external/api.stac.164.30.69.113.nip.io/collections/aerosol
API: https://api.stac.164.30.69.113.nip.io/collections/aerosol

A Tour of the CCI STAC Collection

Project-Level Collection: Aerosol

A Tour of the CCI STAC Collection

Project-Level Collection: Aerosol

A Tour of the CCI STAC Collection

Dataset-Level Collections

ESA Aerosol Climate Change Initiative (Aerosol_cci): Level 3 aerosol products from AATSR (SU algorithm), Version 4.3

↑ Up   ⓘ Source   ⤴ Share

Description

The ESA Climate Change Initiative Aerosol project has produced a number of global aerosol Essential Climate Variable (ECV) products from a set of European satellite instruments with different characteristics. This dataset comprises Level 3 daily and monthly aerosol products from the AATSR instrument on the ENVISAT satellite, using the Swansea University (SU) algorithm, version 4.3. Data is available for the period 2002 - 2012.

For further details about these data products please see the documentation.

https://catalogue.ceda.ac.uk/uuid/d12fc40e4f254ce38303157fa460f01c

`Aerosol` `ESACCI` `d12fc40e4f254ce38303157fa460f01c` `aerosol`

License	other
Temporal Extent	2002-05-20 00:00:00 UTC – 2012-04-08 23:59:59 UTC

Catalogs ③

[⊞ Tiles] [☰ List]   [↕ Ascending] [↕ Descending]

🔍 Filter catalogs by title, description or keywor

Select keywords ▾

(NonDRS) Level 3 aerosol products from AATSR (SU algorithm), Version 4.3

https://archive.opensearch.ceda.ac.uk/opensearch/description.xml?parentIdentifier=d12fc40e4f254ce383031...

2002-05-20 00:00:00 UTC – 2012-04-08 00:00:00 UTC

esacci.AEROSOL.day.L3C.AER_PRODUCTS.AATSR.Envisat.SU.4-3.r1

https://archive.opensearch.ceda.ac.uk/opensearch/description.xml?parentIdentifier=d12fc40e4f254ce383031...

2002-05-20 10:15:05 UTC – 2002-06-15 22:24:05 UTC

esacci.AEROSOL.mon.L3C.AER_PRODUCTS.AATSR.Envisat.SU.4-3.r1

https://archive.opensearch.ceda.ac.uk/opensearch/description.xml?parentIdentifier=d12fc40e4f254ce383031...

2002-05-20 10:15:05 UTC – 2003-12-31 23:53:16 UTC

Items

🔍 Show Filters

No items available for this collection.

Asset

> thumbnail   THUMBNAIL JPEG

Additional Resources

Browser: https://radiantearth.github.io/stac-browser/#/external/api.stac.164.30.69.113.nip.io/collections/d12fc40e4f254ce38303157fa460f01c

API: https://api.stac.164.30.69.113.nip.io/collections/d12fc40e4f254ce38303157fa460f01c

A Tour of the CCI STAC Collection

Dataset-Level Collections

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Temporal Extent	2002-05-20 00:00:00 UTC – 2012-04-08 23:59:59 UTC

Asset

> thumbnail   `THUMBNAIL` `JPEG`

Additional Resources

Catalogs ❸   [▦ Tiles] [≣ List]   [⇅ Ascending] [⇅ Descending]

🔍 Filter catalogs by title, description or keywor | Select keywords ▾

(NonDRS) Level 3 aerosol products from AATSR (SU algorithm), Version 4.3
https://archive.opensearch.ceda.ac.uk/opensearch/description.xml?parentIdentifier=d12fc40e4f254ce383031...
2002-05-20 00:00:00 UTC – 2012-04-08 00:00:00 UTC

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https://archive.opensearch.ceda.ac.uk/opensearch/description.xml?parentIdentifier=d12fc40e4f254ce383031...
2002-05-20 10:15:05 UTC – 2002-06-15 22:24:05 UTC

esacci.AEROSOL.mon.L3C.AER_PRODUCTS.AATSR.Envisat.SU.4-3.r1
https://archive.opensearch.ceda.ac.uk/opensearch/description.xml?parentIdentifier=d12fc40e4f254ce383031...
2002-05-20 10:15:05 UTC – 2003-12-31 23:53:16 UTC

Items

🔍 Show Filters

No items available for this collection.

DRS-Level: Dataset Resource Syntax. (Further grouping of data within datasets)

Link to CEDA Catalogue Page

A Tour of the CCI STAC Collection

DRS-Level Collections (Item Searchable)

Browser: https://radiantearth.github.io/stac-browser/#/external/api.stac.164.30.69.113.nip.io/collections/esacci.aerosol.day.l3c.aer_products.aatsr.envisat.su.4-3.r1

API: https://api.stac.164.30.69.113.nip.io/collections/esacci.aerosol.day.l3c.aer_products.aatsr.envisat.su.4-3.r1

A Tour of the CCI STAC Collection

DRS-Level Collections (Item Searchable)

A Tour of the CCI STAC Collection

CCI Collection Levels

CCI

Project: Aerosol

Dataset

DRS
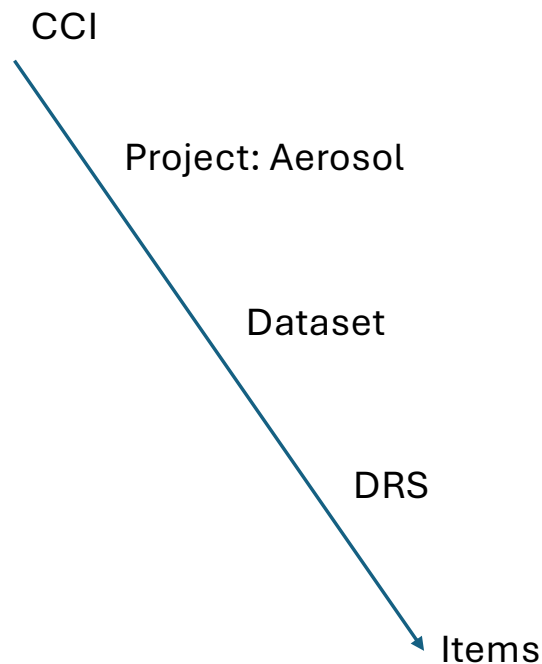
Items

- Navigate STAC browser to locate collections/items of interest.
- Locate DRS collections of interest.
- Search programmatically using pystac-client for each DRS.

> Note: Searching for items using pystac at collection-levels higher than the DRS-level will not display all items. Pystac does not search all nested collections for items.

- Dataset-level programmatic access: STAC Collection ID is the UUID of the dataset record in the CEDA Catalogue.
- DRS-level programmatic access: All DRS identifiers are lower-case to fit with STAC collection name requirements.

The CCI OpenEO Collection

September 2025

CCI OpenEO Datasets

Browser: https://radiantearth.github.io/stac-browser/#/external/api.stac.164.30.69.113.nip.io/collections/cci_openeo
API: https://api.stac.164.30.69.113.nip.io/collections/cci_openeo

The CCI OpenEO Collection

CCI OpenEO Datasets

Search/Filter by OpenEODataset keywords

Browser: https://radiantearth.github.io/stac-browser/#/external/api.stac.164.30.69.113.nip.io/collections/cci_openeo
API: https://api.stac.164.30.69.113.nip.io/collections/cci_openeo

The CCI OpenEO Collection

Example OpenEO Dataset

Browser: https://radiantearth.github.io/stac-browser/#/external/api.stac.164.30.69.113.nip.io/collections/esacci-l3s_fire-ba-avhrr-ltdr-fv1.1.openeo

API: https://api.stac.164.30.69.113.nip.io/collections/esacci-l3s_fire-ba-avhrr-ltdr-fv1.1.openeo

The CCI OpenEO Collection

Example OpenEO Dataset

OpenEO-Compliant GeoTiff Items

CCI STAC API ▾

≡ Browse 🔍 Search   ⚑ Language: English ▾

ESACCI-L3S_FIRE-BA-AVHRR-LTDR-fv1.1.openeo   ↱ Up   ⓘ Source   ⤳ Share

Description

The ESA Fire Disturbance Climate Change Initiative (CCI) project has produced maps of global burned area derived from satellite observations. The AVHRR - LTDR Pixel v1.1 product described here contains gridded data of global burned area derived from spectral information from the AVHRR (Advanced Very High Resolution Radiometer) Land Long Term Data Record (LTDR) v5 dataset produced by NASA.

The dataset provides monthly information on global burned area at 0.05-degree spatial resolution (the resolution of the AVHRR-LTDR input data) from 1982 to 2018. The year 1994 is omitted as there was not enough input data for this year. The dataset is distributed in monthly GeoTIFF files, packed in annual tar.gz files, and it includes 5 files: date of BA detection (labelled JD), confidence label (CL), burned area in each pixel (BA), number of observations in the month (OB) and a metadata file. For further information on the product and its format see the Product User Guide.

Climate Change   GCOS Essential Climate Variable   Burned Area   geotiff   Fire Disturbance   Pixel   openeo   esacci-l3s_fire-ba-avhrr-ltdr-fv1   CCI   1   ESA   b1bd715112ca43ab948226d11d72b85e

License   other
Temporal Extent   1982-01-01 00:00:00 UTC – 2018-12-01 23:59:59 UTC

Asset

> thumbnail   THUMBNAIL JPEG

Provider

Items

« First   ‹ Previous   Next ›   🔍 Show Filters

20180301-ESACCI-L3S_FIRE-BA-AVHRR-LTDR-fv1.1	**20180801-ESACCI-L3S_FIRE-BA-AVHRR-LTDR-fv1.1**
2018-03-01 00:00:00 UTC – 23:59:59 UTC	2018-08-01 00:00:00 UTC – 23:59:59 UTC
20180401-ESACCI-L3S_FIRE-BA-AVHRR-LTDR-fv1.1	**20180901-ESACCI-L3S_FIRE-BA-AVHRR-LTDR-fv1.1**
2018-04-01 00:00:00 UTC – 23:59:59 UTC	2018-09-01 00:00:00 UTC – 23:59:59 UTC
20180501-ESACCI-L3S_FIRE-BA-AVHRR-LTDR-fv1.1	**20181001-ESACCI-L3S_FIRE-BA-AVHRR-LTDR-fv1.1**
2018-05-01 00:00:00 UTC – 23:59:59 UTC	2018-10-01 00:00:00 UTC – 23:59:59 UTC
20180601-ESACCI-L3S_FIRE-BA-AVHRR-LTDR-fv1.1	**20181101-ESACCI-L3S_FIRE-BA-AVHRR-LTDR-fv1.1**
2018-06-01 00:00:00 UTC – 23:59:59 UTC	2018-11-01 00:00:00 UTC – 23:59:59 UTC
20180701-ESACCI-L3S_FIRE-BA-AVHRR-LTDR-fv1.1	**20181201-ESACCI-L3S_FIRE-BA-AVHRR-LTDR-fv1.1**
2018-07-01 00:00:00 UTC – 23:59:59 UTC	2018-12-01 00:00:00 UTC – 23:59:59 UTC

« First   ‹ Previous   Next ›

Collection-level temporal information

Browser: https://radiantearth.github.io/stac-browser/#/external/api.stac.164.30.69.113.nip.io/collections/esacci-l3s_fire-ba-avhrr-ltdr-fv1.1.openeo
API: https://api.stac.164.30.69.113.nip.io/collections/esacci-l3s_fire-ba-avhrr-ltdr-fv1.1.openeo

The CCI OpenEO Collection

Example OpenEO Dataset

Browser: https://radiantearth.github.io/stac-browser/#/external/api.stac.164.30.69.113.nip.io/collections/esacci-l3s_fire-ba-avhrr-ltdr-fv1.1.openeo
API: https://api.stac.164.30.69.113.nip.io/collections/esacci-l3s_fire-ba-avhrr-ltdr-fv1.1.openeo

The CCI OpenEO Collection

Example OpenEO Dataset: Additional Metadata

Data Provider/Host

OpenEO "EO Bands"

Browser: https://radiantearth.github.io/stac-browser/#/external/api.stac.164.30.69.113.nip.io/collections/esacci-l3s_fire-ba-avhrr-ltdr-fv1.1.openeo
API: https://api.stac.164.30.69.113.nip.io/collections/esacci-l3s_fire-ba-avhrr-ltdr-fv1.1.openeo

The CCI OpenEO Collection

Example OpenEO Item

The CCI OpenEO Collection

Example OpenEO Item

EO Bands for OpenEO (See dataset-level summary info) for use with OpenEO client.

OpenEO Compliant Projection Metadata

Item/file-level properties

The CCI OpenEO Collection