



Koninklijk Meteorologisch Instituut

Institut Royal Météorologique

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Royal Meteorological Institute

# EarthCARE data access

BRAVO meeting 2025-10-03

RMIB EarthCARE team

- Local storage for serving the projects: GERB, CM SAF, EarthCARE, E-CONTRAIL.
- Multi-mission data access – shared goal with cloud platforms in principle
- 500+ TB of local storage
  - Meteosat (SEVIRI, FCI)
  - GERB
  - CERES
  - GOES
  - Himawari
  - EarthCARE
  - ERA5

- Downloads using the script `oads_download.py` for products BBR\_NOM\_1B BBR\_SNG\_1B BMA\_FLX\_2B BM\_\_RAD\_2B BBR\_LIN\_1B
- MSI\_RGR\_1C
  - EUMETCast Terrestrial for continuous reception
  - Missing files: daily download

# MAAP examples

```

}
}
# Renaming the assets for
df.rename(columns={
    'properties.product.type': 'product_type',
    'properties.updated': 'last_modified',
    'assets.product.href': 'Zipped Product',
    '#assets.thumbnail.href': 'thumbnail_url',
    'assets.quicklook.href': 'quicklook_url',
    'assets.enclosure_1.href': 'h5_url',
    'assets.enclosure_2.href': 'HDR_url',
}, inplace=True)

df.sort_values(by='id', ascending=True, inplace=True)

[32]: df
[32]:

```

	id	product_type	last_modified	Zipped Product	quicklook_url	h5_url	HDR_url
0	ECA_EXBA_BBR_NOM_1B_20250527T143256Z_20250527T...	BBR_NOM_1B	2025-09-12T22:38:13Z	https://catalog.maap.eo.esa.int/data/zipper/ea...	https://catalog.maap.eo.esa.int/data/earthcare...	https://catalog.maap.eo.esa.int/data/earthcare...	https://catalog.maap.eo.esa.int/data/earthcare...
1	ECA_EXBA_BBR_NOM_1B_20250528T134108Z_20250528T...	BBR_NOM_1B	2025-09-12T22:40:58Z	https://catalog.maap.eo.esa.int/data/zipper/ea...	https://catalog.maap.eo.esa.int/data/earthcare...	https://catalog.maap.eo.esa.int/data/earthcare...	https://catalog.maap.eo.esa.int/data/earthcare...
2	ECA_EXBA_BBR_NOM_1B_20250529T081142Z_20250529T...	BBR_NOM_1B	2025-09-12T22:41:32Z	https://catalog.maap.eo.esa.int/data/zipper/ea...	https://catalog.maap.eo.esa.int/data/earthcare...	https://catalog.maap.eo.esa.int/data/earthcare...	https://catalog.maap.eo.esa.int/data/earthcare...
3	ECA_EXBA_BBR_NOM_1B_20250529T124921Z_20250529T...	BBR_NOM_1B	2025-09-12T22:41:40Z	https://catalog.maap.eo.esa.int/data/zipper/ea...	https://catalog.maap.eo.esa.int/data/earthcare...	https://catalog.maap.eo.esa.int/data/earthcare...	https://catalog.maap.eo.esa.int/data/earthcare...
4	ECA_EXBA_BBR_NOM_1B_20250530T163509Z_20250530T...	BBR_NOM_1B	2025-09-12T22:43:34Z	https://catalog.maap.eo.esa.int/data/zipper/ea...	https://catalog.maap.eo.esa.int/data/earthcare...	https://catalog.maap.eo.esa.int/data/earthcare...	https://catalog.maap.eo.esa.int/data/earthcare...

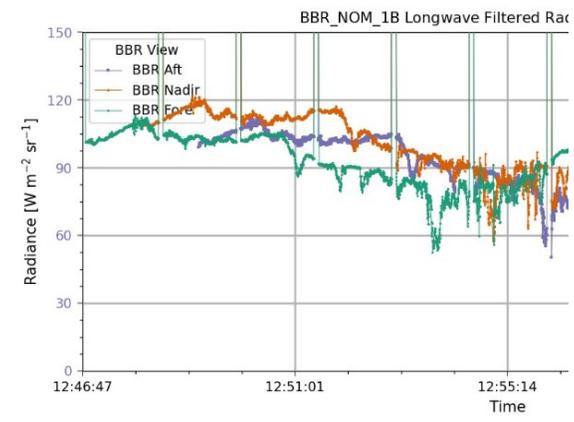
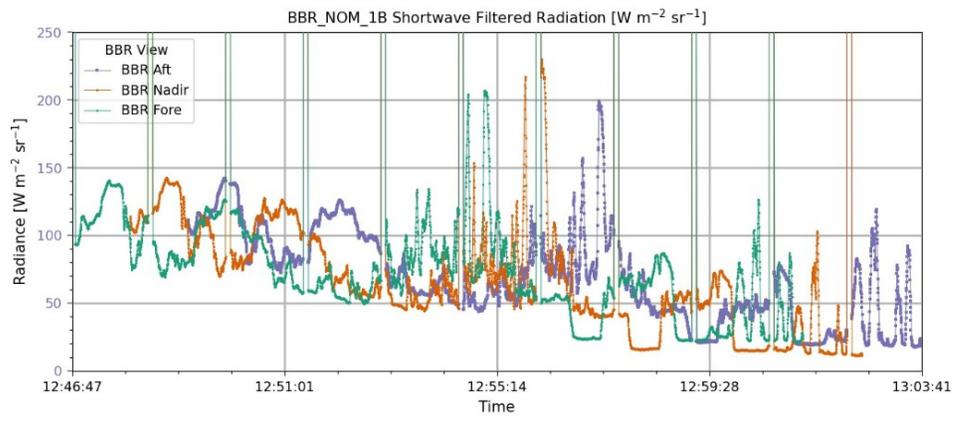
```

Quicklook of the data

[33]: # Choose the file you want to view/stream/download

fileno = 2 # Adjust this as desired
ql_url = df.loc[fileno, "quicklook_url"]
# Note: thumbnail is a lower resolution version
display(Image(url=ql_url))

```



- Local jupyter lab
- API search
  - thumbnail display
  - HDF5 file download
- 10h validity of token prevents automated downloads for our local processing
- Plan: develop a tool to check for the consistency of our archive