

1_preprocess_data

February 14, 2020

1 Convert effective radiative forcings from RCMIP model output (csv/xlsx) to xarray Dataset:

This notebook imports the data from the generated database and then selects the subset of variables needed and converts them into an [xarray](#) Dataframe before saving as a [netCDF](#) file.

This step is purely to make pick out a subset of the data and make further computations simpler.

1.1 Imports:

```
[1]: import xarray as xr
from IPython.display import clear_output
import numpy as np
import os
import re
from pathlib import Path
import pandas as pd
import tqdm
from scmdata import df_append, ScmDataFrame

%load_ext autoreload
%autoreload 2
```

<IPython.core.display.Javascript object>

```
[2]: from ar6_ch6_rcmipfigs.constants import BASE_DIR
from ar6_ch6_rcmipfigs.constants import OUTPUT_DATA_DIR, INPUT_DATA_DIR

SAVEPATH_DATASET = OUTPUT_DATA_DIR + '/forcing_data_rcmip_models.nc'
```

```
/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs
/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in
```

```
[3]: climatemodel = 'climatemodel'
scenario = 'scenario'
```

```
variable = 'variable'
time = 'time'
```

1.1.1 Define variables to look at:

```
[4]: # variables to load:
variables_erf = [
    'Effective Radiative Forcing|Anthropogenic|*',
    'Effective Radiative Forcing|Anthropogenic',
    'Effective Radiative Forcing',
    'Effective Radiative Forcing|Anthropogenic|Albedo Change|Other|Deposition',
    'of Black Carbon on Snow'
]
# variables to plot:
variables_erf_comp = [
    'Effective Radiative Forcing|Anthropogenic|CH4',
    'Effective Radiative Forcing|Anthropogenic|Aerosols',
    'Effective Radiative Forcing|Anthropogenic|Tropospheric Ozone',
    'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC',
    'Effective Radiative Forcing|Anthropogenic|Other|BC on Snow']
# total ERFs for anthropogenic and total:
variables_erf_tot = ['Effective Radiative Forcing|Anthropogenic',
    'Effective Radiative Forcing']
# Scenarios to plot:
scenarios_fl = ['ssp119', 'ssp126', 'ssp245', 'ssp370',
    'ssp370-lowNTCF-aerchemmip',
    'ssp370-lowNTCF-gidden',
    # 'ssp370-lowNTCF', Due to mistake here
    'ssp585', 'historical']
```

1.1.2 Models to look for

Models are chosen solely on availability of relevant data:

```
[5]: model_of_interest = [
    # ".*acc2.*v2-0-1.*",
    ".*rcmip-phase-1_cicero-scm.*",
    # ".*escimo.*v2-0-1.*",
    ".*fair-1.5-default.*",
    # ".*rcmip_phase-1_gir.*",
    # ".*greb.*v2-0-0.*",
    # ".*hector.*v2-0-0.*",
    # ".*MAGICC7.1.0aX-rcmip-phase-1.*",
    ".*rcmip-phase-1_magicc7.1.0.beta*",
    # ".*MAGICC7.1.0aX.*",
```

```

#     "*.mce.v2-0-1.*",
#     "*.oscar-v3-0*v1-0-1.*",
#     "*.oscarv3.0.*"
#     "*.wasp.v1-0-1.*",
]

```

Where to look for files:

```

[6]: # RESULTS_PATH = os.path.join(BASE_DIR, "data", "results", "phase-1/")
RESULTS_PATH = os.path.join(INPUT_DATA_DIR, "database-results", "phase-1")
RESULTS_PATH
# RESULTS_PATH

```

```

[6]: '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/datab
ase-results/phase-1'

```

```

[7]: SCENARIO_PROTOCOL = os.path.join(INPUT_DATA_DIR, "data", "protocol",
↪ "rcmip-emissions-annual-means-v3-1-0.csv")
SCENARIO_PROTOCOL

```

```

[7]: '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data/
protocol/rcmip-emissions-annual-means-v3-1-0.csv'

```

List of files:

```

[8]: results_files = list(Path(RESULTS_PATH).rglob("*.csv")) +
↪ list(Path(RESULTS_PATH).rglob("*.xlsx"))
results_files[:4]

```

```

[8]: [PosixPath('/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/da
ta_in/database-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_radiative-
forcing-anthropogenic-f-gases-hfc-hfc32.csv'),
PosixPath('/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/da
ta_in/database-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_radiative-
forcing-anthropogenic-montreal-gases-halon2402.csv'),
PosixPath('/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/da
ta_in/database-results/phase-1/rcmip-phase-1_cicero-scm_world_radiative-forcing-
anthropogenic-montreal-gases-ccl4.csv'),
PosixPath('/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/da
ta_in/database-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-hfc23.csv')]

```

1.2 Make file list to load:

```
[9]: results_files = [  
    str(p)  
    for p in results_files  
    if any([bool(re.match(m, str(p))) for m in model_of_interest]) and "$" not_  
    ↪in str(p)  
]  
print(len(results_files))  
print(results_files)
```

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```
['/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data  
base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_radiative-forcing-  
anthropogenic-f-gases-hfc-hfc32.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCM  
IPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-  
scm-ecs3_world_radiative-forcing-anthropogenic-montreal-gases-halon2402.csv', '/  
home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/databas  
e-results/phase-1/rcmip-phase-1_cicero-scm_world_radiative-forcing-  
anthropogenic-montreal-gases-ccl4.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_R  
CMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-  
phase-1_magicc7.1.0.beta-rcmip-phase-1_world_effective-radiative-forcing-  
anthropogenic-f-gases-hfc-hfc23.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCM  
IPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-  
phase-1_oscarv3.0_world_emissions-montreal-gases-hcfc141b-84th-quantile.csv', '/  
home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/databas  
e-results/phase-1/rcmip-phase-1_oscarv3.0_world_cumulative-emissions-co2-magicc-  
fossil-and-industrial.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6  
_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-  
phase-1_oscarv3.0_world_emissions-n2o.csv', '/home/sarambl/PHD/IPCC/public/AR6_C  
H6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-  
phase-1_magicc7.1.0.beta-rcmip-phase-1_world_radiative-forcing-anthropogenic-  
montreal-gases-cfc-cfc12.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/  
ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-  
scm_world_radiative-forcing-anthropogenic-montreal-gases-ch3ccl3.csv', '/home/sa  
rambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-  
results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-  
anthropogenic-f-gases-hfc-hfc125.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RC  
MIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-  
phase-1_oscarv3.0_world_effective-radiative-forcing-anthropogenic-montreal-  
gases-cfc-cfc115.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_  
rcmipfigs/data_in/database-results/phase-1/rcmip-  
phase-1_oscarv3.0_world_emissions-f-gases-hfc-hfc245fa-16th-quantile.csv', '/hom  
e/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-  
results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-  
anthropogenic-co2.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6  
_rcmipfigs/data_in/database-results/phase-1/rcmip-
```

phase-1_oscarv3.0_world_emissions-oc-other-16th-quantile.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm_world_emissions-montreal-gases-hcfc142b.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_radiative-forcing-anthropogenic-stratospheric-ozone.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_atmospheric-concentrations-f-gases-pfc-cc4f8.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-c2f6.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-anthropogenic-montreal-gases-cfc-cfc114.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm_world_emissions-f-gases-pfc-c2f6.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_atmospheric-concentrations-montreal-gases-cfc-cfc114.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm_world_radiative-forcing-anthropogenic-f-gases-pfc.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-phase-1_world_radiative-forcing-anthropogenic-aerosols-aerosols-cloud-interactions.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_radiative-forcing-anthropogenic-albedo-change-other-land-cover-change-16th-quantile.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_emissions-f-gases-hfc-hfc236fa-84th-quantile.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_radiative-forcing-natural-solar.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-forcing-anthropogenic-albedo-change.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-forcing-anthropogenic-co2.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_radiative-forcing-anthropogenic-montreal-gases-hcfc22.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-radiation-interactions-other.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm_world_radiative-forcing.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-radiation-interactions-84th-quantile.csv', '/home/sarambl/PHD/IPCC/publ

ic/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_net-land-to-atmosphere-flux-ch4-earth-system-feedbacks-16th-quantile.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-anthropogenic-co2-84th-quantile.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_atmospheric-concentrations-montreal-gases-cfc-cfc115.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_atmospheric-lifetime-ch4.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm_world_atmospheric-concentrations-co2.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_radiative-forcing-anthropogenic-f-gases-hfc-hfc134a.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_net-land-to-atmosphere-flux-ch4-earth-system-feedbacks-other-84th-quantile.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_atmospheric-concentrations-f-gases-hfc-hfc143a.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_cumulative-emissions-co2-magicc-fossil-and-industrial-16th-quantile.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-anthropogenic-albedo-change.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_emissions-bc-other-84th-quantile.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-phase-1_world_atmospheric-concentrations-montreal-gases-cfc-cfc115.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_radiative-forcing-anthropogenic-ch4.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-phase-1_world_effective-radiative-forcing-anthropogenic-ch4.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_radiative-forcing-anthropogenic-f-gases-hfc-hfc245fa.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-hfc227ea.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-

anthropogenic-f-gases-hfc-hfc143a.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_emissions-f-gases-pfc-cc4f8.csv', '/home/sarambl/PHD/IPC
 C/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-
 results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-phase-1_world_effective-
 radiative-forcing-anthropogenic-f-gases-so2f2.csv', '/home/sarambl/PHD/IPCC/publ
 ic/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-
 phase-1_oscarv3.0_world_radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions-sulfate.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-
 scm-ecs3_world_emissions-f-gases-hfc-hfc143a.csv', '/home/sarambl/PHD/IPCC/publi
 c/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-
 phase-1_magicc7.1.0.beta-rcmip-phase-1_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-halon1301.csv', '/home/sarambl/PHD/IPCC/public/AR6_
 CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-
 phase-1_oscarv3.0_world_atmospheric-concentrations-montreal-gases-
 halon2402.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfi
 gs/data_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_emissions-co-
 other-84th-quantile.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_c
 h6_rcmipfigs/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm-
 ecs3_world_emissions-f-gases-pfc-cf4.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH
 6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-
 phase-1_oscarv3.0_world_radiative-forcing-anthropogenic-f-gases-pfc-c6f14.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/datab
 ase-results/phase-1/rcmip-phase-1_fair-1.5-default_world_airborne-fraction-
 co2.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/dat
 a_in/database-results/phase-1/rcmip-phase-1_oscarv3.0_world_net-land-to-
 atmosphere-flux-ch4-earth-system-feedbacks-permafrost-84th-quantile.csv', '/home
 /sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-
 results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_heat-uptake.csv', '/home/sar
 ambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-
 results/phase-1/rcmip-phase-1_oscarv3.0_world_emissions-oc-other.csv', '/home/sa
 rambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-
 results/phase-1/rcmip-phase-1_cicero-scm_world_atmospheric-concentrations-
 montreal-gases-halon1301.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/
 ar6_ch6_rcmipfigs/data_in/database-results/phase-1/rcmip-
 phase-1_oscarv3.0_world_emissions-f-gases-hfc-hfc152a-84th-quantile.csv', '/home
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rcmip-phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-sf6.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/datab
ase-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_atmospheric-concentrations-f-gases-pfc-c4f10.csv', '/home/sarambl/
PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-
results/phase-1/rcmip-phase-1_oscarv3.0_world_emissions-f-gases-pfc-c7f16-84th-
quantile.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfig
s/data_in/database-results/phase-1/rcmip-phase-1_cicero-scm_world_radiative-
forcing-anthropogenic-aerosols-aerosols-radiation-interactions-biomass-burning-
bc-and-oc-bc.csv', '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmi
pfigs/data_in/database-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_radiative-forcing-anthropogenic-f-gases-hfc-hfc125.csv', '/home/sa
rambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/database-
results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_radiative-forcing-
anthropogenic-aerosols-aerosols-radiation-interactions-biomass-burning-bc-and-
oc-bc.csv']

```

```

[10]: from ar6_ch6_rcmipfigs.utils.misc_func import prep_str_for_filename

variables_of_interest = variables_erf + variables_erf_comp + variables_erf_tot
relevant_files = [
    str(p)
    for p in results_files
    if any(
        [
            bool(re.match(".*{.*".format(prep_str_for_filename(v)), str(p)))
            for v in variables_of_interest
        ]
    )
]
print("Number of relevant files: {}".format(len(relevant_files)))
relevant_files

```

Number of relevant files: 278

```

[10]: ['/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-hfc23.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-

```

anthropogenic-f-gases-hfc-hfc125.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc-cfc115.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-co2.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-f-gases-pfc-c2f6.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc-cfc114.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing-anthropogenic-albedo-change.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-co2.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-other.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-84th-quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-co2-84th-quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-albedo-change.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-ch4.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc227ea.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc143a.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-so2f2.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 halon1301.csv',

'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 halon2402.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-other-84th-quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-mineral-dust-16th-
 quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-
 hfc143a.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 ch3cl.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-hfc-hfc32.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc-cfc11.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-aerosols-aerosols-radiation-interactions-biomass-burning-
 bc-and-oc-bc.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-other-bc-on-snow.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-mineral-dust.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-tropospheric-ozone.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-16th-quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 ch2cl2.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-

phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-nf3.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-albedo-change-other-deposition-of-black-carbon-on-snow.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-nitrate.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions-mineral-dust.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-pfc-c6f14.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-
 forcing.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-hfc-hfc125.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-biomass-burning-bc-and-
 oc-bc.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-albedo-change.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-montreal-gases-halon1301.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-pfc-cf4.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing-anthropogenic.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data

base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-16th-quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-c8f18.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-c5f12.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-natural-solar.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-c4f10.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-pfc-cc4f8.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-aerosols-aerosols-radiation-interactions-bc-and-oc-
 bc.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 hcfc22.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-montreal-gases-ccl4.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 natural.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-nitrate-84th-
 quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc-cfc12.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing-anthropogenic-ch4.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc236fa.csv',

'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-ch3cl.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-pfc-c3f8.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc-cfc113.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-ch4.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-pfc-c7f16.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-other-secondary-organic-
 aerosols-16th-quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-halon1211.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-hcfc142b.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-cloud-interactions-84th-quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc-cfc113.csv',
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quantile.csv',
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 oc.csv',
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 phase-1_world_effective-radiative-forcing-natural-volcanic.csv',
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 quantile.csv',
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 forcing-anthropogenic-montreal-gases-cfc-cfc114.csv',
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 anthropogenic-montreal-gases-hcfc22.csv',
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 anthropogenic-aerosols-aerosols-radiation-interactions-sulfate.csv',
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 forcing-anthropogenic-f-gases-hfc-hfc227ea.csv',
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 anthropogenic-albedo-change-16th-quantile.csv',
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 forcing-natural.csv',
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 oc-oc.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-
 hfc4310mee.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-c2f6.csv',
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 forcing-anthropogenic-f-gases-hfc-hfc4310mee.csv',
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 forcing-anthropogenic-montreal-gases-cfc-cfc11.csv',
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 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-cfc-
 cfc113.csv',
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 cfc11.csv',
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 anthropogenic-f-gases-sf6.csv',
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 forcing-anthropogenic-aerosols.csv',
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 anthropogenic-montreal-gases-ch3br.csv',
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 forcing-anthropogenic-aerosols-aerosols-radiation-interactions-sulfate.csv',
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 forcing-anthropogenic-aerosols-aerosols-radiation-interactions-biomass-

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burning.csv',
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anthropogenic-montreal-gases-ch3ccl3.csv',
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phase-1_world_effective-radiative-forcing-anthropogenic-n2o.csv',
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anthropogenic-aerosols-aerosols-radiation-interactions-other-secondary-organic-
aerosols-84th-quantile.csv',
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base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
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 forcing-anthropogenic-stratospheric-ozone.csv',
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 anthropogenic-f-gases-pfc-c2f6.csv',
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 radiation-interactions-biomass-burning.csv',
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 quantile.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-c7f16.csv',
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 forcing-84th-quantile.csv',
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 anthropogenic-montreal-gases-ch3ccl3.csv',
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 anthropogenic-montreal-gases-cfc-cfc11.csv',
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 bc-and-oc.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-stratospheric-
 ozone.csv',
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 forcing-anthropogenic-f-gases-hfc.csv',
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 anthropogenic-montreal-gases-hcfc141b.csv',
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 forcing-natural-solar.csv',

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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-cc4f8.csv',
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 hcfc142b.csv',
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 forcing-anthropogenic-montreal-gases-ch3ccl3.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions-nh3-fossil-and-industrial.csv',
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 anthropogenic-84th-quantile.csv',
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 anthropogenic-stratospheric-ozone-84th-quantile.csv',
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 anthropogenic-f-gases-hfc-hfc134a.csv',
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 anthropogenic-aerosols-aerosols-radiation-interactions-bc-and-oc-oc-84th-
 quantile.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 hcfc141b.csv',
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 quantile.csv',
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 quantile.csv',
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 anthropogenic-tropospheric-ozone-16th-quantile.csv',
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 interactions.csv',
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 cfc12.csv',
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 oc.csv',
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 forcing-anthropogenic-montreal-gases-hcfc141b.csv',
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 anthropogenic-montreal-gases-halon2402.csv',
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 anthropogenic-aerosols-aerosols-radiation-interactions-sulfate-84th-
 quantile.csv',
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 forcing-anthropogenic-montreal-gases-halon1211.csv',
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 anthropogenic-f-gases-hfc-hfc227ea.csv',
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 anthropogenic-f-gases-pfc-c6f14.csv',
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 anthropogenic-f-gases-hfc-hfc152a.csv',
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 anthropogenic-stratospheric-ozone-16th-quantile.csv',
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 forcing-anthropogenic-aerosols-aerosols-radiation-interactions.csv',
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 forcing-anthropogenic-montreal-gases-cfc-cfc12.csv',

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 forcing-anthropogenic-tropospheric-ozone.csv',
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 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-tropospheric-ozone.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-bc-and-oc-oc-16th-
 quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-hfc125.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-other-16th-quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-stratospheric-ozone.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-aerosols-aerosols-radiation-interactions.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-bc-and-oc-bc-84th-
 quantile.csv',

'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-bc-and-oc-bc-16th-
 quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-f-gases-pfc-c6f14.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-co2-16th-quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-f-gases-sf6.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-albedo-change-other-deposition-of-black-carbon-on-snow-84th-
 quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-tropospheric-ozone.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc365mfc.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-
 hfc227ea.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-cfc-
 cfc114.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-halon1301.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-hfc-hfc134a.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc32.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-16th-quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-cloud-interactions-16th-quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data

base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing-anthropogenic-co2.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions-fossil-and-industrial-bc-and-oc-bc.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing-anthropogenic-tropospheric-ozone.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-albedo-change.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-pfc-c2f6.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-hfc32.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 chcl3.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-hfc-hfc245fa.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-tropospheric-ozone-84th-quantile.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-ccl4.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-other.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc-cfc114.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 ch3br.csv',

```

'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
anthropogenic-aerosols-84th-quantile.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
anthropogenic-f-gases-hfc-hfc125.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
natural-solar.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
anthropogenic-aerosols-aerosols-radiation-interactions-biomass-burning.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
anthropogenic-aerosols-aerosols-radiation-interactions-other-secondary-organic-
aerosols.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_effective-radiative-forcing-anthropogenic-other-ch4-oxidation-
stratospheric-h2o.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
forcing-anthropogenic-n2o.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
halon1202.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-cfc-
cfc115.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
anthropogenic-f-gases-hfc-hfc23.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
anthropogenic-montreal-gases-ccl4.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
anthropogenic.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
anthropogenic-aerosols-aerosols-cloud-interactions.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-sf6.csv']

```

1.2.1 Remove quantile files:

```
[11]: quantile='quantile'
relevant_files= [
    str(p)
    for p in relevant_files
    if quantile not in p]
print("Number of relevant files: {}".format(len(relevant_files)))
relevant_files
```

Number of relevant files: 240

```
[11]: ['/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-hfc23.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
anthropogenic-f-gases-hfc-hfc125.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
anthropogenic-montreal-gases-cfc-cfc115.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
anthropogenic-co2.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
anthropogenic-f-gases-pfc-c2f6.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
anthropogenic-montreal-gases-cfc-cfc114.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
forcing-anthropogenic-albedo-change.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
forcing-anthropogenic-co2.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
anthropogenic-aerosols-aerosols-radiation-interactions-other.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
anthropogenic-albedo-change.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_effective-radiative-forcing-anthropogenic-ch4.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
```

anthropogenic-f-gases-hfc-hfc227ea.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc143a.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-so2f2.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 halon1301.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 halon2402.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-
 hfc143a.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 ch3cl.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-hfc-hfc32.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc-cfc11.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-aerosols-aerosols-radiation-interactions-biomass-burning-
 bc-and-oc-bc.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-other-bc-on-snow.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-mineral-dust.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-tropospheric-ozone.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 ch2cl2.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data

base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-nf3.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-albedo-change-other-deposition-of-black-carbon-on-snow.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-nitrate.csv',
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 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions-mineral-dust.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-pfc-c6f14.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-
 forcing.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-hfc-hfc125.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-biomass-burning-bc-and-
 oc-bc.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-albedo-change.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-montreal-gases-halon1301.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-pfc-cf4.csv',
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 base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing-anthropogenic.csv',

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 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-c8f18.csv',
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 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-c5f12.csv',
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 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-natural-solar.csv',
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 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-c4f10.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-pfc-cc4f8.csv',
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 forcing-anthropogenic-aerosols-aerosols-radiation-interactions-bc-and-oc-
 bc.csv',
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 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 hcf22.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-montreal-gases-ccl4.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 natural.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc-cfc12.csv',
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 base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing-anthropogenic-ch4.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc236fa.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-ch3cl.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-pfc-c3f8.csv',

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 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc-cfc113.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-ch4.csv',
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 anthropogenic-f-gases-pfc-c7f16.csv',
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 anthropogenic-montreal-gases-halon1211.csv',
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 anthropogenic-montreal-gases-hcfc142b.csv',
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 anthropogenic-montreal-gases-cfc-cfc113.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-albedo-change.csv',
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 forcing-anthropogenic-montreal-gases-hcfc22.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions-fossil-and-industrial-nitrate.csv',
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 forcing-anthropogenic-aerosols-aerosols-radiation-interactions-bc-and-oc-
 oc.csv',
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 forcing-anthropogenic-aerosols-aerosols-cloud-interactions.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions-fossil-and-industrial-sulfate.csv',
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 anthropogenic-aerosols.csv',
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anthropogenic-montreal-gases-ch3br.csv',
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 anthropogenic-albedo-change-other-land-cover-change.csv',
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 phase-1_world_effective-radiative-forcing-natural-volcanic.csv',
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 anthropogenic-aerosols-aerosols-radiation-interactions-bc-and-oc-bc.csv',
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 forcing-anthropogenic-montreal-gases-cfc-cfc114.csv',
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 anthropogenic-montreal-gases-hcfc22.csv',
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 anthropogenic-aerosols-aerosols-radiation-interactions-sulfate.csv',
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 forcing-anthropogenic-f-gases-hfc-hfc227ea.csv',
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 phase-1_world_effective-radiative-forcing.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-
 hfc152a.csv',
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 anthropogenic-f-gases-hfc-hfc245fa.csv',
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 forcing-anthropogenic-montreal-gases-halon2402.csv',
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 forcing-natural.csv',
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 anthropogenic-aerosols-aerosols-radiation-interactions-biomass-burning-bc-and-
 oc-oc.csv',
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 anthropogenic-f-gases-hfc-hfc245fa.csv',
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phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-c3f8.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-
 hfc4310mee.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 ccl4.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc-cfc115.csv',
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 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-c2f6.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-hfc-hfc4310mee.csv',
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 forcing-anthropogenic-montreal-gases-cfc-cfc11.csv',
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 forcing-anthropogenic-other-other-wmghgs.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc.csv',
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 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-cfc-
 cfc113.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-cfc-
 cfc11.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-sf6.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 natural-volcanic.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-aerosols.csv',
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 forcing-anthropogenic-aerosols.csv',

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 anthropogenic.csv',
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 forcing-anthropogenic-f-gases-sf6.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-
 hfc134a.csv',
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 anthropogenic-montreal-gases-ch3br.csv',
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 forcing-anthropogenic-aerosols-aerosols-radiation-interactions-sulfate.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-
 hfc245fa.csv',
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 forcing-anthropogenic-aerosols-aerosols-radiation-interactions-biomass-
 burning.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-
 hfc236fa.csv',
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 forcing-anthropogenic-f-gases-hfc-hfc23.csv',
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 anthropogenic-f-gases-nf3.csv',
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 forcing-anthropogenic-other-bc-on-snow.csv',
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 anthropogenic-ch4.csv',
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 anthropogenic-montreal-gases-ch3ccl3.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-n2o.csv',
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 anthropogenic-montreal-gases.csv',
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 forcing-anthropogenic-montreal-gases-hcfc142b.csv',
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 forcing-anthropogenic-f-gases-pfc.csv',
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 forcing-anthropogenic-other-contrails-and-contrail-induced-cirrus.csv',
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 anthropogenic-aerosols-aerosols-radiation-interactions-sulfate.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-
 hfc365mfc.csv',
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 anthropogenic-f-gases-pfc-c4f10.csv',
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 forcing-anthropogenic-f-gases.csv',
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 forcing-anthropogenic-montreal-gases.csv',
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 anthropogenic-f-gases-pfc.csv',
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 forcing-anthropogenic-f-gases-hfc-hfc143a.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions-fossil-and-industrial-bc-and-oc-oc.csv',
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 base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing-anthropogenic-stratospheric-ozone.csv',
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 anthropogenic-f-gases-pfc-c2f6.csv',
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 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions-biomass-burning.csv',

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 anthropogenic-f-gases-hfc-hfc4310mee.csv',
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 anthropogenic-f-gases-hfc-hfc23.csv',
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 anthropogenic-ch4.csv',
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 anthropogenic-f-gases-pfc-cf4.csv',
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 anthropogenic-montreal-gases.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-co2.csv',
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 forcing-natural-volcanic.csv',
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 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-pfc-cf4.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-c7f16.csv',
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 anthropogenic-montreal-gases-ch3ccl3.csv',
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 anthropogenic-montreal-gases-cfc-cfc11.csv',
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 anthropogenic-aerosols-aerosols-radiation-interactions-bc-and-oc-bc.csv',
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 forcing-anthropogenic-aerosols-aerosols-radiation-interactions-biomass-burning-
 bc-and-oc.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-stratospheric-
 ozone.csv',
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 anthropogenic-f-gases-hfc-hfc32.csv',

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 forcing-anthropogenic-f-gases-hfc.csv',
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 anthropogenic-montreal-gases-hcfc141b.csv',
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 forcing-natural-solar.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-cc4f8.csv',
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 forcing-anthropogenic-montreal-gases-cfc-cfc115.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 hcfc142b.csv',
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 forcing-anthropogenic-aerosols-aerosols-cloud-interactions.csv',
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 anthropogenic-montreal-gases-hcfc22.csv',
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 anthropogenic-f-gases.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-co2.csv',
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 forcing-anthropogenic-montreal-gases-ch3ccl3.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions-nh3-fossil-and-industrial.csv',
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 anthropogenic-f-gases-hfc-hfc134a.csv',
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 forcing-anthropogenic-aerosols-aerosols-radiation-interactions-biomass-burning-

bc-and-oc-oc.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 hcfc141b.csv',
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 forcing-anthropogenic-montreal-gases-cfc-cfc113.csv',
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 anthropogenic-montreal-gases-hcfc142b.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-pfc-cf4.csv',
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 anthropogenic-f-gases-hfc-hfc143a.csv',
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 anthropogenic-aerosols-aerosols-cloud-interactions.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-cloud-
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 forcing-anthropogenic-montreal-gases-ch3br.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 halon1211.csv',
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 anthropogenic-montreal-gases-cfc-cfc12.csv',
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 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-cfc-
 cfc12.csv',
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 anthropogenic-montreal-gases-halon1211.csv',
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 anthropogenic-f-gases-hfc-hfc134a.csv',

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 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 ch3ccl3.csv',
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 anthropogenic-stratospheric-ozone.csv',
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 anthropogenic-f-gases-pfc-c5f12.csv',
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 anthropogenic-f-gases-pfc.csv',
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 oc.csv',
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 anthropogenic-aerosols.csv',
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 anthropogenic-montreal-gases-halon2402.csv',
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 forcing-anthropogenic-other-ch4-oxidation-stratospheric-h2o.csv',
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 forcing-anthropogenic-montreal-gases-hcfc141b.csv',
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 anthropogenic-montreal-gases-halon2402.csv',
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 anthropogenic-aerosols-aerosols-radiation-interactions-other-sea-salts.csv',
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 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-montreal-gases-halon1211.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-hcfc141b.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-bc-and-oc-oc.csv',

'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc227ea.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-pfc-c6f14.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc152a.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing-anthropogenic-aerosols-aerosols-radiation-interactions.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-montreal-gases-cfc-cfc12.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-
 forcing.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-tropospheric-ozone.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc4310mee.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-bc-and-oc-oc.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-stratospheric-ozone.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-halon1301.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-n2o.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-tropospheric-ozone.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-hfc125.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-

forcing-anthropogenic-stratospheric-ozone.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-aerosols-aerosols-radiation-interactions.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-f-gases-pfc-c6f14.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-f-gases-sf6.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-tropospheric-ozone.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc365mfc.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-
 hfc227ea.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-cfc-
 cfc114.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-halon1301.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-hfc-hfc134a.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc32.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing-anthropogenic-co2.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-aerosols-aerosols-
 radiation-interactions-fossil-and-industrial-bc-and-oc-bc.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
 forcing-anthropogenic-tropospheric-ozone.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-albedo-change.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data

base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-pfc-c2f6.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-hfc-hfc32.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 chcl3.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic-f-gases-hfc-hfc245fa.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-ccl4.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing-anthropogenic.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-other.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-montreal-gases-cfc-cfc114.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm-ecs3_world_effective-radiative-
 forcing.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
 ch3br.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-f-gases-hfc-hfc125.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 natural-solar.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-biomass-burning.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
 anthropogenic-aerosols-aerosols-radiation-interactions-other-secondary-organic-
 aerosols.csv',
 '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
 base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
 phase-1_world_effective-radiative-forcing-anthropogenic-other-ch4-oxidation-

```

stratospheric-h2o.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_fair-1.5-default_world_effective-radiative-
forcing-anthropogenic-n2o.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-
halon1202.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_effective-radiative-forcing-anthropogenic-montreal-gases-cfc-
cfc115.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
anthropogenic-f-gases-hfc-hfc23.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_oscarv3.0_world_effective-radiative-forcing-
anthropogenic-montreal-gases-ccl4.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
anthropogenic.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_cicero-scm_world_effective-radiative-forcing-
anthropogenic-aerosols-aerosols-cloud-interactions.csv',
'/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_in/data
base-results/phase-1/rcmip-phase-1_magicc7.1.0.beta-rcmip-
phase-1_world_effective-radiative-forcing-anthropogenic-f-gases-sf6.csv']

```

1.2.2 Read in all variables:

```

[12]: db = []
for rf in tqdm.tqdm_notebook(relevant_files):
    # print(rf.endswith('.sf'))
    if rf.endswith(".csv"):
        loaded = ScmDataFrame(rf)
    else:
        loaded = ScmDataFrame(rf, sheet_name="your_data")
    db.append(loaded.filter(variable=variables_erf, scenario=scenarios_fl)) # ↵
    ↪variables_of_interest))
print(db)
db = df_append(db).timeseries().reset_index()
db["unit"] = db["unit"].apply(
    lambda x: x.replace("Dimensionless", "dimensionless") if isinstance(x, str) ↵
    ↪else x
)
clear_output()

```

```
db = ScmDataFrame(db)
db.head()
```

```
[12]: time
1750-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01722
          ssp119      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01722
          ssp126      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01722
          ssp245      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01722
          ssp370      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01722

time
1751-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.016014
          ssp119      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.016014
          ssp126      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.016014
          ssp245      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.016014
          ssp370      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.016014

time
1752-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01424
          ssp119      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01424
          ssp126      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01424
          ssp245      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01424
          ssp370      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01424
```

```

time
1753-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01291
                      ssp119 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01291
                      ssp126 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01291
                      ssp245 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01291
                      ssp370 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01291

```

```

time
1754-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.011454
                      ssp119 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.011454
                      ssp126 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.011454
                      ssp245 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.011454
                      ssp370 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.011454

```

```

time
1755-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.009903
                      ssp119 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.009903
                      ssp126 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.009903
                      ssp245 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.009903
                      ssp370 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.009903

```

```

time

```



```

1756-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009132
      ssp119      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009132
      ssp126      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009132
      ssp245      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009132
      ssp370      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009132

```

```

time
1757-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.006713
      ssp119      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.006713
      ssp126      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.006713
      ssp245      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.006713
      ssp370      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.006713

```

```

time
1758-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005941
      ssp119      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005941
      ssp126      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005941
      ssp245      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005941
      ssp370      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005941

```

```

time
1759-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel

```

```

unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required -0.005388
ssp119 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required -0.005388
ssp126 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required -0.005388
ssp245 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required -0.005388
ssp370 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required -0.005388

```

```

time
... \
model scenario region variable unit climatemodel
unit_context ...
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required ...
ssp119 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required ...
ssp126 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required ...
ssp245 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required ...
ssp370 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required ...

```

```

time
2491-01-01 00:00:00 \
model scenario region variable unit climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required 2.51446
ssp119 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required 1.29407
ssp126 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required 2.01896
ssp245 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required 4.44678
ssp370 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required 10.57100

```

```

time
2492-01-01 00:00:00 \
model scenario region variable unit climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM

```

not_required	2.51446				
ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	1.29368				
ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	2.01824				
ssp245	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	4.44502				
ssp370	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	10.56870				

time
2493-01-01 00:00:00 \

model	scenario	region	variable	unit	climatemodel
unit_context					
unspecified historical	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	2.51446				
ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	1.29328				
ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	2.01752				
ssp245	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	4.44327				
ssp370	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	10.56630				

time
2494-01-01 00:00:00 \

model	scenario	region	variable	unit	climatemodel
unit_context					
unspecified historical	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	2.51446				
ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	1.29288				
ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	2.01680				
ssp245	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	4.44152				
ssp370	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	10.56400				

time
2495-01-01 00:00:00 \

model	scenario	region	variable	unit	climatemodel
unit_context					
unspecified historical	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	2.51446				
ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	

not_required		1.29249			
	ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required		2.01609			
	ssp245	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required		4.43977			
	ssp370	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required		10.56160			

time
2496-01-01 00:00:00 \

model	scenario	region	variable	unit	climatemodel
unit_context					
unspecified	historical	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				2.51446	
	ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				1.29211	
	ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				2.01537	
	ssp245	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				4.43803	
	ssp370	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				10.55930	

time
2497-01-01 00:00:00 \

model	scenario	region	variable	unit	climatemodel
unit_context					
unspecified	historical	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				2.51446	
	ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				1.29172	
	ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				2.01466	
	ssp245	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				4.43629	
	ssp370	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				10.55700	

time
2498-01-01 00:00:00 \

model	scenario	region	variable	unit	climatemodel
unit_context					
unspecified	historical	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				2.51446	
	ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				1.29132	
	ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM

```

not_required          2.01395
      ssp245      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          4.43456
      ssp370      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          10.55460

time
2499-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          2.51446
      ssp119      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          1.29093
      ssp126      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          2.01324
      ssp245      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          4.43283
      ssp370      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          10.55230

time
2500-01-01 00:00:00
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          2.51446
      ssp119      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          1.29073
      ssp126      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          2.01288
      ssp245      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          4.43196
      ssp370      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          10.55110

[5 rows x 751 columns]

```

```
[13]: db[variable].unique()
```

```

[13]: array(['Effective Radiative Forcing',
            'Effective Radiative Forcing|Anthropogenic',
            'Effective Radiative Forcing|Anthropogenic|Aerosols',
            'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-cloud
Interactions',
            'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
Interactions',

```

'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|BC and OC|BC',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|BC and OC|OC',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Biomass Burning',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Biomass Burning|BC and OC',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Biomass Burning|BC and OC|BC',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Biomass Burning|BC and OC|OC',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Fossil and Industrial|BC and OC|BC',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Fossil and Industrial|BC and OC|OC',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Fossil and Industrial|Nitrate',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Fossil and Industrial|Sulfate',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Mineral Dust',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|NH3|Fossil and Industrial',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Nitrate',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Other',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Other|Sea salts',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Other|Secondary Organic Aerosols',
 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
 Interactions|Sulfate',
 'Effective Radiative Forcing|Anthropogenic|Albedo Change',
 'Effective Radiative Forcing|Anthropogenic|Albedo Change|Other|Deposition
 of Black Carbon on Snow',
 'Effective Radiative Forcing|Anthropogenic|Albedo Change|Other|Land Cover
 Change',
 'Effective Radiative Forcing|Anthropogenic|CH4',
 'Effective Radiative Forcing|Anthropogenic|CO2',
 'Effective Radiative Forcing|Anthropogenic|F-Gases',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC125',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC134a',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC143a',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC152a',

'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC227ea',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC23',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC236fa',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC245fa',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC32',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC365mfc',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC4310mee',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|NF3',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|PFC',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|PFC|C2F6',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|PFC|C3F8',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|PFC|C4F10',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|PFC|C5F12',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|PFC|C6F14',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|PFC|C7F16',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|PFC|C8F18',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|PFC|CF4',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|PFC|cC4F8',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|SF6',
 'Effective Radiative Forcing|Anthropogenic|F-Gases|SO2F2',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|CCl4',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|CFC',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|CFC|CFC11',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|CFC|CFC113',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|CFC|CFC114',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|CFC|CFC115',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|CFC|CFC12',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|CH2Cl2',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|CH3Br',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|CH3CCl3',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|CH3Cl',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|CHCl3',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|HCFC141b',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|HCFC142b',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|HCFC22',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|Halon1202',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|Halon1211',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|Halon1301',
 'Effective Radiative Forcing|Anthropogenic|Montreal Gases|Halon2402',
 'Effective Radiative Forcing|Anthropogenic|N2O',
 'Effective Radiative Forcing|Anthropogenic|Other',
 'Effective Radiative Forcing|Anthropogenic|Other|BC on Snow',
 'Effective Radiative Forcing|Anthropogenic|Other|CH4 Oxidation
 Stratospheric H2O',
 'Effective Radiative Forcing|Anthropogenic|Other|Contrails and Contrail-
 induced Cirrus',

```

'Effective Radiative Forcing|Anthropogenic|Other|Other WMGHGs',
'Effective Radiative Forcing|Anthropogenic|Stratospheric Ozone',
'Effective Radiative Forcing|Anthropogenic|Tropospheric Ozone'],
dtype=object)

```

```
[14]: db[climatemodel].unique()
```

```
[14]: array(['Cicero-SCM', 'Cicero-SCM-ECS3', 'FaIR-1.5-DEFAULT',
'MAGICC7.1.0.beta-rcmip-phase-1', 'OSCARv3.0'], dtype=object)
```

```
[15]: db[scenario].unique()
```

```
[15]: array(['historical', 'ssp119', 'ssp126', 'ssp245', 'ssp370',
'ssp370-lowNTCF-aerchemmip', 'ssp370-lowNTCF-gidden', 'ssp585'],
dtype=object)
```

```
[16]: db['unit'].unique()
```

```
[16]: array(['W/m^2'], dtype=object)
```

```
[17]: for cm in db[climatemodel].unique():
print(cm+' has the following model:')
print(db.filter(climatemodel=cm)['model'].unique())
```

Cicero-SCM has the following model:

['unspecified']

Cicero-SCM-ECS3 has the following model:

['unspecified']

FaIR-1.5-DEFAULT has the following model:

['unspecified']

MAGICC7.1.0.beta-rcmip-phase-1 has the following model:

['unspecified']

OSCARv3.0 has the following model:

['unspecified' 'IMAGE' 'MESSAGE-GLOBIOM' 'AIM' 'REMIND-MAGPIE']

```
[18]: db.filter(climatemodel='OSCARv3.0', variable='Effective Radiative_
↪Forcing|Anthropogenic', scenario=scenarios_fl).head(20)
```

```
[18]: time
1850-01-01 00:00:00 \
model          scenario          region variable
unit climatemodel unit_context
unspecified    historical          World Effective Radiative
Forcing|Anthropogenic W/m^2 OSCARv3.0 not_required          -0.076964
IMAGE          ssp119              World Effective Radiative
Forcing|Anthropogenic W/m^2 OSCARv3.0 not_required          -0.060282
              ssp126              World Effective Radiative
```


Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.060282
MESSAGE-GLOBIOM ssp245	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.060282
AIM ssp370	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.060282
ssp370-lowNTCF-aerchemmip	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.060282
unspecified ssp370-lowNTCF-gidden	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.060282
REMIND-MAGPIE ssp585	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.060282

time

1851-01-01 00:00:00 \

model	scenario	region variable
unit	climatemodel unit_context	
unspecified	historical	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.081281
IMAGE ssp119	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.058564
ssp126	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.058564
MESSAGE-GLOBIOM ssp245	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.058564
AIM ssp370	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.058564
ssp370-lowNTCF-aerchemmip	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.058564
unspecified ssp370-lowNTCF-gidden	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.058564
REMIND-MAGPIE ssp585	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.058564

time

1852-01-01 00:00:00 \

model	scenario	region variable
unit	climatemodel unit_context	
unspecified	historical	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.079519
IMAGE ssp119	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.056234
ssp126	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.056234
MESSAGE-GLOBIOM ssp245	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.056234
AIM ssp370	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.056234

	ssp370-lowNTCF-aerchemmip	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.056234
unspecified	ssp370-lowNTCF-gidden	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.056234
REMIND-MAGPIE	ssp585	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.056234

time

1853-01-01 00:00:00 \

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.077169
IMAGE	ssp119	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.054842
	ssp126	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.054842
MESSAGE-GLOBIOM	ssp245	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.054842
AIM	ssp370	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.054842
	ssp370-lowNTCF-aerchemmip	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.054842
unspecified	ssp370-lowNTCF-gidden	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.054842
REMIND-MAGPIE	ssp585	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.054842

time

1854-01-01 00:00:00 \

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.075742
IMAGE	ssp119	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.052440
	ssp126	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.052440
MESSAGE-GLOBIOM	ssp245	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.052440
AIM	ssp370	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.052440
	ssp370-lowNTCF-aerchemmip	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.052440
unspecified	ssp370-lowNTCF-gidden	World	Effective Radiative
Forcing Anthropogenic W/m ²	OSCARv3.0	not_required	-0.052440
REMIND-MAGPIE	ssp585	World	Effective Radiative

Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.052440
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time

1855-01-01 00:00:00 \

model	scenario	region variable
unit	climatemodel unit_context	
unspecified	historical	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.073326
IMAGE	ssp119	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.050332
	ssp126	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.050332
MESSAGE-GLOBIOM	ssp245	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.050332
AIM	ssp370	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.050332
	ssp370-lowNTCF-aerchemmip	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.050332
unspecified	ssp370-lowNTCF-gidden	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.050332
REMIND-MAGPIE	ssp585	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.050332

time

1856-01-01 00:00:00 \

model	scenario	region variable
unit	climatemodel unit_context	
unspecified	historical	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.071199
IMAGE	ssp119	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.046865
	ssp126	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.046865
MESSAGE-GLOBIOM	ssp245	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.046865
AIM	ssp370	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.046865
	ssp370-lowNTCF-aerchemmip	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.046865
unspecified	ssp370-lowNTCF-gidden	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.046865
REMIND-MAGPIE	ssp585	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.046865

time

1857-01-01 00:00:00 \

model	scenario	region variable
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unit	climatemodel	unit_context		
unspecified	historical		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.067719
IMAGE	ssp119		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.043252
	ssp126		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.043252
MESSAGE-GLOBIOM	ssp245		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.043252
AIM	ssp370		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.043252
	ssp370-lowNTCF-aerchemmip		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.043252
unspecified	ssp370-lowNTCF-gidden		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.043252
REMIND-MAGPIE	ssp585		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.043252

time

1858-01-01 00:00:00 \

model	scenario		region	variable
unit	climatemodel	unit_context		
unspecified	historical		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.064091
IMAGE	ssp119		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.039609
	ssp126		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.039609
MESSAGE-GLOBIOM	ssp245		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.039609
AIM	ssp370		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.039609
	ssp370-lowNTCF-aerchemmip		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.039609
unspecified	ssp370-lowNTCF-gidden		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.039609
REMIND-MAGPIE	ssp585		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.039609

time

1859-01-01 00:00:00 \

model	scenario		region	variable
unit	climatemodel	unit_context		
unspecified	historical		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.060424
IMAGE	ssp119		World	Effective Radiative
Forcing Anthropogenic	W/m ²	OSCARv3.0	not_required	-0.034446

ssp126	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.034446
MESSAGE-GLOBIOM ssp245	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.034446
AIM ssp370	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.034446
ssp370-lowNTCF-aerchemmip	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.034446
unspecified ssp370-lowNTCF-gidden	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.034446
REMIND-MAGPIE ssp585	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	-0.034446

time

... \

model	scenario	region variable
unit climatemodel unit_context	...	
unspecified	historical	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0		not_required ...
IMAGE ssp119		World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0		not_required ...
ssp126		World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0		not_required ...
MESSAGE-GLOBIOM ssp245		World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0		not_required ...
AIM ssp370		World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0		not_required ...
ssp370-lowNTCF-aerchemmip		World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0		not_required ...
unspecified ssp370-lowNTCF-gidden		World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0		not_required ...
REMIND-MAGPIE ssp585		World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0		not_required ...

time

2490-01-01 00:00:00 \

model	scenario	region variable
unit climatemodel unit_context		
unspecified	historical	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0		not_required NaN
IMAGE ssp119		World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0		not_required 1.111665
ssp126		World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0		not_required 1.771758
MESSAGE-GLOBIOM ssp245		World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0		not_required 3.991203
AIM ssp370		World Effective Radiative

Forcing Anthropogenic W/m ² OSCARv3.0	not_required	9.239154
ssp370-lowNTCF-aerchemmip	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	9.234012
unspecified ssp370-lowNTCF-gidden	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	8.792695
REMIND-MAGPIE ssp585	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	10.401591

time

2491-01-01 00:00:00 \

model	scenario	region variable
unit	climatemodel unit_context	
unspecified	historical	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	NaN
IMAGE ssp119	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	1.111291
ssp126	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	1.771091
MESSAGE-GLOBIOM ssp245	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	3.989627
AIM ssp370	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	9.237146
ssp370-lowNTCF-aerchemmip	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	9.232006
unspecified ssp370-lowNTCF-gidden	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	8.790658
REMIND-MAGPIE ssp585	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	10.399627

time

2492-01-01 00:00:00 \

model	scenario	region variable
unit	climatemodel unit_context	
unspecified	historical	World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	NaN
IMAGE ssp119	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	1.110920
ssp126	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	1.770413
MESSAGE-GLOBIOM ssp245	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	3.988051
AIM ssp370	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	9.235138
ssp370-lowNTCF-aerchemmip	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	9.230000
unspecified ssp370-lowNTCF-gidden	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	8.788663

REMIND-MAGPIE	ssp585	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	10.397697

time

2493-01-01 00:00:00 \

model	scenario	region variable	
unit	climatemodel unit_context		
unspecified	historical	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	NaN
IMAGE	ssp119	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	1.110545
	ssp126	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	1.769733
MESSAGE-GLOBIOM	ssp245	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	3.986475
AIM	ssp370	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	9.233125
	ssp370-lowNTCF-aerchemmip	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	9.227988
unspecified	ssp370-lowNTCF-gidden	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	8.786630
REMIND-MAGPIE	ssp585	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	10.395793

time

2494-01-01 00:00:00 \

model	scenario	region variable	
unit	climatemodel unit_context		
unspecified	historical	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	NaN
IMAGE	ssp119	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	1.110174
	ssp126	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	1.769070
MESSAGE-GLOBIOM	ssp245	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	3.984906
AIM	ssp370	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	9.231114
	ssp370-lowNTCF-aerchemmip	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	9.225980
unspecified	ssp370-lowNTCF-gidden	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	8.784596
REMIND-MAGPIE	ssp585	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0		not_required	10.393881

time

2495-01-01 00:00:00 \

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	NaN
IMAGE	ssp119	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	1.109817
	ssp126	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	1.768392
MESSAGE-GLOBIOM	ssp245	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	3.983341
AIM	ssp370	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	9.229143
	ssp370-lowNTCF-aerchemmip	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	9.224010
unspecified	ssp370-lowNTCF-gidden	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	8.782601
REMIND-MAGPIE	ssp585	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	10.391950

time

2496-01-01 00:00:00 \

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	NaN
IMAGE	ssp119	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	1.109445
	ssp126	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	1.767726
MESSAGE-GLOBIOM	ssp245	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	3.981773
AIM	ssp370	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	9.227137
	ssp370-lowNTCF-aerchemmip	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	9.222005
unspecified	ssp370-lowNTCF-gidden	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	8.780559
REMIND-MAGPIE	ssp585	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	10.390021

time

2497-01-01 00:00:00 \

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical	World	Effective Radiative
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required	NaN
IMAGE	ssp119	World	Effective Radiative

Forcing Anthropogenic W/m ² OSCARv3.0	not_required	1.109074
ssp126	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	1.767062
MESSAGE-GLOBIOM ssp245	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	3.980217
AIM ssp370	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	9.225125
ssp370-lowNTCF-aerchemmip	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	9.219996
unspecified ssp370-lowNTCF-gidden	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	8.778563
REMIND-MAGPIE ssp585	World Effective Radiative	
Forcing Anthropogenic W/m ² OSCARv3.0	not_required	10.388116

time

2498-01-01 00:00:00 \

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical		World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0			not_required NaN
IMAGE ssp119			World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0			not_required 1.108704
ssp126			World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0			not_required 1.766399
MESSAGE-GLOBIOM ssp245			World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0			not_required 3.978660
AIM ssp370			World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0			not_required 9.223154
ssp370-lowNTCF-aerchemmip			World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0			not_required 9.218026
unspecified ssp370-lowNTCF-gidden			World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0			not_required 8.776528
REMIND-MAGPIE ssp585			World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0			not_required 10.386238

time

2499-01-01 00:00:00

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical		World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0			not_required NaN
IMAGE ssp119			World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0			not_required 1.108529
ssp126			World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0			not_required 1.766080
MESSAGE-GLOBIOM ssp245			World Effective Radiative
Forcing Anthropogenic W/m ² OSCARv3.0			not_required 3.977912

AIM	ssp370	World	Effective Radiative	
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required		9.222156
	ssp370-lowNTCF-aerchemmip	World	Effective Radiative	
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required		9.217030
unspecified	ssp370-lowNTCF-gidden	World	Effective Radiative	
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required		8.775559
REMIND-MAGPIE	ssp585	World	Effective Radiative	
Forcing Anthropogenic	W/m ² OSCARv3.0	not_required		10.385259

[8 rows x 650 columns]

1.3 Unify the units

Make sure all models have the same, correct units:

```
[19]: import ar6_ch6_rcmipfigs.utils.misc_func as misc_func # misc_func
```

```
DATA_PROTOCOL = os.path.join(
    INPUT_DATA_DIR,
    "data",
    "submission-template",
    "rcmip-data-submission-template.xlsx",
)
protocol_variables = misc_func.get_protocol_vars(DATA_PROTOCOL)
```

```
[20]: protocol_scenarios = misc_func.get_protocol_scenarios(DATA_PROTOCOL)
```

```
[21]: #from ar6_ch6_rcmipfigs.utils.misc_func import unify_units
from ar6_ch6_rcmipfigs.utils.plot import plot_available_out

#db_converted_units = unify_units(db, protocol_variables)
```

```
[22]: db.head()
```

```
[22]: time
1750-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01722
          ssp119      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01722
          ssp126      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01722
          ssp245      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          -0.01722
```

```

        ssp370      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.01722

time
1751-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.016014
        ssp119      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.016014
        ssp126      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.016014
        ssp245      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.016014
        ssp370      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.016014

time
1752-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.01424
        ssp119      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.01424
        ssp126      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.01424
        ssp245      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.01424
        ssp370      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.01424

time
1753-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.01291
        ssp119      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.01291
        ssp126      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.01291
        ssp245      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.01291
        ssp370      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.01291

```

```

time
1754-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.011454
      ssp119      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.011454
      ssp126      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.011454
      ssp245      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.011454
      ssp370      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.011454

```

```

time
1755-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009903
      ssp119      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009903
      ssp126      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009903
      ssp245      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009903
      ssp370      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009903

```

```

time
1756-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009132
      ssp119      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009132
      ssp126      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009132
      ssp245      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009132
      ssp370      World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.009132

```

```

time

```

```

1757-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.006713
      ssp119      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.006713
      ssp126      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.006713
      ssp245      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.006713
      ssp370      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.006713

```

```

time
1758-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005941
      ssp119      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005941
      ssp126      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005941
      ssp245      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005941
      ssp370      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005941

```

```

time
1759-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005388
      ssp119      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005388
      ssp126      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005388
      ssp245      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005388
      ssp370      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      -0.005388

```

```

time
... \
model      scenario  region variable          unit  climatemodel

```

```

unit_context ...
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required ...
    ssp119 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required ...
    ssp126 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required ...
    ssp245 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required ...
    ssp370 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required ...

```

```

time
2491-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      2.51446
    ssp119 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      1.29407
    ssp126 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      2.01896
    ssp245 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      4.44678
    ssp370 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      10.57100

```

```

time
2492-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      2.51446
    ssp119 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      1.29368
    ssp126 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      2.01824
    ssp245 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      4.44502
    ssp370 World Effective Radiative Forcing W/m^2 Cicero-SCM
not_required      10.56870

```

```

time
2493-01-01 00:00:00 \
model      scenario  region variable          unit  climatemodel
unit_context
unspecified historical World Effective Radiative Forcing W/m^2 Cicero-SCM

```

not_required	2.51446				
ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	1.29328				
ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	2.01752				
ssp245	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	4.44327				
ssp370	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	10.56630				

time
2494-01-01 00:00:00 \

model	scenario	region	variable	unit	climatemodel
unit_context					
unspecified historical	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	2.51446				
ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	1.29288				
ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	2.01680				
ssp245	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	4.44152				
ssp370	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	10.56400				

time
2495-01-01 00:00:00 \

model	scenario	region	variable	unit	climatemodel
unit_context					
unspecified historical	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	2.51446				
ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	1.29249				
ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	2.01609				
ssp245	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	4.43977				
ssp370	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	10.56160				

time
2496-01-01 00:00:00 \

model	scenario	region	variable	unit	climatemodel
unit_context					
unspecified historical	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	
not_required	2.51446				
ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM	

not_required		1.29211			
	ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required		2.01537			
	ssp245	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required		4.43803			
	ssp370	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required		10.55930			

time
2497-01-01 00:00:00 \

model	scenario	region	variable	unit	climatemodel
unit_context					
unspecified	historical	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				2.51446	
	ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				1.29172	
	ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				2.01466	
	ssp245	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				4.43629	
	ssp370	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				10.55700	

time
2498-01-01 00:00:00 \

model	scenario	region	variable	unit	climatemodel
unit_context					
unspecified	historical	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				2.51446	
	ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				1.29132	
	ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				2.01395	
	ssp245	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				4.43456	
	ssp370	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				10.55460	

time
2499-01-01 00:00:00 \

model	scenario	region	variable	unit	climatemodel
unit_context					
unspecified	historical	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				2.51446	
	ssp119	World	Effective Radiative Forcing	W/m ²	Cicero-SCM
not_required				1.29093	
	ssp126	World	Effective Radiative Forcing	W/m ²	Cicero-SCM


```

not_required          2.01324
      ssp245      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          4.43283
      ssp370      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          10.55230

time
2500-01-01 00:00:00
model      scenario      region variable      unit      climatemodel
unit_context
unspecified historical World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          2.51446
      ssp119      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          1.29073
      ssp126      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          2.01288
      ssp245      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          4.43196
      ssp370      World  Effective Radiative Forcing W/m^2 Cicero-SCM
not_required          10.55110

[5 rows x 751 columns]

```

and for these the subcategories can be added up to the total:

Sum up subcategories of

erf_aerosols = "Effective Radiative Forcing|Anthropogenic|Aerosols"

erf_HFC = "Effective Radiative Forcing|Anthropogenic|F-Gases|HFC"

1.4 Aggregate and rename

```
[23]: from ar6_ch6_rcmipfigs.utils.misc_func import aggregate_variable
```

```
[24]: erf_aerosols = "Effective Radiative Forcing|Anthropogenic|Aerosols"
db_aggregated = db.copy()
for cmod in db_aggregated[climatemodel].unique():
    db_aggregated = aggregate_variable(db_aggregated, erf_aerosols, cmod) #
    ↪ "Effective Radiative Forcing|Anthropogenic|F-Gases|HFC")
```

Model Cicero-SCM already has variable, returns unchanged

Model Cicero-SCM-ECS3 already has variable, returns unchanged

Model FaIR-1.5-DEFAULT already has variable, returns unchanged

Filtered ScmDataFrame is empty!

Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*

Group:

```

('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp119', 'unspecified',
'W/m^2', 'World')
Aggregates:
[('unspecified', 'ssp119', 'World', 'Effective Radiative
Forcing|Anthropogenic|Aerosols|Aerosols-cloud Interactions', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp119',
'World', 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
Interactions', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required')]
Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*
Group:
('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp126', 'unspecified',
'W/m^2', 'World')
Aggregates:
[('unspecified', 'ssp126', 'World', 'Effective Radiative
Forcing|Anthropogenic|Aerosols|Aerosols-cloud Interactions', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp126',
'World', 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
Interactions', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required')]
Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*
Group:
('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp245', 'unspecified',
'W/m^2', 'World')
Aggregates:
[('unspecified', 'ssp245', 'World', 'Effective Radiative
Forcing|Anthropogenic|Aerosols|Aerosols-cloud Interactions', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp245',
'World', 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
Interactions', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required')]
Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*
Group:
('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp370', 'unspecified',
'W/m^2', 'World')
Aggregates:
[('unspecified', 'ssp370', 'World', 'Effective Radiative
Forcing|Anthropogenic|Aerosols|Aerosols-cloud Interactions', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370',
'World', 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
Interactions', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required')]
Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*
Group:
('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp370-lowNTCF-aerchemmip',
'unspecified', 'W/m^2', 'World')
Aggregates:
[('unspecified', 'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative
Forcing|Anthropogenic|Aerosols|Aerosols-cloud Interactions', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative
Forcing|Anthropogenic|Aerosols|Aerosols-radiation Interactions', 'W/m^2',

```

```
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'))]
Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*
Group:
('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp370-lowNTCF-gidden',
'unspecified', 'W/m^2', 'World')
Aggregates:
[('unspecified', 'ssp370-lowNTCF-gidden', 'World', 'Effective Radiative
Forcing|Anthropogenic|Aerosols|Aerosols-cloud Interactions', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp370-lowNTCF-gidden', 'World', 'Effective Radiative
Forcing|Anthropogenic|Aerosols|Aerosols-radiation Interactions', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required')]
Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*
Group:
('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp585', 'unspecified',
'W/m^2', 'World')
Aggregates:
[('unspecified', 'ssp585', 'World', 'Effective Radiative
Forcing|Anthropogenic|Aerosols|Aerosols-cloud Interactions', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp585',
'World', 'Effective Radiative Forcing|Anthropogenic|Aerosols|Aerosols-radiation
Interactions', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required')]
Model OSCARv3.0 already has variable, returns unchanged
```

```
[25]: erf_HFC = "Effective Radiative Forcing|Anthropogenic|F-Gases|HFC"
# aggregate HFC variables
for cmmod in db_aggregated[climatemodel].unique():
    db_aggregated = aggregate_variable(db_aggregated, erf_HFC, cmmod) #
    ↪ "Effective Radiative Forcing|Anthropogenic|F-Gases|HFC"
# )
```

Model Cicero-SCM already has variable, returns unchanged

Filtered ScmDataFrame is empty!

Model Cicero-SCM-ECS3 already has variable, returns unchanged

Filtered ScmDataFrame is empty!

No variables to aggregate found in model FaIR-1.5-DEFAULT. Returns unchanged

Filtered ScmDataFrame is empty!

Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*

Group:

```
('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp119', 'unspecified',
'W/m^2', 'World')
```

Aggregates:

```
[('unspecified', 'ssp119', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC125', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp119', 'World', 'Effective
```

```

Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC134a', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp119',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC143a',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp119', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC152a', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp119', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC227ea', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp119',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC23', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp119',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC236fa',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp119', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC245fa', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp119', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC32', 'W/m^2', 'MAGICC7.1.0.beta-
rcmip-phase-1', 'not_required'), ('unspecified', 'ssp119', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC365mfc', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp119',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC4310mee',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required')]
Aggregating for model MAGICC7.1.0.beta-rcmip-phase-1:*
Group:
('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp126', 'unspecified',
'W/m^2', 'World')
Aggregates:
[('unspecified', 'ssp126', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC125', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp126', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC134a', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp126',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC143a',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp126', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC152a', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp126', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC227ea', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp126',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC23', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp126',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC236fa',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp126', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC245fa', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp126', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC32', 'W/m^2', 'MAGICC7.1.0.beta-
rcmip-phase-1', 'not_required'), ('unspecified', 'ssp126', 'World', 'Effective

```

```

Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC365mfc', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp126',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC4310mee',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required')]
Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*
Group:
('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp245', 'unspecified',
'W/m^2', 'World')
Aggregates:
[(('unspecified', 'ssp245', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC125', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp245', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC134a', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp245',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC143a',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp245', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC152a', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp245', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC227ea', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp245',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC23', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp245',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC236fa',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp245', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC245fa', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp245', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC32', 'W/m^2', 'MAGICC7.1.0.beta-
rcmip-phase-1', 'not_required'), ('unspecified', 'ssp245', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC365mfc', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp245',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC4310mee',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required')])
Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*
Group:
('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp370', 'unspecified',
'W/m^2', 'World')
Aggregates:
[(('unspecified', 'ssp370', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC125', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp370', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC134a', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC143a',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp370', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC152a', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-

```

phase-1', 'not_required'), ('unspecified', 'ssp370', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC227ea', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC23', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC236fa', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC245fa', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC32', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC365mfc', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC4310mee', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required')]

Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*

Group:

('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp370-lowNTCF-aerchemmip', 'unspecified', 'W/m²', 'World')

Aggregates:

[('unspecified', 'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC125', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC134a', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC143a', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC152a', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC227ea', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC23', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC236fa', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC245fa', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC32', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC365mfc', 'W/m²', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-aerchemmip', 'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC4310mee', 'W/m²', 'MAGICC7.1.0.beta-rcmip-

```

phase-1', 'not_required'))]
Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*
Group:
('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp370-lowNTCF-gidden',
'unspecified', 'W/m^2', 'World')
Aggregates:
[('unspecified', 'ssp370-lowNTCF-gidden', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC125', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-gidden', 'World',
'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC134a', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp370-lowNTCF-gidden', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC143a', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-gidden', 'World',
'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC152a', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp370-lowNTCF-gidden', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC227ea', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-gidden', 'World',
'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC23', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp370-lowNTCF-gidden', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC236fa', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-gidden', 'World',
'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC245fa', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp370-lowNTCF-gidden', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC32', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp370-lowNTCF-gidden', 'World',
'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC365mfc', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp370-lowNTCF-gidden', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC4310mee', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'))]
Aggragating for model MAGICC7.1.0.beta-rcmip-phase-1:*
Group:
('not_required', 'MAGICC7.1.0.beta-rcmip-phase-1', 'ssp585', 'unspecified',
'W/m^2', 'World')
Aggregates:
[('unspecified', 'ssp585', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC125', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp585', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC134a', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp585',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC143a',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp585', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC152a', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-

```

```

phase-1', 'not_required'), ('unspecified', 'ssp585', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC227ea', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp585',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC23', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp585',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC236fa',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified',
'ssp585', 'World', 'Effective Radiative
Forcing|Anthropogenic|F-Gases|HFC|HFC245fa', 'W/m^2', 'MAGICC7.1.0.beta-rcmip-
phase-1', 'not_required'), ('unspecified', 'ssp585', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC32', 'W/m^2', 'MAGICC7.1.0.beta-
rcmip-phase-1', 'not_required'), ('unspecified', 'ssp585', 'World', 'Effective
Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC365mfc', 'W/m^2',
'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required'), ('unspecified', 'ssp585',
'World', 'Effective Radiative Forcing|Anthropogenic|F-Gases|HFC|HFC4310mee',
'W/m^2', 'MAGICC7.1.0.beta-rcmip-phase-1', 'not_required')]
Model OSCARv3.0 already has variable, returns unchanged

```

```

[26]: # aggregate Aerosols:
db_aggregated.filter(
    variable=erf_HFC # "Effective Radiative Forcing|Anthropogenic|F-Gases|HFC"
).head()

```

```

[26]: time
1750-01-01 00:00:00 \
model      scenario  region variable
unit  climatemodel unit_context
unspecified historical World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required                                0.0
      ssp119      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required                                0.0
      ssp126      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required                                0.0
      ssp245      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required                                0.0
      ssp370      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required                                0.0

time
1751-01-01 00:00:00 \
model      scenario  region variable
unit  climatemodel unit_context
unspecified historical World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required                                0.0
      ssp119      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required                                0.0
      ssp126      World  Effective Radiative Forcing|Anthropogenic|F-Gas...

```


W/m ² Cicero-SCM	not_required	0.0
ssp245	World Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0
ssp370	World Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0

time

1752-01-01 00:00:00 \

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.0	
ssp119	World Effective Radiative Forcing Anthropogenic F-Gas...		
W/m ² Cicero-SCM	not_required	0.0	
ssp126	World Effective Radiative Forcing Anthropogenic F-Gas...		
W/m ² Cicero-SCM	not_required	0.0	
ssp245	World Effective Radiative Forcing Anthropogenic F-Gas...		
W/m ² Cicero-SCM	not_required	0.0	
ssp370	World Effective Radiative Forcing Anthropogenic F-Gas...		
W/m ² Cicero-SCM	not_required	0.0	

time

1753-01-01 00:00:00 \

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.0	
ssp119	World Effective Radiative Forcing Anthropogenic F-Gas...		
W/m ² Cicero-SCM	not_required	0.0	
ssp126	World Effective Radiative Forcing Anthropogenic F-Gas...		
W/m ² Cicero-SCM	not_required	0.0	
ssp245	World Effective Radiative Forcing Anthropogenic F-Gas...		
W/m ² Cicero-SCM	not_required	0.0	
ssp370	World Effective Radiative Forcing Anthropogenic F-Gas...		
W/m ² Cicero-SCM	not_required	0.0	

time

1754-01-01 00:00:00 \

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.0	
ssp119	World Effective Radiative Forcing Anthropogenic F-Gas...		
W/m ² Cicero-SCM	not_required	0.0	
ssp126	World Effective Radiative Forcing Anthropogenic F-Gas...		
W/m ² Cicero-SCM	not_required	0.0	
ssp245	World Effective Radiative Forcing Anthropogenic F-Gas...		

W/m ² Cicero-SCM	not_required	0.0
ssp370	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.0

time

1755-01-01 00:00:00 \

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.0	
ssp119	World	Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0	
ssp126	World	Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0	
ssp245	World	Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0	
ssp370	World	Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0	

time

1756-01-01 00:00:00 \

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.0	
ssp119	World	Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0	
ssp126	World	Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0	
ssp245	World	Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0	
ssp370	World	Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0	

time

1757-01-01 00:00:00 \

model	scenario	region	variable
unit	climatemodel	unit_context	
unspecified	historical	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.0	
ssp119	World	Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0	
ssp126	World	Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0	
ssp245	World	Effective Radiative Forcing Anthropogenic F-Gas...	
W/m ² Cicero-SCM	not_required	0.0	
ssp370	World	Effective Radiative Forcing Anthropogenic F-Gas...	

```

W/m^2 Cicero-SCM    not_required          0.0

time
1758-01-01 00:00:00 \
model      scenario  region variable
unit  climatemodel unit_context
unspecified historical World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required          0.0
           ssp119    World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required          0.0
           ssp126    World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required          0.0
           ssp245    World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required          0.0
           ssp370    World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required          0.0

time
1759-01-01 00:00:00 \
model      scenario  region variable
unit  climatemodel unit_context
unspecified historical World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required          0.0
           ssp119    World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required          0.0
           ssp126    World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required          0.0
           ssp245    World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required          0.0
           ssp370    World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required          0.0

time
... \
model      scenario  region variable
unit  climatemodel unit_context ...
unspecified historical World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required ...
           ssp119    World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required ...
           ssp126    World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required ...
           ssp245    World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required ...
           ssp370    World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM    not_required ...

```

```

time
2491-01-01 00:00:00 \
model      scenario  region variable
unit  climatemodel unit_context
unspecified historical World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.025469
      ssp119      World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000689
      ssp126      World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000648
      ssp245      World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000631
      ssp370      World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000678

```

```

time
2492-01-01 00:00:00 \
model      scenario  region variable
unit  climatemodel unit_context
unspecified historical World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.025469
      ssp119      World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000686
      ssp126      World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000645
      ssp245      World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000627
      ssp370      World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000673

```

```

time
2493-01-01 00:00:00 \
model      scenario  region variable
unit  climatemodel unit_context
unspecified historical World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.025469
      ssp119      World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000682
      ssp126      World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000642
      ssp245      World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000623
      ssp370      World Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000668

```

```

time
2494-01-01 00:00:00 \

```

```

model      scenario  region variable
unit  climatemodel unit_context
unspecified historical World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.025469
      ssp119      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000679
      ssp126      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000638
      ssp245      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000619
      ssp370      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000663

```

time

2495-01-01 00:00:00 \

```

model      scenario  region variable
unit  climatemodel unit_context
unspecified historical World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.025469
      ssp119      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000676
      ssp126      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000635
      ssp245      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000615
      ssp370      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000658

```

time

2496-01-01 00:00:00 \

```

model      scenario  region variable
unit  climatemodel unit_context
unspecified historical World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.025469
      ssp119      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000672
      ssp126      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000632
      ssp245      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000611
      ssp370      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required          0.000653

```

time

2497-01-01 00:00:00 \

```

model      scenario  region variable
unit  climatemodel unit_context

```

unspecified historical	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.025469
ssp119	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.000669
ssp126	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.000629
ssp245	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.000608
ssp370	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.000649

time

2498-01-01 00:00:00 \

model	scenario	region	variable
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unit	climatemodel	unit_context
------	--------------	--------------

unspecified historical	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.025469
ssp119	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.000666
ssp126	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.000626
ssp245	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.000604
ssp370	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.000644

time

2499-01-01 00:00:00 \

model	scenario	region	variable
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unit	climatemodel	unit_context
------	--------------	--------------

unspecified historical	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.025469
ssp119	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.000663
ssp126	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.000623
ssp245	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.000600
ssp370	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.000639

time

2500-01-01 00:00:00

model	scenario	region	variable
-------	----------	--------	----------

unit	climatemodel	unit_context
------	--------------	--------------

unspecified historical	World	Effective Radiative Forcing Anthropogenic F-Gas...
W/m ² Cicero-SCM	not_required	0.025469

```

        ssp119      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required      0.000661
        ssp126      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required      0.000621
        ssp245      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required      0.000598
        ssp370      World  Effective Radiative Forcing|Anthropogenic|F-Gas...
W/m^2 Cicero-SCM  not_required      0.000637

[5 rows x 751 columns]

```

1.5 Rename variable:

```

[27]: wrong_name = 'Effective Radiative Forcing|Anthropogenic|Albedo|
        ↳Change|Other|Deposition of Black Carbon on Snow'
right_name = 'Effective Radiative Forcing|Anthropogenic|Other|BC on Snow'
print('Wrong name in climatemodels:')
print(db_aggregated.filter(variable=wrong_name)[climatemodel].unique())
print('Right name in climatemodels:')
print(db_aggregated.filter(variable=right_name)[climatemodel].unique())

```

Wrong name in climatemodels:

```
['OSCARv3.0']
```

Right name in climatemodels:

```
['FaIR-1.5-DEFAULT' 'MAGICC7.1.0.beta-rcmip-phase-1']
```

```

[28]: _db = db_aggregated.timeseries().reset_index()
_db[variable] = _db[variable].apply(lambda x: right_name if x == wrong_name
        ↳else x)
_db=ScmDataFrame(_db)
db_aggregated = _db
print('Wrong name in climatemodels:')
print(db_aggregated.filter(variable=wrong_name)[climatemodel].unique())
print('Right name in climatemodels:')
print(db_aggregated.filter(variable=right_name)[climatemodel].unique())

```

Wrong name in climatemodels:

Filtered ScmDataFrame is empty!

```
[]
```

Right name in climatemodels:

```
['OSCARv3.0' 'FaIR-1.5-DEFAULT' 'MAGICC7.1.0.beta-rcmip-phase-1']
```

```

[29]: db_aggregated['model'].unique()

```

```
[29]: array(['unspecified', 'IMAGE', 'MESSAGE-GLOBIOM', 'AIM', 'REMIND-MAGPIE'],
          dtype=object)
```

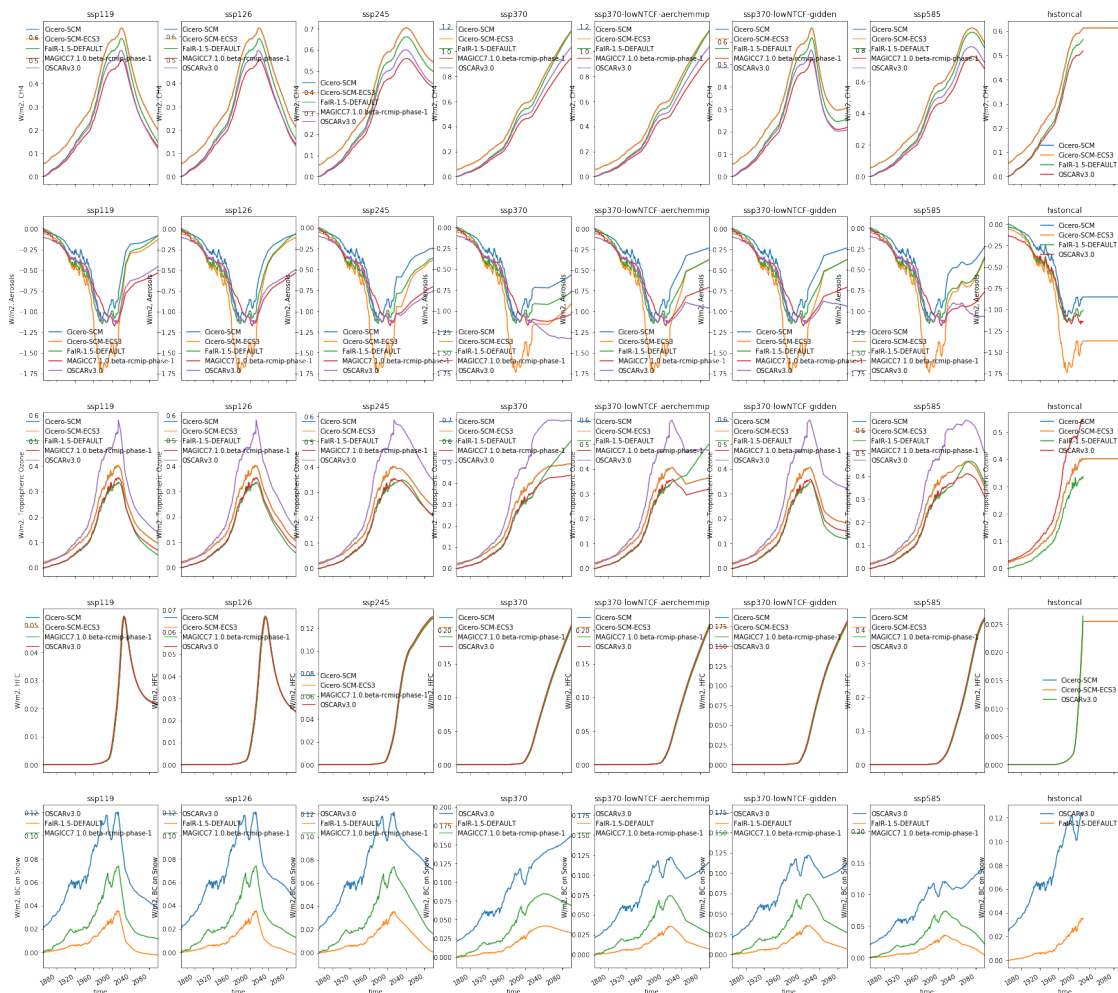
```
[30]: # Don't need this information:
db_aggregated['model'] = ''
db_aggregated['model'].unique()
```

```
[30]: array([''], dtype=object)
```

1.6 Available input overview

The plot below shows which models we have data for:

```
[31]: plot_available_out(db_aggregated, variables_erf_comp, scenarios_fl)
```



1.7 Convert data to xarray dataset

```
[35]: import cftime

t_coord = db_aggregated.timeseries().transpose().index.values

ds = xr.Dataset() # coords={time:t_coord, climatemodel:climatemodels_fl,
#      scenario:scenarios})
first = True
for var in variables_erf_comp + variables_erf_tot:
    # get data array for variable:
    _da = db_aggregated.filter(variable=var, climatemodel=climatemodels_fl
                              ).timeseries().transpose().unstack().to_xarray().
    ↪squeeze()
    # convert to dataset:
    _ds = _da.to_dataset(name=var)
    # remove coordinate for variabel (contained in name):
    del _ds.coords[variable]
    # merge with existing dataset:
    ds = xr.merge([_ds, ds])
ds['year'] = xr.DataArray([t.year for t in ds['time'].values], dims='time')
ds['month'] = xr.DataArray([t.month for t in ds['time'].values], dims='time')
ds['day'] = xr.DataArray([t.day for t in ds['time'].values], dims='time')
# Convert to cftime
dates = [cftime.DatetimeGregorian(y, m, d) for y, m, d in zip(ds['year'],
    ↪ds['month'], ds['day'])]
ds['time'] = dates
ds = ds.sel(time=slice('1850', '2100'))
ds['time'] = pd.to_datetime([pd.datetime(y, m, d) for y, m, d in
    ↪zip(ds['year'], ds['month'], ds['day'])])
# Timestep for integral:
ds['delta_t'] = xr.DataArray(np.ones(len(ds['time'])), dims='time',
    ↪coords={'time': ds['time']})
ds_save = ds.copy()
```

```
[36]: ds
```

```
[36]: <xarray.Dataset>
Dimensions:                                     (climatemodel:
5, scenario: 8, time: 251)
Coordinates:
  * time                                         (time)
datetime64[ns] 1850-01-01 ... 2100-01-01
  model                                         <U1 ''
  * scenario                                    (scenario)
object 'historical' ... 'ssp585'
  region                                       <U5 'World'
```

```

        unit <U5 'W/m^2'
    * climatemodel (climatemodel)
object 'Cicero-SCM' ... 'OSCARv3.0'
    unit_context <U12
'not_required'
Data variables:
    Effective Radiative Forcing (scenario,
climatemodel, time) float64 0.1519 ... 8.846
    Effective Radiative Forcing|Anthropogenic (scenario,
climatemodel, time) float64 0.1465 ... 8.808
    Effective Radiative Forcing|Anthropogenic|Other|BC on Snow (scenario,
climatemodel, time) float64 nan ... 0.143
    Effective Radiative Forcing|Anthropogenic|F-Gases|HFC (scenario,
climatemodel, time) float64 2.505e-08 ... 0.4356
    Effective Radiative Forcing|Anthropogenic|Tropospheric Ozone (scenario,
climatemodel, time) float64 0.0222 ... 0.5016
    Effective Radiative Forcing|Anthropogenic|Aerosols (scenario,
climatemodel, time) float64 -0.03511 ... -1.069
    Effective Radiative Forcing|Anthropogenic|CH4 (scenario,
climatemodel, time) float64 0.05507 ... 0.7203
    year (time) int64
1850 ... 2100
    month (time) int64 1
... 1
    day (time) int64 1
... 1
    delta_t (time) float64
1.0 ... 1.0

```

1.7.1 Save dataset:

```
[37]: ds_save.to_netcdf(SAVEPATH_DATASET)
```

```
[38]: SAVEPATH_DATASET
```

```
[38]: '/home/sarambl/PHD/IPCC/public/AR6_CH6_RCMIPFIGS/ar6_ch6_rcmipfigs/data_out/forcing_data_rcmip_models.nc'
```