

CORDEX data publication

This documentation gives instructions to publish 02_EuroCORDEX_INTERIM_044_v20140616 datasets.

The source code of esgprep must be modified in order to work with symbolic links! See [?https://github.com/IS-ENES-Data/esgf-prepare/pull/3](https://github.com/IS-ENES-Data/esgf-prepare/pull/3)

Change line 308 /usr/local/src/esgf/workbench/esg/esg-publisher/src/python/esgcat/eggs/esgprep-2.7.1-py2.7.egg/esgprep/drs/handler.py from `globals()[self.mode](self.src, self.dst)` to `symlink(self.src, self.dst)`. See [?https://github.com/IS-ENES-Data/esgf-prepare/blob/master/esgprep/drs/handler.py#L308](https://github.com/IS-ENES-Data/esgf-prepare/blob/master/esgprep/drs/handler.py#L308).

Modify /esg/config/esgcat/esg.cordex.ini to fit your needs. In this case:

```
[project:cordex]

categories =
  project      | enum | true | true | 0
  product      | enum | true | true | 1
  domain       | enum | true | true | 2
  institute    | enum | true | true | 3
  driving_model | enum | false | true | 4
  experiment   | enum | false | true | 5
  ensemble     | string | false | true | 6
  rcm_name     | string | false | true | 7
  rcm_version  | enum | false | true | 8
  time_frequency | enum | false | true | 9
  description  | text | false | false | 99

category_defaults =
  project | CORDEX

filename_format = %(variable)s_%(domain)s_%(driving_model)s_%(experiment)s_%(ensemble)s_%(rcm_model)s_%(rcm_version)s_%(time_frequency)s

dataset_id = cordex.%(product)s.%(domain)s.%(institute)s.%(driving_model)s.%(experiment)s.%(ensemble)s.%(rcm_name)s.%(rcm_version)s.%(time_frequency)s

directory_format = %(root)s/%(project)s/%(product)s/%(domain)s/%(institute)s/%(driving_model)s/%(experiment)s/%(ensemble)s/%(rcm_model)s/%(rcm_version)s/%(time_frequency)s

product_options = output

domain_options = AFR-44, AFR-44i, ANT-44, ANT-44i, ARC-44, ARC-44i, AUS-44, AUS-44i, CAM-44, CAM-44i, CAS-44, CAS-44i, EAS-44, EAS-44i

institute_options = AUTH-LHTEE, AUTH-Met, AWI, BCCR, CCCma, CHMI, CLMcom, CNRM, CRP-GL, CUNI, DHMZ, DMI, ENEA, GERICS, HMS, IPS, JCM, JCM-CM2R3, JCM-CM2R31, JCM-CM2R31A, JCM-CM2R31B, JCM-CM2R31C, JCM-CM2R31D, JCM-CM2R31E, JCM-CM2R31F, JCM-CM2R31G, JCM-CM2R31H, JCM-CM2R31I, JCM-CM2R31J, JCM-CM2R31K, JCM-CM2R31L, JCM-CM2R31M, JCM-CM2R31N, JCM-CM2R31O, JCM-CM2R31P, JCM-CM2R31Q, JCM-CM2R31R, JCM-CM2R31S, JCM-CM2R31T, JCM-CM2R31U, JCM-CM2R31V, JCM-CM2R31W, JCM-CM2R31X, JCM-CM2R31Y, JCM-CM2R31Z, JCM-CM2R31AA, JCM-CM2R31AB, JCM-CM2R31AC, JCM-CM2R31AD, JCM-CM2R31AE, JCM-CM2R31AF, JCM-CM2R31AG, JCM-CM2R31AH, JCM-CM2R31AI, JCM-CM2R31AJ, JCM-CM2R31AK, JCM-CM2R31AL, JCM-CM2R31AM, JCM-CM2R31AN, JCM-CM2R31AO, JCM-CM2R31AP, JCM-CM2R31AQ, JCM-CM2R31AR, JCM-CM2R31AS, JCM-CM2R31AT, JCM-CM2R31AU, JCM-CM2R31AV, JCM-CM2R31AW, JCM-CM2R31AX, JCM-CM2R31AY, JCM-CM2R31AZ, JCM-CM2R31BA, JCM-CM2R31BB, JCM-CM2R31BC, JCM-CM2R31BD, JCM-CM2R31BE, JCM-CM2R31BF, JCM-CM2R31BG, JCM-CM2R31BH, JCM-CM2R31BI, JCM-CM2R31BJ, 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JCM-CM2R31ED, JCM-CM2R31EE, JCM-CM2R31EF, JCM-CM2R31EG, JCM-CM2R31EH, JCM-CM2R31EI, JCM-CM2R31EJ, JCM-CM2R31EK, JCM-CM2R31EL, JCM-CM2R31EM, JCM-CM2R31EN, JCM-CM2R31EO, JCM-CM2R31EP, JCM-CM2R31EQ, JCM-CM2R31ER, JCM-CM2R31ES, JCM-CM2R31ET, JCM-CM2R31EU, JCM-CM2R31EV, JCM-CM2R31EW, JCM-CM2R31EX, JCM-CM2R31EY, JCM-CM2R31EZ, JCM-CM2R31FA, JCM-CM2R31FB, JCM-CM2R31FC, JCM-CM2R31FD, JCM-CM2R31FE, JCM-CM2R31FF, JCM-CM2R31FG, JCM-CM2R31FH, JCM-CM2R31FI, JCM-CM2R31FJ, JCM-CM2R31FK, JCM-CM2R31FL, JCM-CM2R31FM, JCM-CM2R31FN, JCM-CM2R31FO, JCM-CM2R31FP, JCM-CM2R31FQ, JCM-CM2R31FR, JCM-CM2R31FS, JCM-CM2R31FT, JCM-CM2R31FU, JCM-CM2R31FV, JCM-CM2R31FW, JCM-CM2R31FX, JCM-CM2R31FY, JCM-CM2R31FZ, JCM-CM2R31GA, JCM-CM2R31GB, JCM-CM2R31GC, JCM-CM2R31GD, JCM-CM2R31GE, JCM-CM2R31GF, JCM-CM2R31GG, JCM-CM2R31GH, JCM-CM2R31GI, JCM-CM2R31GJ, JCM-CM2R31GK, JCM-CM2R31GL, JCM-CM2R31GM, JCM-CM2R31GN, JCM-CM2R31GO, JCM-CM2R31GP, JCM-CM2R31GQ, JCM-CM2R31GR, JCM-CM2R31GS, JCM-CM2R31GT, JCM-CM2R31GU, JCM-CM2R31GV, 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JCM-CM2R31XI, JCM-CM2R31XJ, JCM-CM2R31XK, JCM-CM2R31XL, JCM-CM2R31XM, JCM-CM2R31XN, JCM-CM2R31XO, JCM-CM2R31XP, JCM-CM2R31XQ, JCM-CM2R31XR, JCM-CM2R31XS, JCM-CM2R31XT, JCM-CM2R31XU, JCM-CM2R31XV, JCM-CM2R31XW, JCM-CM2R31XX, JCM-CM2R31XY, JCM-CM2R31XZ, JCM-CM2R31YA, JCM-CM2R31YB, JCM-CM2R31YC, JCM-CM2R31YD, JCM-CM2R31YE, JCM-CM2R31YF, JCM-CM2R31YG, JCM-CM2R31YH, JCM-CM2R31YI, JCM-CM2R31YJ, JCM-CM2R31YK, JCM-CM2R31YL, JCM-CM2R31YM, JCM-CM2R31YN, JCM-CM2R31YO, JCM-CM2R31YP, JCM-CM2R31YQ, JCM-CM2R31YR, JCM-CM2R31YS, JCM-CM2R31YT, JCM-CM2R31YU, JCM-CM2R31YV, JCM-CM2R31YW, JCM-CM2R31YX, JCM-CM2R31YY, JCM-CM2R31YZ, JCM-CM2R31ZA, JCM-CM2R31ZB, JCM-CM2R31ZC, JCM-CM2R31ZD, JCM-CM2R31ZE, JCM-CM2R31ZF, JCM-CM2R31ZG, JCM-CM2R31ZH, JCM-CM2R31ZI, JCM-CM2R31ZJ, JCM-CM2R31ZK, JCM-CM2R31ZL, JCM-CM2R31ZM, JCM-CM2R31ZN, JCM-CM2R31ZO, JCM-CM2R31ZP, JCM-CM2R31ZQ, JCM-CM2R31ZR, JCM-CM2R31ZS, JCM-CM2R31ZT, JCM-CM2R31ZU, JCM-CM2R31ZV, JCM-CM2R31ZW, JCM-CM2R31ZX, JCM-CM2R31ZY, JCM-CM2R31ZZ

maps = las_time_delta_map, domain_description_map, rcm_name_map
```

```
domain_description_map = map(project_id, domain : domain_description)
```

```
cordex | AFR-44 | Africa
cordex | AFR-44i | Africa
cordex | ANT-44 | Antarctica
cordex | ANT-44i | Antarctica
cordex | ARC-44 | The Arctic
cordex | ARC-44i | The Arctic
cordex | AUS-44 | Australasia
cordex | AUS-44i | Australasia
cordex | CAM-44 | Central America
cordex | CAM-44i | Central America
cordex | CAS-44 | Central Asia
cordex | CAS-44i | Central Asia
cordex | EAS-44 | East Asia
cordex | EAS-44i | East Asia
cordex | EUR-11 | High-res. Europe
cordex | EUR-11i | High-res. Europe
cordex | EUR-44 | Europe
cordex | EUR-44i | Europe
cordex | MED-44 | HYMEX Mediterranean
cordex | MED-44i | HYMEX Mediterranean
cordex | MNA-22 | Middle East and North Africa
cordex | MNA-22i | Middle East and North Africa
cordex | MNA-44 | Middle East and North Africa
cordex | MNA-44i | Middle East and North Africa
cordex | NAM-44 | North America
cordex | NAM-44i | North America
cordex | SAM-44 | South America
cordex | SAM-44i | South America
cordex | WAS-44 | West Asia
cordex | WAS-44i | West Asia
```

```
rcm_name_map = map(project, rcm_model : rcm_name)
```

```
cordex | AUTH-LHTEE-WRF321B | WRF321B
cordex | AUTH-Met-WRF331A | WRF331A
cordex | AWI-HIRHAM5 | HIRHAM5
cordex | BCCR-WRF331 | WRF331
cordex | BCCR-WRF331C | WRF331C
cordex | CCCma-CanRCM4 | CanRCM4
cordex | CHMI-ALADIN52 | ALADIN52
cordex | CLMcom-CCLM4-8-17 | CCLM4-8-17
cordex | CNRM-ALADIN52 | ALADIN52
cordex | CNRM-ARPEGE51 | ARPEGE51
cordex | CNRM-ARPEGE52 | ARPEGE52
cordex | CNRM-ALADIN53 | ALADIN53
cordex | CRP-GL-WRF331A | WRF331A
cordex | CUNI-RegCM4-2 | RegCM4-2
cordex | DHMZ-RegCM4-2 | RegCM4-2
cordex | DMI-HIRHAM5 | HIRHAM5
cordex | ENEA-RegCM4-3 | RegCM4-3
cordex | GERICS-REMO2009 | REMO2009
cordex | HMS-ALADIN52 | ALADIN52
cordex | ICTP-RegCM4-3 | RegCM4-3
cordex | IDL-WRF331D | WRF331D
cordex | IPSL-INERIS-WRF331F | WRF331F
cordex | IITM-RegCM4-1 | RegCM4-1
cordex | IITM-RegCM4-4 | RegCM4-4
cordex | KNMI-RACMO21P | RACMO21P
cordex | KNMI-RACMO22E | RACMO22E
cordex | KNMI-RACMO22T | RACMO22T
```

```

cordex | MGO-RRCM          | RRCM
cordex | MIUB-WRF331A         | WRF331A
cordex | MOHC-HadGEM3-RA     | HadGEM3-RA
cordex | MOHC-HadRM3P        | HadRM3P
cordex | MPI-CSC-REMO2009    | REMO2009
cordex | NUIM-WRF331F        | WRF331F
cordex | RMIB-UGent-ALARO-0  | ALARO-0
cordex | SMHI-RCA4           | RCA4
cordex | SMHI-RCA4-SN        | RCA4-SN
cordex | SMHI-RCAO           | RCAO
cordex | SMHI-RCAO-SN        | RCAO-SN
cordex | UCAN-WRF331G        | WRF331G
cordex | UCAN-WRF350I        | WRF350I
cordex | UCLM-PROMES         | PROMES
cordex | UHOH-WRF331H        | WRF331H
cordex | ULg-MAR36           | MAR36
cordex | UQAM-CRCM5          | CRCM5

```

```
las_time_delta_map = map(time_frequency : las_time_delta)
```

```

mon | 1 month
day | 1 day
fx  | fixed
3hr | 3 hours
sem | seasonal mean
6hr | 6 hours

```

```
project_handler_name = basic_builtin
```

```
las_configure = true
```

```
thredds_exclude_variables = a, a_bnds, alev1, alevel, alevhalf, alt40, b, b_bnds, basin, bnds, bounds_lat, bounds_lon, dbz
```

```
variable_locate = ps,ps_
```

```
variable_per_file = true
```

Generate the DRS structure:

```

esgprep drs list --project cordex /path/to/02_EuroCORDEX_INTERIM_044_v20140616/
esgprep drs tree --project cordex /path/to/02_EuroCORDEX_INTERIM_044_v20140616/
esgprep drs todo --project cordex /path/to/02_EuroCORDEX_INTERIM_044_v20140616/
esgprep drs upgrade --project cordex /path/to/02_EuroCORDEX_INTERIM_044_v20140616/

```

Generate the mapfiles:

```
esgprep mapfile --project cordex ./CORDEX/
```

Publish to data and index nodes:

```
esgpublish --service fileservice --map mapfiles/ --project cordex --thredds --publish
```