

Wikiprint Book

Title: CORDEX data publication

Subject: TracMeteo - CORDEXPublication

Version: 12

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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, IPS-44, IPS-44i

institute_options = AUTH-LHTEE, AUTH-Met, AWI, BCCR, CCCma, CHMI, CLMcom, CNRM, CRP-GL, CUNI, DHMZ, DMI, ENEA, GERICS, HMS, IPS, IPS-44i

driving_model_options = CCCma-CanESM2, CSIRO-QCCCE-CSIRO-Mk3-6-0, CNRM-CERFACS-CNRM-CM5, ECMWF-ERAINT, ICHEC-EC-EARTH, IPS-44i

experiment_options =
  cordex | evaluation | Evaluation
  cordex | historical | Historical
  cordex | rcp26      | RCP2.6
  cordex | rcp45      | RCP4.5
  cordex | rcp60      | RCP6.0
  cordex | rcp85      | RCP8.5

ensemble_pattern = r%(digit)si%(digit)sp%(digit)s

rcm_model_options = AUTH-LHTEE-WRF321B, AUTH-Met-WRF331A, AWI-HIRHAM5, BCCR-WRF331, BCCR-WRF331C, CCCma-CanRCM4, CHMI-ALADIN, CNRM-CR3, CNRM-CR3-23, CNRM-CR3-23C, CNRM-CR3-23S, CNRM-CR3-23T, CNRM-CR3-23U, CNRM-CR3-23V, CNRM-CR3-23W, CNRM-CR3-23X, CNRM-CR3-23Y, CNRM-CR3-23Z, CNRM-CR3-23AA, CNRM-CR3-23AB, CNRM-CR3-23AC, CNRM-CR3-23AD, CNRM-CR3-23AE, CNRM-CR3-23AF, CNRM-CR3-23AG, CNRM-CR3-23AH, CNRM-CR3-23AI, CNRM-CR3-23AJ, CNRM-CR3-23AK, CNRM-CR3-23AL, CNRM-CR3-23AM, CNRM-CR3-23AN, CNRM-CR3-23AO, CNRM-CR3-23AP, CNRM-CR3-23AQ, CNRM-CR3-23AR, CNRM-CR3-23AS, CNRM-CR3-23AT, CNRM-CR3-23AU, CNRM-CR3-23AV, CNRM-CR3-23AW, CNRM-CR3-23AX, CNRM-CR3-23AY, CNRM-CR3-23AZ, CNRM-CR3-23BA, CNRM-CR3-23BB, CNRM-CR3-23BC, CNRM-CR3-23BD, CNRM-CR3-23BE, CNRM-CR3-23BF, CNRM-CR3-23BG, CNRM-CR3-23BH, CNRM-CR3-23BI, CNRM-CR3-23BJ, CNRM-CR3-23BK, CNRM-CR3-23BL, CNRM-CR3-23BM, CNRM-CR3-23BN, CNRM-CR3-23BO, CNRM-CR3-23BP, CNRM-CR3-23BQ, CNRM-CR3-23BR, CNRM-CR3-23BS, CNRM-CR3-23BT, CNRM-CR3-23BU, CNRM-CR3-23BV, CNRM-CR3-23BW, CNRM-CR3-23BX, CNRM-CR3-23BY, CNRM-CR3-23BZ, CNRM-CR3-23CA, CNRM-CR3-23CB, CNRM-CR3-23CC, CNRM-CR3-23CD, CNRM-CR3-23CE, CNRM-CR3-23CF, CNRM-CR3-23CG, CNRM-CR3-23CH, CNRM-CR3-23CI, CNRM-CR3-23CJ, CNRM-CR3-23CK, CNRM-CR3-23CL, CNRM-CR3-23CM, CNRM-CR3-23CN, CNRM-CR3-23CO, CNRM-CR3-23CP, CNRM-CR3-23CQ, CNRM-CR3-23CR, CNRM-CR3-23CS, CNRM-CR3-23CT, CNRM-CR3-23CU, CNRM-CR3-23CV, CNRM-CR3-23CW, CNRM-CR3-23CX, CNRM-CR3-23CY, CNRM-CR3-23CZ, CNRM-CR3-23DA, CNRM-CR3-23DB, CNRM-CR3-23DC, CNRM-CR3-23DD, CNRM-CR3-23DE, CNRM-CR3-23DF, CNRM-CR3-23DG, CNRM-CR3-23DH, CNRM-CR3-23DI, CNRM-CR3-23DJ, CNRM-CR3-23DK, CNRM-CR3-23DL, CNRM-CR3-23DM, CNRM-CR3-23DN, CNRM-CR3-23DO, CNRM-CR3-23DP, CNRM-CR3-23DQ, CNRM-CR3-23DR, CNRM-CR3-23DS, CNRM-CR3-23DT, CNRM-CR3-23DU, CNRM-CR3-23DV, CNRM-CR3-23DW, CNRM-CR3-23DX, CNRM-CR3-23DY, CNRM-CR3-23DZ, CNRM-CR3-23EA, CNRM-CR3-23EB, CNRM-CR3-23EC, CNRM-CR3-23ED, CNRM-CR3-23EE, CNRM-CR3-23EF, CNRM-CR3-23EG, CNRM-CR3-23EH, CNRM-CR3-23EI, CNRM-CR3-23EJ, 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CNRM-CR3-23RE, CNRM-CR3-23RF, CNRM-CR3-23RG, CNRM-CR3-23RH, CNRM-CR3-23RI, CNRM-CR3-23RJ, CNRM-CR3-23RK, CNRM-CR3-23RL, CNRM-CR3-23RM, CNRM-CR3-23RN, CNRM-CR3-23RO, CNRM-CR3-23RP, CNRM-CR3-23RQ, CNRM-CR3-23RR, CNRM-CR3-23RS, CNRM-CR3-23RT, CNRM-CR3-23RU, CNRM-CR3-23RV, CNRM-CR3-23RW, CNRM-CR3-23RX, CNRM-CR3-23RY, CNRM-CR3-23RZ, CNRM-CR3-23SA, CNRM-CR3-23SB, CNRM-CR3-23SC, CNRM-CR3-23SD, CNRM-CR3-23SE, CNRM-CR3-23SF, CNRM-CR3-23SG, CNRM-CR3-23SH, CNRM-CR3-23SI, CNRM-CR3-23SJ, CNRM-CR3-23SK, CNRM-CR3-23SL, CNRM-CR3-23SM, CNRM-CR3-23SN, CNRM-CR3-23SO, CNRM-CR3-23SP, CNRM-CR3-23SQ, CNRM-CR3-23SR, CNRM-CR3-23SS, CNRM-CR3-23ST, CNRM-CR3-23SU, CNRM-CR3-23SV, CNRM-CR3-23SW, CNRM-CR3-23SX, CNRM-CR3-23SY, CNRM-CR3-23SZ, CNRM-CR3-23TA, CNRM-CR3-23TB, CNRM-CR3-23TC, CNRM-CR3-23TD, CNRM-CR3-23TE, CNRM-CR3-23TF, CNRM-CR3-23TG, CNRM-CR3-23TH, CNRM-CR3-23TI, CNRM-CR3-23TJ, CNRM-CR3-23TK, CNRM-CR3-23TL, CNRM-CR3-23TM, CNRM-CR3-23TN, CNRM-CR3-23TO, CNRM-CR3-23TP, CNRM-CR3-23TQ, CNRM-CR3-23TR, CNRM-CR3-23TS, CNRM-CR3-23TT, CNRM-CR3-23TU, CNRM-CR3-23TV, CNRM-CR3-23TW, CNRM-CR3-23TX, CNRM-CR3-23TY, CNRM-CR3-23TZ, CNRM-CR3-23UA, CNRM-CR3-23UB, CNRM-CR3-23UC, CNRM-CR3-23UD, CNRM-CR3-23UE, CNRM-CR3-23UF, CNRM-CR3-23UG, CNRM-CR3-23UH, CNRM-CR3-23UI, CNRM-CR3-23UJ, CNRM-CR3-23UK, CNRM-CR3-23UL, CNRM-CR3-23UM, CNRM-CR3-23UN, CNRM-CR3-23UO, CNRM-CR3-23UP, CNRM-CR3-23UQ, CNRM-CR3-23UR, CNRM-CR3-23US, CNRM-CR3-23UT, CNRM-CR3-23UU, CNRM-CR3-23UV, CNRM-CR3-23UW, CNRM-CR3-23UX, CNRM-CR3-23UY, CNRM-CR3-23UZ, CNRM-CR3-23VA, CNRM-CR3-23VB, CNRM-CR3-23VC, CNRM-CR3-23VD, CNRM-CR3-23VE, CNRM-CR3-23VF, CNRM-CR3-23VG, CNRM-CR3-23VH, CNRM-CR3-23VI, CNRM-CR3-23VJ, CNRM-CR3-23VK, CNRM-CR3-23VL, CNRM-CR3-23VM, CNRM-CR3-23VN, CNRM-CR3-23VO, CNRM-CR3-23VP, CNRM-CR3-23VQ, CNRM-CR3-23VR, CNRM-CR3-23VS, CNRM-CR3-23VT, CNRM-CR3-23VU, CNRM-CR3-23VV, CNRM-CR3-23VW, CNRM-CR3-23VX, CNRM-CR3-23VY, CNRM-CR3-23VZ, CNRM-CR3-23WA, CNRM-CR3-23WB, CNRM-CR3-23WC, CNRM-CR3-23WD, CNRM-CR3-23WE, CNRM-CR3-23WF, CNRM-CR3-23WG, CNRM-CR3-23WH, CNRM-CR3-23WI, CNRM-CR3-23WJ, CNRM-CR3-23WK, CNRM-CR3-23WL, CNRM-CR3-23WM, CNRM-CR3-23WN, CNRM-CR3-23WO, CNRM-CR3-23WP, CNRM-CR3-23WQ, CNRM-CR3-23WR, CNRM-CR3-23WS, CNRM-CR3-23WT, CNRM-CR3-23WU, CNRM-CR3-23WV, CNRM-CR3-23WW, CNRM-CR3-23WX, CNRM-CR3-23WY, CNRM-CR3-23WZ, CNRM-CR3-23XA, CNRM-CR3-23XB, CNRM-CR3-23XC, CNRM-CR3-23XD, CNRM-CR3-23XE, CNRM-CR3-23XF, CNRM-CR3-23XG, CNRM-CR3-23XH, CNRM-CR3-23XI, CNRM-CR3-23XJ, CNRM-CR3-23XK, CNRM-CR3-23XL, CNRM-CR3-23XM, CNRM-CR3-23XN, CNRM-CR3-23XO, CNRM-CR3-23XP, CNRM-CR3-23XQ, CNRM-CR3-23XR, CNRM-CR3-23XS, CNRM-CR3-23XT, CNRM-CR3-23XU, CNRM-CR3-23XV, CNRM-CR3-23XW, CNRM-CR3-23XX, CNRM-CR3-23XY, CNRM-CR3-23XZ, CNRM-CR3-23YA, CNRM-CR3-23YB, CNRM-CR3-23YC, CNRM-CR3-23YD, CNRM-CR3-23YE, CNRM-CR3-23YF, CNRM-CR3-23YG, CNRM-CR3-23YH, CNRM-CR3-23YI, CNRM-CR3-23YJ, CNRM-CR3-23YK, CNRM-CR3-23YL, CNRM-CR3-23YM, CNRM-CR3-23YN, CNRM-CR3-23YO, CNRM-CR3-23YP, CNRM-CR3-23YQ, CNRM-CR3-23YR, CNRM-CR3-23YS, CNRM-CR3-23YT, CNRM-CR3-23YU, CNRM-CR3-23YV, CNRM-CR3-23YW, CNRM-CR3-23YX, CNRM-CR3-23YY, CNRM-CR3-23YZ, CNRM-CR3-23ZA, CNRM-CR3-23ZB, CNRM-CR3-23ZC, CNRM-CR3-23ZD, CNRM-CR3-23ZE, CNRM-CR3-23ZF, CNRM-CR3-23ZG, CNRM-CR3-23ZH, CNRM-CR3-23ZI, CNRM-CR3-23ZJ, CNRM-CR3-23ZK, CNRM-CR3-23ZL, CNRM-CR3-23ZM, CNRM-CR3-23ZN, CNRM-CR3-23ZO, CNRM-CR3-23ZP, CNRM-CR3-23ZQ, CNRM-CR3-23ZR, CNRM-CR3-23ZS, CNRM-CR3-23ZT, CNRM-CR3-23ZU, CNRM-CR3-23ZV, CNRM-CR3-23ZW, CNRM-CR3-23ZX, CNRM-CR3-23ZY, CNRM-CR3-23ZZ

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
```