

CORDEX: requested variables

21 Feb 2014 Version 3.1

| output variable name | units | Tier 2 | | Tier 1 | | Core | | | | fx | long_name | standard_name | direction of positive fluxes ^a | realm (not required, however, if included should have the value as in CMIP5) | cell-method: area (optional) ^b |
|----------------------|------------|-------------|----|-------------|----|-------------|-----|-------------|-----|----|---|---|---|---|---|
| | | frq [1/day] | ag | frq [1/day] | ag | frq [1/mon] | ag | frq [1/sem] | ag | | | | | | |
| tas | K | 8 | i | 1 | 8 | 1 | m*8 | 1 | s*8 | | Near-Surface Air Temperature | air_temperature | | atmos | |
| tasmax | K | | | 1 | | 1 | m | 1 | s | | Daily Maximum Near-Surface Air Temperature | air_temperature | | atmos | |
| tasmin | K | | | 1 | | 1 | m | 1 | s | | Daily Minimum Near-Surface Air Temperature | air_temperature | | atmos | |
| pr | kg m-2 s-1 | 8 | a | 1 | | 1 | | 1 | | | Precipitation | precipitation_flux | | atmos | |
| ps | Pa | 8 | i | 1 | 8 | | | | | | Surface Air Pressure | surface_air_pressure | | atmos | |
| psl | Pa | 8 | i | 1 | 8 | 1 | m*8 | 1 | s*8 | | Sea Level Pressure | air_pressure_at_sea_level | | atmos | |
| huss | 1 | 8 | i | 1 | 8 | 1 | m*8 | 1 | s*8 | | Near-Surface Specific Humidity | specific_humidity | | atmos | |
| hurs | % | 8 | i | 1 | 8 | 1 | m*8 | 1 | s*8 | | Near-Surface Relative Humidity | relative_humidity | | atmos | |
| sfcWind | m s-1 | 8 | i | 1 | 8 | 1 | m*8 | 1 | s*8 | | Near-Surface Wind Speed | wind_speed | | atmos | |
| sfcWindmax | m s-1 | | | 1 | | 1 | m | 1 | s | | Daily Maximum Near-Surface Wind Speed | wind_speed | | atmos | |
| clt | % | 8 | a | 1 | | 1 | | 1 | | | Total Cloud Fraction | cloud_area_fraction | | atmos | |
| sund | s | 8 | a | 1 | | 1 | | 1 | | | Duration of Sunshine | duration_of_sunshine | | atmos | |
| rsds | W m-2 | 8 | a | 1 | | 1 | | 1 | | | Surface Downwelling Shortwave Radiation | surface_downwelling_shortwave_flux_in_air | down | atmos | |
| rlds | W m-2 | 8 | a | 1 | | 1 | | 1 | | | Surface Downwelling Longwave Radiation | surface_downwelling_longwave_flux_in_air | down | atmos | |
| hfls | W m-2 | 8 | a | 1 | | 1 | | 1 | | | Surface Upward Latent Heat Flux | surface_upward_latent_heat_flux | up | atmos | |
| hfss | W m-2 | 8 | a | 1 | | 1 | | 1 | | | Surface Upward Sensible Heat Flux | surface_upward_sensible_heat_flux | up | atmos | |
| rsus | W m-2 | 8 | a | 1 | | 1 | | 1 | | | Surface Upwelling Shortwave Radiation | surface_upwelling_shortwave_flux_in_air | up | atmos | |
| rlus | W m-2 | 8 | a | 1 | | 1 | | 1 | | | Surface Upwelling Longwave Radiation | surface_upwelling_longwave_flux_in_air | up | atmos | |
| evspsbl | kg m-2 s-1 | 4 | a | 1 | | 1 | | 1 | | | Evaporation | water_evaporation_flux | | atmos | |
| evspsblpot | kg m-2 s-1 | 4 | a | 1 | | 1 | | 1 | | | Potential Evapotranspiration | water_potential_evaporation_flux | | atmos | |
| mrfs0 | kg m-2 | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Soil Frozen Water Content | soil_frozen_water_content | | land landice | mean where land |
| mrros | kg m-2 s-1 | 4 | a | 1 | | 1 | | 1 | | | Surface Runoff | surface_runoff_flux | | land | mean where land |
| mrro | kg m-2 s-1 | 4 | a | 1 | | 1 | | 1 | | | Total Runoff | runoff_flux | | land | mean where land |
| mrso | kg m-2 | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Total Soil Moisture Content | soil_moisture_content | | land | mean where land |
| snw | kg m-2 | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Surface Snow Amount | surface_snow_amount | | landice land | mean where land |
| snm | kg m-2 s-1 | 4 | a | 1 | 4 | 1 | | 1 | | | Surface Snow Melt | surface_snow_melt_flux | | landice land | mean where land |
| prhmax | kg m-2 s-1 | | | 1 | | | | | | | Daily Maximum Hourly Precipitation Rate | precipitation_flux | | atmos | |
| prc | kg m-2 s-1 | 8 | a | 1 | | | | | | | Convective Precipitation | convective_precipitation_flux | | atmos | |
| rlut | W m-2 | 4 | a | 1 | | 1 | | 1 | | | TOA Outgoing Longwave Radiation | toa_outgoing_longwave_flux | up | atmos | |
| rsdt | W m-2 | 4 | a | 1 | | 1 | | 1 | | | TOA Incident Shortwave Radiation | toa_incoming_shortwave_flux | down | atmos | |
| rsut | W m-2 | 4 | a | 1 | | 1 | | 1 | | | TOA Outgoing Shortwave Radiation | toa_outgoing_shortwave_flux | up | atmos | |
| uas | m s-1 | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Eastward Near-Surface Wind | eastward_wind | | atmos | |
| vas | m s-1 | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Northward Near-Surface Wind | northward_wind | | atmos | |
| wsgsmax | m s-1 | | | 1 | | | | | | | Daily Maximum Near-Surface Wind Speed of Gust | wind_speed_of_gust | | atmos | |
| tauv | Pa | 4 | a | 1 | | | | | | | Surface Downward Eastward Wind Stress | surface_downward_eastward_stress | down | atmos | |
| tauv | Pa | 4 | a | 1 | | | | | | | Surface Downward Northward Wind Stress | surface_downward_northward_stress | down | atmos | |
| ts | K | 4 | i | 1 | 4 | | | | | | Surface Temperature | surface_temperature | | atmos | |
| zmla | m | 4 | i | 1 | 4 | | | | | | Height of Boundary Layer | atmosphere_boundary_layer_thickness | | atmos | |
| prw | kg m-2 | 4 | i | 1 | 4 | | | | | | Water Vapor Path | atmosphere_water_vapor_content | | atmos | |
| clwvi | kg m-2 | 4 | i | 1 | 4 | | | | | | Condensed Water Path | atmosphere_cloud_condensed_water_content | | atmos | |
| clivi | kg m-2 | 4 | i | 1 | 4 | | | | | | Ice Water Path | atmosphere_cloud_ice_content | | atmos | |
| ua850 | m s-1 | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Eastward Wind | eastward_wind | | atmos | |
| va850 | m s-1 | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Northward Wind | northward_wind | | atmos | |
| ta850 | K | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Air Temperature | air_temperature | | atmos | |
| hus850 | 1 | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Specific Humidity | specific_humidity | | atmos | |
| ua500 | m s-1 | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Eastward Wind | eastward_wind | | atmos | |
| va500 | m s-1 | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Northward Wind | northward_wind | | atmos | |
| zg500 | m | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Geopotential Height | geopotential_height | | atmos | |
| ta500 | K | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Air Temperature | air_temperature | | atmos | |
| ua200 | m s-1 | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Eastward Wind | eastward_wind | | atmos | |
| va200 | m s-1 | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Northward Wind | northward_wind | | atmos | |
| ta200 | K | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Air Temperature | air_temperature | | atmos | |
| zg200 | m | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Geopotential Height | geopotential_height | | atmos | |
| clh | % | 4 | a | 1 | | | | | | | High Level Cloud Fraction | cloud_area_fraction_in_atmosphere_layer | | atmos | |
| clm | % | 4 | a | 1 | | | | | | | Mid Level Cloud Fraction | cloud_area_fraction_in_atmosphere_layer | | atmos | |
| cll | % | 4 | a | 1 | | | | | | | Low Level Cloud Fraction | cloud_area_fraction_in_atmosphere_layer | | atmos | |
| snc | % | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Snow Area Fraction | surface_snow_area_fraction | | landice land | |
| snd | m | 4 | i | 1 | 4 | 1 | m*4 | 1 | s*4 | | Snow Depth | surface_snow_thickness | | landice land | mean where land |
| sic | % | | | 1 | | 1 | m | 1 | s | | Sea Ice Area Fraction | sea_ice_area_fraction | | seaice ocean | |
| prsn | kg m-2 s-1 | | | 1 | | | | | | | Snowfall Flux | snowfall_flux | | atmos | |
| areacella | m2 | | | | | | | | 0 | | Atmosphere Grid-Cell Area | cell_area | | atmos land | |
| orog | m | | | | | | | | 0 | | Surface Altitude | surface_altitude | | atmos | |
| sftlf | % | | | | | | | | 0 | | Land Area Fraction | land_area_fraction | | atmos | |
| sftgfc | % | | | | | | | | 0 | | Fraction of Grid Cell Covered with Glacier | land_ice_area_fraction | | land | |
| mrsofc | kg m-2 | | | | | | | | 0 | | Capacity of Soil to Store Water | soil_moisture_content_at_field_capacity | | land | |
| rootd | m | | | | | | | | 0 | | Maximum Root Depth | root_depth | | land | |

^a The column specifies the direction of fluxes (redundantly with the standard.name); if given as a NetCDF attribute it must have the value as given here

^b If given as a NetCDF attribute it must have the value as given here

green: if available
 red: late correction

frq: frequency [samples per day]
 ag: aggregation
 a: averaged over output interval (in model)
 i: instantaneous
 number: minimum samples per day if not averaged over interval

m: number of days in month
 s: number of days in season

3-hourly output (3hr)

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| output variable name | cell_methods |
|-----------------------------|---------------------|
| tas | time: point |
| pr | time: mean |
| ps | time: point |
| psl | time: point |
| huss | time: point |
| hurs | time: point |
| sfcWind | time: point |
| clt | time: mean |
| sund | time: sum |
| rsds | time: mean |
| rlds | time: mean |
| hfls | time: mean |
| hfss | time: mean |
| rsus | time: mean |
| rlus | time: mean |
| prc | time: mean |

6-hourly output (6hr)

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| output variable name | cell_methods | cell_methods (2nd option) |
|-----------------------------|---------------------|-----------------------------------|
| evspsbl | time: mean | time: mean |
| evspsblpot | time: mean | time: mean |
| mrfs0 | time: point | time: point area: mean where land |
| mrros | time: mean | time: mean area: mean where land |
| mrro | time: mean | time: mean area: mean where land |
| mrso | time: point | time: point area: mean where land |
| snw | time: point | time: point area: mean where land |
| snm | time: mean | time: mean area: mean where land |
| rlut | time: mean | time: mean |
| rsdt | time: mean | time: mean |
| rsut | time: mean | time: mean |
| uas | time: point | time: point |
| vas | time: point | time: point |
| tauu | time: mean | time: mean |
| tauv | time: mean | time: mean |
| ts | time: point | time: point |
| zmla | time: point | time: point |
| prw | time: point | time: point |
| clwvi | time: point | time: point |
| clivi | time: point | time: point |
| ua850 | time: point | time: point |
| va850 | time: point | time: point |
| ta850 | time: point | time: point |
| hus850 | time: point | time: point |
| ua500 | time: point | time: point |
| va500 | time: point | time: point |
| zg500 | time: point | time: point |
| ta500 | time: point | time: point |
| ua200 | time: point | time: point |
| va200 | time: point | time: point |
| ta200 | time: point | time: point |
| zg200 | time: point | time: point |
| clh | time: mean | time: mean |
| clm | time: mean | time: mean |
| cil | time: mean | time: mean |
| snc | time: point | time: point |
| snd | time: point | time: point area: mean where land |

daily output (day)

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| output variable name | cell_methods | cell_methods (2nd option) |
|----------------------|---------------|----------------------------------|
| tas | time: mean | time: mean |
| tasmax | time: maximum | time: maximum |
| tasmin | time: minimum | time: minimum |
| pr | time: mean | time: mean |
| ps | time: mean | time: mean |
| psl | time: mean | time: mean |
| huss | time: mean | time: mean |
| hurs | time: mean | time: mean |
| sfcWind | time: mean | time: mean |
| sfcWindmax | time: maximum | time: maximum |
| clt | time: mean | time: mean |
| sund | time: sum | time: sum |
| rsds | time: mean | time: mean |
| rlds | time: mean | time: mean |
| hfis | time: mean | time: mean |
| hfss | time: mean | time: mean |
| rsus | time: mean | time: mean |
| rlus | time: mean | time: mean |
| evspsbl | time: mean | time: mean |
| evspsblpot | time: mean | time: mean |
| mrfso | time: mean | time: mean area: mean where land |
| mrros | time: mean | time: mean area: mean where land |
| mrro | time: mean | time: mean area: mean where land |
| mrso | time: mean | time: mean area: mean where land |
| snw | time: mean | time: mean area: mean where land |
| snm | time: mean | time: mean area: mean where land |
| prhmax | time: maximum | time: maximum |
| prc | time: mean | time: mean |
| rlut | time: mean | time: mean |
| rsdt | time: mean | time: mean |
| rsut | time: mean | time: mean |
| uas | time: mean | time: mean |
| vas | time: mean | time: mean |
| wsgsmax | time: maximum | time: maximum |
| tauu | time: mean | time: mean |
| tauv | time: mean | time: mean |
| ts | time: mean | time: mean |
| zmla | time: mean | time: mean |
| prw | time: mean | time: mean |
| clwvi | time: mean | time: mean |
| clivi | time: mean | time: mean |
| ua850 | time: mean | time: mean |
| va850 | time: mean | time: mean |
| ta850 | time: mean | time: mean |
| hus850 | time: mean | time: mean |
| ua500 | time: mean | time: mean |
| va500 | time: mean | time: mean |
| zg500 | time: mean | time: mean |
| ta500 | time: mean | time: mean |
| ua200 | time: mean | time: mean |
| va200 | time: mean | time: mean |
| ta200 | time: mean | time: mean |
| zg200 | time: mean | time: mean |
| clh | time: mean | time: mean |
| clm | time: mean | time: mean |
| cll | time: mean | time: mean |
| snc | time: mean | time: mean |
| snd | time: mean | time: mean area: mean where land |
| sic | time: mean | time: mean |
| prsn | time: mean | time: mean |

monthly output (mon)

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| output variable name | cell_methods | cell_methods (2nd option) |
|----------------------|--|--|
| tas | time: mean | time: mean |
| tasmax | time: maximum within days time: mean over days | time: maximum within days time: mean over days |
| tasmin | time: minimum within days time: mean over days | time: minimum within days time: mean over days |
| pr | time: mean | time: mean |
| psl | time: mean | time: mean |
| huss | time: mean | time: mean |
| hurs | time: mean | time: mean |
| sfcWind | time: mean | time: mean |
| sfcWindmax | time: maximum within days time: mean over days | time: maximum within days time: mean over days |
| clt | time: mean | time: mean |
| sund | time: sum within days time: mean over days | time: sum within days time: mean over days |
| rsds | time: mean | time: mean |
| rlds | time: mean | time: mean |
| hfls | time: mean | time: mean |
| hfss | time: mean | time: mean |
| rsus | time: mean | time: mean |
| rlus | time: mean | time: mean |
| evspsbl | time: mean | time: mean |
| mrfso | time: mean | time: mean area: mean where land |
| mrros | time: mean | time: mean area: mean where land |
| mrro | time: mean | time: mean area: mean where land |
| mrso | time: mean | time: mean area: mean where land |
| snw | time: mean | time: mean area: mean where land |
| snm | time: mean | time: mean area: mean where land |
| rlut | time: mean | time: mean |
| rsdt | time: mean | time: mean |
| rsut | time: mean | time: mean |
| uas | time: mean | time: mean |
| vas | time: mean | time: mean |
| ua850 | time: mean | time: mean |
| va850 | time: mean | time: mean |
| ta850 | time: mean | time: mean |
| hus850 | time: mean | time: mean |
| ua500 | time: mean | time: mean |
| va500 | time: mean | time: mean |
| zg500 | time: mean | time: mean |
| ta500 | time: mean | time: mean |
| ua200 | time: mean | time: mean |
| va200 | time: mean | time: mean |
| ta200 | time: mean | time: mean |
| zg200 | time: mean | time: mean |
| snc | time: mean | time: mean |
| snd | time: mean | time: mean area: mean where land |
| sic | time: mean | time: mean |

seasonal output (sem)

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| output variable name | cell_methods | cell_methods (2nd option) |
|----------------------|--|--|
| tas | time: mean | time: mean |
| tasmax | time: maximum within days time: mean over days | time: maximum within days time: mean over days |
| tasmin | time: minimum within days time: mean over days | time: minimum within days time: mean over days |
| pr | time: mean | time: mean |
| psi | time: mean | time: mean |
| huss | time: mean | time: mean |
| hurs | time: mean | time: mean |
| sfcWind | time: mean | time: mean |
| sfcWindmax | time: maximum within days time: mean over days | time: maximum within days time: mean over days |
| clt | time: mean | time: mean |
| sund | time: sum within days time: mean over days | time: sum within days time: mean over days |
| rsds | time: mean | time: mean |
| rlds | time: mean | time: mean |
| hfls | time: mean | time: mean |
| hfss | time: mean | time: mean |
| rsus | time: mean | time: mean |
| rlus | time: mean | time: mean |
| evspsbl | time: mean | time: mean |
| mrfso | time: mean | time: mean area: mean where land |
| mrros | time: mean | time: mean area: mean where land |
| mrro | time: mean | time: mean area: mean where land |
| mrso | time: mean | time: mean area: mean where land |
| snw | time: mean | time: mean area: mean where land |
| snm | time: mean | time: mean area: mean where land |
| rlut | time: mean | time: mean |
| rsdt | time: mean | time: mean |
| rsut | time: mean | time: mean |
| uas | time: mean | time: mean |
| vas | time: mean | time: mean |
| ua850 | time: mean | time: mean |
| va850 | time: mean | time: mean |
| ta850 | time: mean | time: mean |
| hus850 | time: mean | time: mean |
| ua500 | time: mean | time: mean |
| va500 | time: mean | time: mean |
| zg500 | time: mean | time: mean |
| ta500 | time: mean | time: mean |
| ua200 | time: mean | time: mean |
| va200 | time: mean | time: mean |
| ta200 | time: mean | time: mean |
| zg200 | time: mean | time: mean |
| snc | time: mean | time: mean |
| snd | time: mean | time: mean area: mean where land |
| sic | time: mean | time: mean |

time invariant output (fx)

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| output variable name |
|----------------------|
| areacella |
| orog |
| sftlf |
| sftgif |
| mrsofc |
| rootd |
| |
| |
| |

Section A: NetCDF global attributes

| CORDEX name as in ADD ¹ | CMIP5 ² name | mandatory or optional CORDEX/CMIP5 | CV or free text CORDEX/CMIP5 | comment |
|------------------------------------|-------------------------|------------------------------------|---|--|
| institute_id | institute_id | mandatory/mandatory | CV/CV | |
| institution | institution | optional/mandatory | free text/free text | |
| model_id | model_id | mandatory/mandatory | CV/CV | CORDEX starts with <institute_id>- |
| experiment_id | experiment_id | mandatory/mandatory | CV/CV | same CV as CMIP5 with "evaluation" in addition |
| experiment | experiment | optional/mandatory | free text/CV | long version of "experiment_id" |
| contact | contact | mandatory/mandatory | free text/free text | |
| product | product | mandatory/mandatory | CV/CV | single value ("output") |
| Conventions | Conventions | optional/mandatory | CV/CV | later than CF1.4 if present / single value ("CF-1.4") |
| creation_date | creation_date | mandatory/mandatory | YYYY-MM-DDTHH:MM:SSZ | format according to UNIDATA conventions (same in CMIP5 & CORDEX) |
| frequency | frequency | mandatory/mandatory | CV/CV | same CV as CMIP5 with "sem" in addition; 3hr highest freq. in CORDEX; no "yr" |
| driving_model_id | | mandatory/ | <CMIP5 institute_id>- <member in CMIP5 CV list of model_id > | starts with <CMIP5 institute_id>- |
| driving_model_ensemble_member | | mandatory/ | CMIP5 CV (e.g. "r1i1p1") | |
| driving_experiment_name | | mandatory/ | "evaluation" or <member in CMIP5 CV list of experiment_id > | |
| driving_experiment | | optional/mandatory | "<driving_model_id>," <driving_experiment_name>," <driving_model_ensemble_members>" | members of the CMIP5 list of forcing agents are not necessarily forcing agents of RCM (besides implicitly in driving_experiment) |
| rcm_version_ID | | mandatory/ | <free text string>; valid characters only | indicates model mods during the project (e.g.parameterizations, small upgrades) |
| project_id | project_id | mandatory/mandatory | CV | single value |
| CORDEX_domain | | mandatory/ | CV (e.g. "AFR-44", "AFR-44i") | includes resolution acronym |
| references | references | optional/optional | free text/free text | typically should refer to model formulation (i.e. wrong example in ADD) not explained |
| tracking_id | same | optional/mandatory | generated | not required or explained in ADD; it is, however, strongly recommended to include it as prescribed CMIP5. |
| comment | same | optional/optional | free text/free text | not in the ADD example |
| | modeling_realm | /mandatory | /CV | CORDEX variables are all "atmos" or "land"; there is no specification of ocean, sea ice, etc. specification; not adopted by CORDEX |
| | table_id | /mandatory | /CV | not adopted by CORDEX; |
| | source | /mandatory | /free text | MIP tables exist named according to frequencies |
| | realisation | /mandatory | /integer | not adopted by CORDEX |
| | initialization | /mandatory | /integer | the CMIP5 concept of ensemble members is not adopted by CORDEX |
| | parent_experiment_rip | /mandatory | /CV | the CMIP5 concept of ensemble members is not adopted by CORDEX |
| | parent_experiment_id | /mandatory | /CV | the CMIP5 concept of parent experiments is not adopted by CORDEX; the driving_experiment_id is conceptually different |

Section B: other CORDEX attributes

| CORDEX as in ADD ¹ | CMIP5 name | mandatory or optional CORDEX/CMIP5 | CV / free text | comment |
|-------------------------------|------------|---|-----------------------------------|--|
| time reference point | baseline | mandatory/mandatory | CV/CV ("1949-12-01T00:00:00Z") | single value in CORDEX; |
| calendar | calendar | mandatory/mandatory | CV - CF conventions | oth formatted according to UNIDATA conventions |
| grid attributes | | mandatory/mandatory according to CF conventions | CV - CF conventions | as in driving model |

Section C: CORDEX DRS elements and corresponding attributes (in order of appearance in the file name)

| CORDEX DRS element ¹ | mandatory or not | NetCDF attribute |
|---------------------------------|-------------------------------|-------------------------------|
| Institution | | institute_id |
| VariableName | mandatory | see ADD tables |
| Domain | mandatory | CORDEX_domain |
| GCMModelName | mandatory | driving_model_id |
| CMIP5ExperimentName | mandatory | driving_experiment_name |
| CMIP5EnsembleMember | mandatory | driving_model_ensemble_member |
| RCMModelName | mandatory | model_id |
| RCMVersionID | mandatory | rcm_version_id |
| Frequency | mandatory | frequency |
| StartTime-EndTime | not allowed if <frequency>=fx | N/A |

¹ see Christensen, Gutowski, Nikulin, and Legutke; 2013. CORDEX Archive Design (http://cordex.dmi.dk/joomla/images/CORDEX/cordex_archive_specifications.pdf)

² Taylor, K., and C. Doutriaux, 2011. "CMIP5 Model Output Requirements: File Contents and Format, Data Structure and Meta Data" (http://cmip-pcmdi.llnl.gov/cmip5/output_req.html#metadata)

| NetCDF attribute | DRS element | comment | # CV values | | | | | | | | | | | | | |
|-------------------------------|---------------------|---------------------------------------|-------------|---|--------|--|-------------|-------------|-------------|------|-----|-----|-----|-----|-----|-----|
| N/A | VariableName | | ref | < | | | | | | | | | | | | |
| institute_id | Institution | | ref | see http://cordex.dmi.dk/joomla/images/CORDEX/RCMModelName.txt | | | | | | | | | | | | |
| model_id | RCMModelName | | ref | see http://cordex.dmi.dk/joomla/images/CORDEX/RCMModelName.txt | | | | | | | | | | | | |
| experiment_id | CMIP5ExperimentName | any CMIP5 experiment_id is acceptable | 7 | evaluation | rcp45 | rcp85 | decadal1980 | decadal1990 | decadal2005 | amip | | | | | | |
| product | | | 1 | output | | | | | | | | | | | | |
| Conventions | | | 3 | CF-1.4 | CF-1.5 | CF-1.6 | | | | | | | | | | |
| frequency | Frequency | | 6 | sem | mon | day | 6hr | 3hr | fx | | | | | | | |
| driving_model_id | GCMMModelName | | rule | <CMIP5-institute_id>-<CMIP5-model_id> from the CMIP5 CV (see http://cordex.dmi.dk/joomla/images/CORDEX/GCMMModelName.txt) | | | | | | | | | | | | |
| driving_model_ensemble_member | CMIP5EnsembleMember | | rule | rLiMpN, L,M,N=1,2,3, ... or L=M=N=0 for time invariant values | | | | | | | | | | | | |
| driving_experiment_name | | any CMIP5 experiment_id + reanalyses | 2+ | ERAINT | ERA40 | <CMIP5-experiment_id> from CMIP5 CV or values in fields F6 to K6 | | | | | | | | | | |
| rcm_version_ID | RCMVersionID | | rule | any string built from valid CORDEX element characters (a-z, A-Z, 0-9, '-') | | | | | | | | | | | | |
| project_id | Project | | 1 | CORDEX | | | | | | | | | | | | |
| region_id | | | 13 | SAM | CAM | NAM | EUR | AFR | WAS | EAS | CAS | AUS | ANT | AEC | MED | MNA |
| resolution_flag | | | 5 | 44 | 22 | 11 | 055 | 0275 | | | | | | | | |
| CORDEX_domain | Domain | | rule | <region_id>-<resolution_flag> as in http://cordex.dmi.dk/joomla/images/CORDEX/cordex_archive_specifications.pdf (Table) | | | | | | | | | | | | |
| N/A | StartTime-EndTime | | rule | format: YYYY[MM[DD[HH]]]-YYYY[MM[DD[HH]]] | | | | | | | | | | | | |