

CDO Reference Card

Climate Data Operators

Version 1.3.0

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Uwe Schulzweida

Max-Planck-Institute for Meteorology

http://www.mpimet.mpg.de/cdo

Syntax

| | | | | | |
|-----|-----------|-----------|--------------|--------------|---|
| cdo | [Options] | Operator1 | [−Operator2 | [−OperatorN |] |
|-----|-----------|-----------|--------------|--------------|---|

Options

| | |
|--------------|--|
| -a | Convert from a relative to an absolute time axis |
| -b <nbits> | Set the number of bits for output precision (32/64 for nc,nc2,nc4,srv,ext,ieg; 1 - 32 for grb) |
| -f <format> | Output file format (grb,nc,nc2,nc4,srv,ext,ieg) |
| -g <grid> | Grid name or file Available grids: t<RES>grid, r<NX>x<NY> |
| -h | Help information for the operators |
| -m <missval> | Set the default missing value (default: -9e+33) |
| -R | Convert GRIB data from reduced to regular grid |
| -r | Convert from an absolute to a relative time axis |
| -s | Silent mode |
| -t <table> | Set the parameter table name or file Predefined tables: echam4 echam5 mpiom1 |
| -V | Print the version number |
| -v | Print extra details for some operators |
| -z szip | Compress GRIB records with szip |

Operators

Information

| | |
|-------------|---|
| info | Dataset information listed by code number |
| infov | Dataset information listed by variable name |
| map | Dataset information and simple map |
| | Syntax <operator> ifiles |
| sinfo | Short dataset information listed by code number |
| sinfov | Short dataset information listed by variable name |
| | Syntax <operator> ifiles |
| diff | Compare two datasets listed by code number |
| diffv | Compare two datasets listed by variable name |
| | Syntax <operator> ifile1 ifile2 |
| npar | Number of parameters |
| nlevel | Number of levels |
| nyear | Number of years |
| nmon | Number of months |
| ndate | Number of dates |
| ntime | Number of time steps |
| | Syntax <operator> ifile |
| showformat | Show file format |
| showcode | Show code numbers |
| showname | Show variable names |
| showstdname | Show standard names |
| showlevel | Show levels |
| showtype | Show GRIB level types |
| showyear | Show years |
| showmon | Show months |
| showdate | Show dates |
| showtime | Show time steps |
| | Syntax <operator> ifile |

| | |
|----------|---------------------------|
| pardes | Parameter description |
| griddes | Grid description |
| zaxisdes | Z-axis description |
| vct | Vertical coordinate table |
| | Syntax <operator> ifile |

File operations

| | |
|------------|---|
| copy | Copy datasets |
| cat | Concatenate datasets |
| | Syntax <operator> ifiles ofile |
| replace | Replace variables |
| | Syntax replace ifile1 ifile2 ofile |
| merge | Merge datasets with different fields |
| mergetime | Merge datasets sorted by date and time |
| | Syntax <operator> ifiles ofile |
| splitcode | Split code numbers |
| splitname | Split variable names |
| splitlevel | Split levels |
| splitgrid | Split grids |
| splitzaxis | Split z-axes |
| | Syntax <operator> ifile oprefix |
| splithour | Split hours |
| splitday | Split days |
| splitmon | Split months |
| splitseas | Split seasons |
| splityear | Split years |
| | Syntax <operator> ifile oprefix |
| splitsel | Split time selection |
| | Syntax splitsel,nsets[,noffset[,nskip]] ifile oprefix |

Selection

| | |
|--------------|--|
| selcode | Select variables by code number |
| delcode | Delete variables by code number |
| | Syntax <operator>,codes ifile ofile |
| selname | Select variables by name |
| delname | Delete variables by name |
| | Syntax <operator>,varnames ifile ofile |
| selstdname | Select variables by standard name |
| | Syntax selstdname,stdnames ifile ofile |
| sellevel | Select levels |
| | Syntax sellevel,levels ifile ofile |
| sellevidx | Select levels by index |
| | Syntax sellevidx,levidx ifile ofile |
| selgrid | Select grids |
| | Syntax selgrid,grids ifile ofile |
| selgridname | Select grids by name |
| | Syntax selgridname,gridnames ifile ofile |
| selzaxis | Select z-axes |
| | Syntax selzaxis,zaxes ifile ofile |
| selzaxisname | Select z-axes by name |
| | Syntax selzaxisname,zaxisnames ifile ofile |
| selltype | Select GRIB level types |
| | Syntax selltype,types ifile ofile |
| seltabnum | Select parameter table numbers |
| | Syntax seltabnum,tabnums ifile ofile |

| | |
|-------------|--|
| seltimestep | Select time steps |
| | Syntax seltimestep,timesteps ifile ofile |
| seltime | Select times |
| | Syntax seltime,times ifile ofile |
| selhour | Select hours |
| | Syntax selhour,hours ifile ofile |
| selday | Select days |
| | Syntax selday,days ifile ofile |
| selmon | Select months |
| | Syntax selmon,months ifile ofile |
| selyear | Select years |
| | Syntax selyear,years ifile ofile |
| selseas | Select seasons |
| | Syntax selseas,seasons ifile ofile |
| seldate | Select dates |
| | Syntax seldate,date1[,date2] ifile ofile |
| selsmon | Select single month |
| | Syntax selsmon,month[,nts1[,nts2]] ifile ofile |

| | |
|--------------|---|
| sellonlatbox | Select a longitude/latitude box |
| | Syntax sellonlatbox,lon1,lon2,lat1,lat2 ifile ofile |
| selindexbox | Select an index box |
| | Syntax selindexbox,idx1,idx2,idy1,idy2 ifile ofile |

Conditional selection

| | |
|------------|--|
| ifthen | If then |
| ifnotthen | If not then |
| | Syntax <operator> ifile1 ifile2 ofile |
| ifthenelse | If then else |
| | Syntax ifthenelse ifile1 ifile2 ifile3 ofile |
| ifthenc | If then constant |
| ifnotthenc | If not then constant |
| | Syntax <operator>,c ifile ofile |

Comparison

| | |
|-----|---------------------------------------|
| eq | Equal |
| ne | Not equal |
| le | Less equal |
| lt | Less than |
| ge | Greater equal |
| gt | Greater than |
| | Syntax <operator> ifile1 ifile2 ofile |
| eqc | Equal constant |
| nec | Not equal constant |
| lec | Less equal constant |
| ltc | Less than constant |
| gec | Greater equal constant |
| gtc | Greater than constant |
| | Syntax <operator>,c ifile ofile |

Modification

| | |
|-----------|------------------------------------|
| setpartab | Set parameter table |
| | Syntax setpartab,table ifile ofile |
| setcode | Set code number |
| | Syntax setcode,code ifile ofile |
| setname | Set variable name |
| | Syntax setname,name ifile ofile |
| setlevel | Set level |
| | Syntax setlevel,level ifile ofile |
| setltype | Set GRIB level type |
| | Syntax setltype,ltype ifile ofile |

| | |
|-------------|---|
| setdate | Set date |
| | Syntax setdate,date ifile ofile |
| settime | Set time of the day |
| | Syntax settime,time ifile ofile |
| setday | Set day |
| | Syntax setday,day ifile ofile |
| setmon | Set month |
| | Syntax setmon,month ifile ofile |
| setyear | Set year |
| | Syntax setyear,year ifile ofile |
| settunits | Set time units |
| | Syntax settunits,units ifile ofile |
| settaxis | Set time axis |
| | Syntax settaxis,date,time[,inc] ifile ofile |
| setreftime | Set reference time |
| | Syntax setreftime,date,time ifile ofile |
| setcalendar | Set calendar |
| | Syntax setcalendar,calendar ifile ofile |
| shifttime | Shift time steps |
| | Syntax shifttime,sval ifile ofile |

| | |
|----------|---|
| chcode | Change code number |
| | Syntax chcode,oldcode,newcode[,...] ifile ofile |
| chname | Change variable name |
| | Syntax chname,oldname,newname,... ifile ofile |
| chlevel | Change level |
| | Syntax chlevel,oldlev,newlev,... ifile ofile |
| chlevelc | Change level of one code |
| | Syntax chlevelc,code,oldlev,newlev ifile ofile |
| chlevelv | Change level of one variable |
| | Syntax chlevelv,name,oldlev,newlev ifile ofile |

| | |
|-------------|---|
| setgrid | Set grid |
| | Syntax setgrid,grid ifile ofile |
| setgridtype | Set grid type |
| | Syntax setgridtype,gridtype ifile ofile |

| | |
|----------|-----------------------------------|
| setzaxis | Set z-axis |
| | Syntax setzaxis,zaxis ifile ofile |

| | |
|----------|--|
| setgatt | Set global attribute |
| | Syntax setgatt,attname,attstring ifile ofile |
| setgatts | Set global attributes |
| | Syntax setgatts,attfile ifile ofile |

| | |
|-----------|------------------------------|
| invertlat | Invert latitudes |
| | Syntax invertlat ifile ofile |

| | |
|-----------|------------------------------|
| invertlev | Invert levels |
| | Syntax invertlev ifile ofile |

| | |
|------------|---------------------------------------|
| maskregion | Mask regions |
| | Syntax maskregion,regions ifile ofile |

| | |
|---------------|--|
| masklonlatbox | Mask a longitude/latitude box |
| | Syntax masklonlatbox,lon1,lon2,lat1,lat2 ifile ofile |
| maskindexbox | Mask an index box |
| | Syntax maskindexbox,idx1,idx2,idy1,idy2 ifile ofile |

| | |
|---------------|--|
| setclonlatbox | Set a longitude/latitude box to constant |
| | Syntax setclonlatbox,c,lon1,lon2,lat1,lat2 ifile ofile |
| setcindexbox | Set an index box to constant |
| | Syntax setcindexbox,c,idx1,idx2,idy1,idy2 ifile ofile |

| | |
|---------|---------------------------------|
| enlarge | Enlarge fields |
| | Syntax enlarge,grid ifile ofile |

| | |
|------------|---|
| setmissval | Set a new missing value |
| | Syntax setmissval,newmiss ifile ofile |
| setctomiss | Set constant to missing value |
| setmisstoc | Set missing value to constant |
| | Syntax <operator>,c ifile ofile |
| setrtomiss | Set range to missing value |
| | Syntax setrtomiss,rmin,rmax ifile ofile |

Arithmetic

| | |
|-----------------|--|
| expr | Evaluate expressions |
| Syntax | expr , <i>instr</i> ifile ofile |
| exprf | Evaluate expressions from script file |
| Syntax | exprf , <i>filename</i> ifile ofile |
| abs | Absolute value |
| int | Integer value |
| nint | Nearest integer value |
| pow | Power |
| sqr | Square |
| sqrt | Square root |
| exp | Exponential |
| ln | Natural logarithm |
| log10 | Base 10 logarithm |
| sin | Sine |
| cos | Cosine |
| tan | Tangent |
| asin | Arc sine |
| acos | Arc cosine |
| atan | Arc tangent |
| Syntax | <operator> ifile ofile |
| addc | Add a constant |
| subc | Subtract a constant |
| mulc | Multiply with a constant |
| divc | Divide by a constant |
| Syntax | <operator> , <i>c</i> ifile ofile |
| add | Add two fields |
| sub | Subtract two fields |
| mul | Multiply two fields |
| div | Divide two fields |
| min | Minimum of two fields |
| max | Maximum of two fields |
| atan2 | Arc tangent of two fields |
| Syntax | <operator> ifile1 ifile2 ofile |
| monadd | Add monthly time series |
| monsub | Subtract monthly time series |
| monmul | Multiply monthly time series |
| monddiv | Divide monthly time series |
| Syntax | <operator> ifile1 ifile2 ofile |
| ymonadd | Add multi-year monthly time series |
| ymonsub | Subtract multi-year monthly time series |
| ymonmul | Multiply multi-year monthly time series |
| ymonddiv | Divide multi-year monthly time series |
| Syntax | <operator> ifile1 ifile2 ofile |
| muldpm | Multiply with days per month |
| divdpm | Divide by days per month |
| mulpy | Multiply with days per year |
| divdpy | Divide by days per year |
| Syntax | <operator> ifile ofile |

Statistical values

| Available statistical functions | | <STAT> |
|---------------------------------|--|--------|
| minimum | | min |
| maximum | | max |
| sum | | sum |
| mean | | mean |
| average | | avg |
| variance | | var |
| standard deviation | | std |

| | |
|-----------|-------------------------------------|
| ens<STAT> | Statistical values over an ensemble |
| Syntax | <operator> ifiles ofile |
| enspctl | Ensemble percentiles |
| Syntax | enspctl,p ifiles ofile |
| fld<STAT> | Statistical values over a field |
| Syntax | <operator> ifile ofile |
| fldpctl | Field percentiles |
| Syntax | fldpctl,p ifile ofile |

| | |
|---------------------------|---|
| zon<STAT> | Zonal statistical values |
| Syntax | <operator> ifile ofile |
| zonpctl | Zonal percentiles |
| Syntax | zonpctl , <i>p</i> ifile ofile |
| mer<STAT> | Meridional statistical values |
| Syntax | <operator> ifile ofile |
| merpctl | Meridional percentiles |
| Syntax | merpctl , <i>p</i> ifile ofile |
| vert<STAT> | Vertical statistical values |
| Syntax | <operator> ifile ofile |
| timsel<STAT> | Time range statistical values |
| Syntax | <operator> , <i>nsets</i> [, <i>noffset</i>][, <i>nskip</i>] ifile ofile |
| timselfpctl | Time range percentiles |
| Syntax | timselfpctl , <i>p</i> , <i>nsets</i> [, <i>noffset</i>][, <i>nskip</i>] ifile1 ifile2 ofile |
| run<STAT> | Running statistical values |
| Syntax | <operator> , <i>nts</i> ifile ofile |
| runpctl | Running percentiles |
| Syntax | runpctl , <i>p</i> , <i>nts</i> ifile1 ofile |
| tim<STAT> | Statistical values over all time steps |
| Syntax | <operator> ifile ofile |
| timpctl | Time percentiles |
| Syntax | timpctl , <i>p</i> ifile1 ifile2 ifile3 ofile |
| hour<STAT> | Hourly statistical values |
| Syntax | <operator> ifile ofile |
| hourpctl | Hourly percentiles |
| Syntax | hourpctl , <i>p</i> ifile1 ifile2 ifile3 ofile |
| day<STAT> | Daily statistical values |
| Syntax | <operator> ifile ofile |
| daypctl | Daily percentiles |
| Syntax | daypctl , <i>p</i> ifile1 ifile2 ifile3 ofile |
| mon<STAT> | Monthly statistical values |
| Syntax | <operator> ifile ofile |
| monpctl | Monthly percentiles |
| Syntax | monpctl , <i>p</i> ifile1 ifile2 ifile3 ofile |
| year<STAT> | Yearly statistical values |
| Syntax | <operator> ifile ofile |
| yearpctl | Yearly percentiles |
| Syntax | yearpctl , <i>p</i> ifile1 ifile2 ifile3 ofile |
| seas<STAT> | Seasonal statistical values |
| Syntax | <operator> ifile ofile |
| seaspctl | Seasonal percentiles |
| Syntax | seaspctl , <i>p</i> ifile1 ifile2 ifile3 ofile |
| yhour<STAT> | Multi-year hourly statistical values |
| Syntax | <operator> ifile ofile |
| yday<STAT> | Multi-year daily statistical values |
| Syntax | <operator> ifile ofile |
| ydaypctl | Multi-year daily percentiles |
| Syntax | ydaypctl , <i>p</i> ifile1 ifile2 ifile3 ofile |
| ymon<STAT> | Multi-year monthly statistical values |
| Syntax | <operator> ifile ofile |
| ymonpctl | Multi-year monthly percentiles |
| Syntax | ymonpctl , <i>p</i> ifile1 ifile2 ifile3 ofile |
| yseas<STAT> | Multi-year seasonal statistical values |
| Syntax | <operator> ifile ofile |
| yseaspctl | Multi-year seasonal percentiles |
| Syntax | yseaspctl , <i>p</i> ifile1 ifile2 ifile3 ofile |
| ydrun<STAT> | Multi-year daily running statistical values |
| Syntax | <operator> , <i>nts</i> ifile ofile |
| ydrunpctl | Multi-year daily running percentiles |
| Syntax | ydrunpctl , <i>p</i> , <i>nts</i> ifile1 ifile2 ifile3 ofile |

Regression

| | |
|-----------------|--|
| regres | Regression |
| Syntax | regres ifile ofile |
| detrend | Detrend |
| Syntax | detrend ifile ofile |
| trend | Trend |
| Syntax | trend ifile ofile1 ofile2 |
| subtrend | Subtract trend |
| Syntax | subtrend ifile1 ifile2 ifile3 ofile |

Interpolation

| | |
|--------------------|--|
| remapbil | Bilinear interpolation |
| remapbic | Bicubic interpolation |
| remapcon | Conservative remapping |
| remapdis | Distance-weighted average remapping |
| Syntax | <operator> , <i>grid</i> ifile ofile |
| genbil | Generate bilinear interpolation weights |
| genbic | Generate bicubic interpolation weights |
| gencon | Generate conservative interpolation weights |
| gendis | Generate distance-weighted average remap weights |
| Syntax | <operator> , <i>grid</i> ifile ofile |
| remap | SCRIP grid remapping |
| Syntax | remap , <i>grid</i> , <i>weights</i> ifile ofile |
| interpolate | PINGO grid interpolation |
| intgridbil | Bilinear grid interpolation |
| Syntax | <operator> , <i>grid</i> ifile ofile |
| remapeta | Remap vertical hybrid level |
| Syntax | remapeta , <i>vct</i> [, <i>oro</i>] ifile ofile |
| ml2pl | Model to pressure level interpolation |
| Syntax | ml2pl , <i>plevels</i> ifile ofile |
| ml2hl | Model to height level interpolation |
| Syntax | ml2hl , <i>hlevels</i> ifile ofile |
| intlevel | Linear level interpolation |
| Syntax | intlevel , <i>levels</i> ifile ofile |
| inttime | Time interpolation |
| Syntax | inttime , <i>date</i> , <i>time</i> [, <i>inc</i>] ifile ofile |
| intntime | Time interpolation |
| Syntax | intntime , <i>n</i> ifile ofile |
| intyear | Year interpolation |
| Syntax | intyear , <i>years</i> ifile1 ifile2 oprefix |

Transformation

| | |
|---------------|---|
| sp2gp | Spectral to gridpoint |
| sp2gpl | Spectral to gridpoint (linear) |
| gp2sp | Gridpoint to spectral |
| gp2spl | Gridpoint to spectral (linear) |
| Syntax | <operator> ifile ofile |
| sp2sp | Spectral to spectral |
| Syntax | sp2sp , <i>trunc</i> ifile ofile |
| spcut | Cut spectral wave number |
| Syntax | spcut , <i>wnums</i> ifile ofile |
| dv2uv | Divergence and vorticity to U and V wind |
| dv2uvl | Divergence and vorticity to U and V wind (linear) |
| uv2dv | U and V wind to divergence and vorticity |
| uv2dvl | U and V wind to divergence and vorticity (linear) |
| Syntax | <operator> ifile ofile |

Formatted I/O

| | |
|-----------------|----------------------------------|
| input | ASCII input |
| Syntax | input , <i>grid</i> ofile |
| inputsrv | SERVICE ASCII input |
| inputext | EXTRA ASCII input |
| Syntax | <operator> ofile |

| | |
|-------------------|--|
| output | ASCII output |
| Syntax | output ifiles |
| outputf | Formatted output |
| Syntax | outputf , <i>format</i> , <i>nelem</i> ifiles |
| outputint | Integer output |
| outputsrv | SERVICE ASCII output |
| outputtext | EXTRA ASCII output |
| Syntax | <operator> ifiles |

Miscellaneous

| | |
|---------------------|--|
| gridarea | Grid cell area |
| gridweights | Grid cell weights |
| Syntax | <operator> ifile ofile |
| gradsdes1 | GrADS data descriptor file (version 1 GRIB map) |
| gradsdes2 | GrADS data descriptor file (version 2 GRIB map) |
| Syntax | <operator> ifile |
| smooth9 | 9 point smoothing |
| Syntax | smooth9 ifile ofile |
| setrtoc | Set range to constant |
| Syntax | setrtoc , <i>rmin</i> , <i>rmax</i> , <i>c</i> ifile ofile |
| setrtoc2 | Set range to constant others to constant2 |
| Syntax | setrtoc2 , <i>rmin</i> , <i>rmax</i> , <i>c</i> , <i>c2</i> ifile ofile |
| timsort | Sort over the time |
| Syntax | timsort ifile ofile |
| const | Create a constant field |
| Syntax | const , <i>const</i> , <i>grid</i> ofile |
| random | Create a field with random values |
| Syntax | random , <i>grid</i> ofile |
| rotuvb | Backward rotation |
| Syntax | rotuvb , <i>u</i> , <i>v</i> ,... ifile ofile |
| mastrfu | Mass stream function |
| Syntax | mastrfu ifile ofile |
| histcount | Histogram count |
| histsum | Histogram sum |
| histmean | Histogram mean |
| histfreq | Histogram frequency |
| Syntax | <operator> , <i>bounds</i> ifile ofile |
| wct | Windchill temperature |
| Syntax | wct ifile1 ifile2 ofile |
| fdns | Frost days where no snow index per time period |
| Syntax | fdns ifile1 ifile2 ofile |
| strwin | Strong wind days index per time period |
| Syntax | strwin [, <i>v</i>] ifile ofile |
| strbre | Strong breeze days index per time period |
| Syntax | strbre ifile ofile |
| strgal | Strong gale days index per time period |
| Syntax | strgal ifile ofile |
| hurr | Hurricane days index per time period |
| Syntax | hurr ifile ofile |
| import_amsr | Import AMSR binary files |
| Syntax | import_amsr ifile ofile |
| import_cmsaf | Import CM-SAF files |
| Syntax | import.cmsaf ifile ofile |

Climate indices

| | |
|----------------|---|
| eca_cdd | Consecutive dry days index per time period |
| Syntax | eca_cdd ifile ofile |
| eca_cfd | Consecutive frost days index per time period |
| Syntax | eca_cfd ifile ofile |
| eca_csu | Consecutive summer days index per time period |
| Syntax | eca_csu [, <i>T</i>] ifile ofile |
| eca_cwd | Consecutive wet days index per time period |
| Syntax | eca_cwd ifile ofile |

| | | | |
|--------------------|---|------------------|--|
| eca_cwdi | Cold wave duration index wrt mean of reference period | eca_tx10p | Very cold days percent wrt 10th percentile of reference period |
| Syntax | eca_cwdi <i>[,nday[,T]] ifile1 ifile2 ofile</i> | Syntax | eca_tx10p ifile1 ifile2 ofile |
| eca_cwfi | Cold-spell days index wrt 10th percentile of reference period | eca_tx90p | Very warm days percent wrt 90th percentile of reference period |
| Syntax | eca_cwfi <i>[,nday] ifile1 ifile2 ofile</i> | Syntax | eca_tx90p ifile1 ifile2 ofile |
| eca_etr | Intra-period extreme temperature range | | |
| Syntax | eca_etr ifile1 ifile2 ofile | | |
| eca_fd | Frost days index per time period | | |
| Syntax | eca_fd ifile ofile | | |
| eca_gsl | Growing season length index | | |
| Syntax | eca_gsl <i>[,nday[,T[,fland]]] ifile1 ifile2 ofile</i> | | |
| eca_hd | Heating degree days per time period | | |
| Syntax | eca_hd <i>[,T1[,T2]] ifile ofile</i> | | |
| eca_hwdi | Heat wave duration index wrt mean of reference period | | |
| Syntax | eca_hwdi <i>[,nday[,T]] ifile1 ifile2 ofile</i> | | |
| eca_hwfi | Warm spell days index wrt 90th percentile of reference period | | |
| Syntax | eca_hwfi <i>[,nday] ifile1 ifile2 ofile</i> | | |
| eca_id | Ice days index per time period | | |
| Syntax | eca_id ifile ofile | | |
| eca_r10mm | Heavy precipitation days index per time period | | |
| Syntax | eca_r10mm ifile ofile | | |
| eca_r20mm | Very heavy precipitation days index per time period | | |
| Syntax | eca_r20mm ifile ofile | | |
| eca_r75p | Moderate wet days wrt 75th percentile of reference period | | |
| Syntax | eca_r75p ifile1 ifile2 ofile | | |
| eca_r75ptot | Precipitation percent due to R75p days | | |
| Syntax | eca_r75ptot ifile1 ifile2 ofile | | |
| eca_r90p | Wet days wrt 90th percentile of reference period | | |
| Syntax | eca_r90p ifile1 ifile2 ofile | | |
| eca_r90ptot | Precipitation percent due to R90p days | | |
| Syntax | eca_r90ptot ifile1 ifile2 ofile | | |
| eca_r95p | Very wet days wrt 95th percentile of reference period | | |
| Syntax | eca_r95p ifile1 ifile2 ofile | | |
| eca_r95ptot | Precipitation percent due to R95p days | | |
| Syntax | eca_r95ptot ifile1 ifile2 ofile | | |
| eca_r99p | Extremely wet days wrt 99th percentile of reference period | | |
| Syntax | eca_r99p ifile1 ifile2 ofile | | |
| eca_r99ptot | Precipitation percent due to R99p days | | |
| Syntax | eca_r99ptot ifile1 ifile2 ofile | | |
| eca_rr1 | Wet days index per time period | | |
| Syntax | eca_rr1 ifile ofile | | |
| eca_rx1day | Highest one day precipitation amount per time period | | |
| Syntax | eca_rx1day <i>[,mode] ifile ofile</i> | | |
| eca_rx5day | Highest five-day precipitation amount per time period | | |
| Syntax | eca_rx5day <i>[,x] ifile ofile</i> | | |
| eca_sdii | Simple daily intensity index per time period | | |
| Syntax | eca_sdii ifile ofile | | |
| eca_su | Summer days index per time period | | |
| Syntax | eca_su <i>[,T] ifile ofile</i> | | |
| eca_tg10p | Cold days percent wrt 10th percentile of reference period | | |
| Syntax | eca_tg10p ifile1 ifile2 ofile | | |
| eca_tg90p | Warm days percent wrt 90th percentile of reference period | | |
| Syntax | eca_tg90p ifile1 ifile2 ofile | | |
| eca_tn10p | Cold nights percent wrt 10th percentile of reference period | | |
| Syntax | eca_tn10p ifile1 ifile2 ofile | | |
| eca_tn90p | Warm nights percent wrt 90th percentile of reference period | | |
| Syntax | eca_tn90p ifile1 ifile2 ofile | | |
| eca_tr | Tropical nights index per time period | | |
| Syntax | eca.tr <i>[,T] ifile ofile</i> | | |