| CDO Def | on an Canal | File operation | ns | Conditional s | selection | setgrid | Set grid |
|----------------------|---|---|--|---------------|--|---------------|---|
| CDO Refer | ence Cara | copy | Copy datasets | ifthen | If then | Syntax | setgrid,grid ifile ofile Set grid type |
| | | cat | Concatenate datasets | ifnotthen | If not then | 0 01 | ~ ** |
| | Climate Data Operators | Syntax | <pre><operator> ifiles ofile</operator></pre> | Syntax | I . | Syntax | setgridtype,gridtype ifile ofile |
| | Version 1.0.7 | | | ifthenelse | If then else | setzaxis | Set zaxis |
| | February 2007 | replace Syntax | Replace variables replace ifile1 ifile2 ofile | Syntax | ifthenelse ifile1 ifile2 ifile3 ofile | Syntax | setzaxis,zaxis ifile ofile |
| | rebruary 2007 | Symax | * | | | setgatt | Set global attribute |
| Uwe Schulzweida | | merge | Merge datasets with different fields | ifthenc | If then constant | Syntax | setgatt,attname,attstring ifile ofile |
| Max-Planck-Institute | o for Meteorology | mergetime | Merge datasets sorted by date and time | ifnotthenc | If not then constant | setgatts | Set global attributes |
| Wax-1 lanck-mount | of Meteorology | Syntax | <pre><operator> ifiles ofile</operator></pre> | Syntax | <operator>,c ifile ofile</operator> | Syntax | setgatts,attfile ifile ofile |
| | | splitcode | Split codes | i ———— | | V | |
| | | splitvar | Split variables | | | invertlat | Invert latitude |
| | | splitlevel | Split levels | | | invertion | Invert longitude |
| Syntax | | _ | | Comparison | | invertlatdes | Invert latitude description |
| Syntax | | splitgrid Split grids splitzaxis Split zaxis | | | | invertiondes | Invert longitude description |
| cdo [Options] O | Operators | - | Split records | eq | Equal | invertlatdata | Invert latitude data |
| | | splitrec | | ne | Not equal | invertlondata | Invert longitude data |
| | | Syntax | <pre><operator> ifile oprefix</operator></pre> | le | Less equal | Syntax | <pre><operator> ifile ofile</operator></pre> |
| Options | | splithour | Split hours | lt | Less than | masklonlathox | Mask a longitude/latitude box |
| • | | splitday | Split days | ge | Greater equal | Syntax | masklonlatbox,lon1,lon2,lat1,lat2 ifile ofile |
| | onvert from a relative to an absolute time axis | splitmon | Split months | gt | Greater than | | Mask an index box |
| | t the number of bits for the output precision | splitseas | Split seasons | Syntax | $<\!operator\!>$ ifile1 ifile2 ofile | Syntax | maskindexbox,idx1,idx2,idy1,idy2 ifile ofile |
| | 2/64 for nc, nc2, srv, ext, ieg; 1 - 32 for grb) | splityear | Split years | eqc | Equal constant | | , , , , , , |
| | atput file format (grb, nc, nc2, srv, ext, ieg) | Syntax | <pre><operator> ifile oprefix</operator></pre> | nec | Not equal constant | setclonlatbox | Set a longitude/latitude box to constant |
| 0 0 | id name or file | | | lec | Less equal constant | Syntax | setclonlatbox,c,lon1,lon2,lat1,lat2 ifile ofile |
| | railable grids: t <res>grid, r<nx>x<ny></ny></nx></res> | | | ltc | Less then constant | setcindexbox | Set an index box to constant |
| | lp information for the operators | Selection | | gec | Greater equal constant | Syntax | <pre>setcindexbox,c,idx1,idx2,idy1,idy2 ifile ofile</pre> |
| | t the default missing value (default: -9e+33) | selcode | Select codes | gtc | Greater equal constant Greater then constant | enlarge | Enlarge fields |
| -R Con | onvert GRIB data from reduced to regular grid | | | | <pre></pre> <pre><operator>,c ifile ofile</operator></pre> | Syntax | enlarge,grid ifile ofile |
| -r Con | overt from an absolute to a relative time axis | delcode | Delete codes | Syntax | <pre><operator>,c life office</operator></pre> | Dyntax | |
| -t Set | t the parameter table name or file | Syntax | <pre><operator>,codes ifile ofile</operator></pre> | | | setmissval | Set a new missing value |
| | edefined tables: echam4 echam5 mpiom1 | selvar | Select variables | | | Syntax | setmissval,miss ifile ofile |
| | int the version number | delvar | Delete variables | Modification | | setctomiss | Set constant to missing value |
| | int extra details for some operators | Syntax | <pre><operator>,vars ifile ofile</operator></pre> | Modification | | setmisstoc | Set missing value to constant |
| - • 111 | int extra details for some operators | selstdname | Select standard names | setpartab | Set parameter table | Syntax | < operator >, c ifile ofile |
| | | Syntax | selstdname,stdnames ifile ofile | Syntax | setpartab, table ifile ofile | setrtomiss | Set range to missing value |
| Operators | | sellevel | Select levels | setcode | Set code number | Syntax | setrtomiss,rmin,rmax ifile ofile |
| Operators | | Syntax | sellevel, levels ifile ofile | | setcode,code ifile ofile | | , |
| Information | | selgrid | Select grids | setvar | Set variable name | | |
| info Da | staset information listed by code number | Syntax | selgrid,grids ifile ofile | | setvar, name ifile ofile | Arithmetic | |
| | taset information listed by variable name | selgridname | Select grids by name | setlevel | Set level | expr | Evaluate expressions |
| | taset information and simple map | Syntax | selgridname, gridnames ifile ofile | | setlevel, level ifile ofile | Syntax | expr,instr ifile ofile |
| | operator > ifiles | selzaxis | Select zaxes | | , | exprf | Evaluate expressions from script file |
| | * | Syntax | selzaxis,zaxes ifile ofile | setdate | Set date | Syntax | exprf, filename ifile ofile |
| | ort dataset information listed by code number | selzaxisname | Select zaxes by name | Syntax | · · · · · · · · · · · · · · · · · · · | | • ' |
| sinfov Sho | ort dataset information listed by variable name | Syntax | selzaxisname,zaxisnames ifile ofile | settime | Set time | abs | Absolute value |
| Syntax < o | operator > ifile | seltabnum | Select parameter table numbers | Syntax | • | int | Integer value |
| diff Con | empare two datasets listed by code number | Syntax | seltabnum,tabnums ifile ofile | setday | Set day | nint | Nearest integer value |
| | impare two datasets listed by variable name | selrec | Select records | Syntax | setday,day ifile ofile | sqr | Square |
| | operator > ifile1 ifile2 | Syntax | selrec, records ifile ofile | setmon | Set month | sqrt | Square root |
| v v | * | | , | Syntax | setmon, month ifile ofile | exp | Exponential |
| | umber of codes | seltimestep | Select time steps | setyear | Set year | ln | Natural logarithm |
| | umber of variables | Syntax | seltimestep,timesteps ifile ofile | Syntax | setyear, year ifile ofile | log10 | Base 10 logarithm |
| | umber of levels | seltime | Select times | settunits | Set time units | sin | Sine |
| | umber of years | Syntax | seltime, times ifile ofile | Syntax | I . | cos | Cosine |
| | umber of months | selhour | Select hours | settaxis | Set time axis | tan | Tangent |
| | umber of dates | Syntax | selhour, hours ifile ofile | | settaxis, date, time[,inc] ifile ofile | asin | Arc sine |
| | umber of time steps | selday | Select days | V | Set reference time | acos | Arc cosine |
| Syntax < o | operator> ifile | Syntax | selday,days ifile ofile | | setreftime, date, time ifile ofile | atan | Arc tangent |
| showformat Sho | ow file format | selmon | Select months | setcalendar | Set calendar | Syntax | <pre><operator> ifile ofile</operator></pre> |
| | ow codes | Syntax | selmon, months ifile ofile | | setcalendar, calendar ifile ofile | | |
| | ow variable names | selyear | Select years | shifttime | Shift time steps | addc | Add a constant |
| | ow standard names | Syntax | selyear, years ifile ofile | | shifttime,sval ifile ofile | subc | Subtract a constant |
| | ow levels | selseas | Select seasons | | · · · · · · · · · · · · · · · · · · · | mulc | Multiply with a constant |
| | ow years | Syntax | selseas,seasons ifile ofile | chcode | Change code number | divc | Divide by a constant |
| | · · | seldate | Select dates | Syntax | chcode,oldcode,newcode[,] ifile ofile | Syntax | < operator >, c ifile ofile |
| | ow months | 1.1 | | chvar | Change variable name | add | Add two fields |
| | ow dates | Syntax | seldate,date1[,date2] ifile ofile | | chvar,ovar,nvar, ifile ofile | sub | Subtract two fields |
| | ow time steps | selsmon | Select single month | chlevel | Change level | mul | Multiply two fields |
| Syntax < o | operator> ifile | Syntax | selsmon,month[,nts1[,nts2]] ifile ofile | | chlevel,oldlev,newlev, ifile ofile | div | Divide two fields |
| vardes Var | riable description | sellonlatbox | Select a longitude/latitude box | chlevelc | Change level of one code | min | Minimum of two fields |
| | id description | Syntax | sellonlatbox,lon1,lon2,lat1,lat2 ifile ofile | | chlevelc,code,oldlev,newlev ifile ofile | max | Maximum of two fields |
| | rtical coordinate table | selindexbox | Select an index box | chlevelv | Change level of one variable | atan2 | Arc tangent of two fields |
| VCt VCI | | 1.1 | | cineveiv | Change level of one variable | atan2 | Are tangent of two nerds |
| | operator> ifile | Syntax | selindexbox,idx1,idx2,idy1,idy2 ifile ofile | Comton | chlevelv,var,oldlev,newlev ifile ofile | Syntax | <pre><operator> ifile1 ifile2 ofile</operator></pre> |

| | | n | | | | 1 | |
|--|---|--|--|--|---|---|---|
| ymonadd | Add multi-year monthly time average | | | seasmin | Seasonal minimum | genbil | Generate bilinear interpolation weights |
| ymonsub | Subtract multi-year monthly time average | runmin | Running minimum | seasmax | Seasonal maximum | genbic | Generate bicubic interpolation weights |
| ymonmul | Multiply multi-year monthly time average | runmax | Running maximum | seassum | Seasonal sum | gencon | Generate conservative interpolation weights |
| ymondiv | Divide multi-year monthly time average | runsum | Running sum | seasmean | Seasonal mean | gendis | Generate distance-weighted averaging weights |
| Syntax | <pre><operator> ifile1 ifile2 ofile</operator></pre> | runmean | Running mean | seasavg | Seasonal average | Syntax | <pre><operator>,grid ifile ofile</operator></pre> |
| muldom | Multiply with days per month | runavg | Running average | seasvar | Seasonal variance | remap | SCRIP grid remapping |
| muldpm | Divide by days per month | runvar | Running variance | seasstd | Seasonal standard deviation | | remap,grid,weights ifile ofile |
| divdpm | | runstd | Running standard deviation | Syntax | <pre><operator> ifile ofile</operator></pre> | Syntax | remap,grid,weights fiffe offie |
| muldpy | Multiply with days per year | Syntax | <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre> | | | interpolate | PINGO grid interpolation |
| divdpy | Divide by days per year | Symax | <pre><operator>,nts lille ollle</operator></pre> | seaspctl | Seasonal percentiles | intgridbil | Bilinear grid interpolation |
| Syntax | < operator > ifile ofile | runpctl | Running percentiles | Syntax | $\mathbf{seaspctl}_{,p}$ ifile1 ifile2 ifile3 ofile | Syntax | <pre>< operator > ,grid ifile ofile</pre> |
| | | Syntax | runpctl,p,nts ifile1 ofile | ydaymin | Multi-year daily minimum | | |
| | | 4: | m:ii | ydaymax | Multi-year daily maximum | ml2pl | Model to pressure level interpolation |
| Statistical val | lues | timmin | Time minimum | ydaysum | Multi-year daily sum | Syntax | ml2pl,plevels ifile ofile |
| ensmin | Ensemble minimum | timmax | Time maximum | ydaymean | Multi-year daily mean | ml2hl | Model to height level interpolation |
| ensmax | Ensemble maximum | timsum | Time sum | ydayavg | Multi-year daily average | Syntax | ml2hl,hlevels ifile ofile |
| enssum | Ensemble sum | timmean | Time mean | | | inttime | Time interpolation |
| ensmean | Ensemble mean | timavg | Time average | ydayvar | Multi-year daily variance | Syntax | |
| ensavg | Ensemble average | timvar | Time variance | ydaystd | Multi-year daily standard deviation | intntime | Time interpolation |
| ensvar | Ensemble variance | timstd | Time standard deviation | Syntax | < operator > ifile ofile | | • |
| | Ensemble standard deviation | Syntax | <pre><operator> ifile ofile</operator></pre> | ydaypctl | Multi-year daily percentiles | Syntax | intntime,n ifile ofile |
| ensstd | | timmetl | Time nementiles | Syntax | ydaypctl,p ifile1 ifile2 ifile3 ofile | intyear | Year interpolation |
| | <pre><operator> ifiles ofile</operator></pre> | timpetl | Time percentiles | | * | Syntax | intyear, years ifile1 ifile2 oprefix |
| enspctl | Ensemble percentiles | Syntax | timpctl,p ifile1 ifile2 ifile3 ofile | ymonmin | Multi-year monthly minimum | | |
| Syntax | $\mathbf{enspctl}, p$ ifiles ofile | hourmin | Hourly minimum | ymonmax | Multi-year monthly maximum | | |
| fldmin | Field minimum | hourmax | Hourly maximum | ymonsum | Multi-year monthly sum | Thomas | on |
| fldmax | Field maximum | hoursum | Hourly sum | ymonmean | Multi-year monthly mean | Transformation | DII |
| fldsum | Field sum | hourmean | Hourly mean | ymonavg | Multi-year monthly average | sp2gp | Spectral to gridpoint |
| fldmean | Field mean | houravg | Hourly average | ymonvar | Multi-year monthly variance | sp2gpl | Spectral to gridpoint linear |
| fldavg | Field mean Field average | hourvar | Hourly variance | ymonstd | Multi-year monthly standard deviation | gp2sp | Gridpoint to spectral |
| _ | | hourstd | Hourly standard deviation | | <pre><operator> ifile ofile</operator></pre> | gp2spl | Gridpoint to spectral linear |
| fldvar | Field variance | l l | | | | Syntax | <pre>< operator > ifile ofile</pre> |
| fldstd | Field standard deviation | Syntax | <pre><operator> ifile ofile</operator></pre> | ymonpctl | Multi-year monthly percentiles | sp2sp | Spectral to spectral |
| | <pre><operator> ifile ofile</operator></pre> | hourpctl | Hourly percentiles | Syntax | $\mathbf{ymonpctl}, p$ ifile1 ifile2 ifile3 ofile | Syntax | |
| fldpctl | Field percentiles | Syntax | hourpctl,p ifile1 ifile2 ifile3 ofile | yseasmin | Multi-year seasonal minimum | | / |
| Syntax | fldpctl,p ifile ofile | | - ' | yseasmax | Multi-year seasonal maximum | uv2dv | U and V wind to divergence and vorticity |
| | 71 | daymin | Daily minimum | - | | dv2uv | Divergence and vorticity to U and V wind |
| | | | | | | | |
| zonmin | Zonal minimum | daymax | Daily maximum | yseassum | Multi-year seasonal sum | Syntax | <pre><operator> ifile ofile</operator></pre> |
| zonmax | Zonal maximum | daysum | Daily sum | yseasmean | Multi-year seasonal mean | Syntax | <pre><operator> ifile ofile</operator></pre> |
| zonmax zonsum | Zonal maximum Zonal sum | | | yseasmean yseasavg | Multi-year seasonal mean Multi-year seasonal average | Syntax | <pre><operator> ifile ofile</operator></pre> |
| zonmax zonsum zonmean | Zonal maximum Zonal sum Zonal mean | daysum | Daily sum | yseasmean yseasavg yseasvar | Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal variance | | |
| zonmax zonsum zonmean zonavg | Zonal maximum Zonal sum Zonal mean Zonal average | daysum daymean | Daily sum Daily mean | yseasmean yseasavg yseasvar yseasstd | Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal variance Multi-year seasonal standard deviation | Syntax Formatted I/ | |
| zonmax zonsum zonmean zonavg zonvar | Zonal maximum Zonal sum Zonal mean Zonal average Zonal variance | daysum daymean dayavg | Daily sum Daily mean Daily average | yseasmean yseasavg yseasvar | Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal variance | | |
| zonmax zonsum zonmean zonavg zonvar zonstd | Zonal maximum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation | daysum daymean dayavg dayvar | Daily sum Daily mean Daily average Daily variance | yseasmean yseasavg yseasvar yseasstd Syntax | Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal variance Multi-year seasonal standard deviation < operator > ifile ofile | Formatted I/ | O ASCII input |
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| zonmax zonsum zonmean zonavg zonvar zonstd Syntax zonpctl Syntax | Zonal maximum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation <operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile</operator> | daysum daymean dayavg dayvar daystd Syntax | Daily sum Daily mean Daily average Daily variance Daily standard deviation <operator> ifile ofile Daily percentiles</operator> | yseasmean yseasavg yseasvar yseasstd Syntax yseaspctl Syntax | Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal variance Multi-year seasonal standard deviation <operator> ifile ofile Multi-year seasonal percentiles yseaspctl,p ifile1 ifile2 ifile3 ofile Multi-year daily running minimum Multi-year daily running maximum</operator> | Formatted I/ input Syntax inputsrv inputext Syntax | ASCII input input,grid ofile SERVICE input EXTRA input <operator> ofile</operator> |
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| mastrfu | Mass stream function | | |
|-----------------------|--|----------------------|---|
| Syntax | mastrfu ifile ofile | eca_rx5day | Highest five-day precipitation amount per time per |
| hi | Humidity index (C) | Syntax | eca_rx5day[,x] ifile ofile |
| Syntax | hi ifile1 ifile2 ifile3 ofile Windchill temperature (C) | eca_sdii Syntax | Simple daily intensity index per time period eca_sdii ifile ofile |
| Syntax | wct ifile1 ifile2 ofile | eca_strwin Syntax | Strong wind days index per time period eca_strwin[,v] ifile ofile |
| ECA indices | | eca_strbre Syntax | Strong breeze days index per time period eca_strbre ifile ofile |
| eca_cdd Syntax | Consecutive dry days index per time period eca_cdd ifile ofile | eca_strgal Syntax | Strong gale days index per time period eca_strgal ifile ofile |
| eca_cfd Syntax | Consecutive frost days index per time period eca_cfd ifile ofile | eca_hurr Syntax | Hurricane days index per time period eca_hurr ifile ofile |
| eca_csu Syntax | Consecutive summer days index per time period $eca_csu[,T]$ ifile ofile | eca_su Syntax | Summer days index per time period eca_su[,T] ifile ofile |
| eca_cwd Syntax | Consecutive wet days index per time period eca_cwd ifile ofile | eca_tg10p Syntax | Cold days percent wrt 10th percentile of reference eca.tg10p ifile1 ifile2 ofile |
| eca_cwdi Syntax | Cold wave duration index wrt mean of reference pe eca_cwdi[,nday[,T]] ifile1 ifile2 ofile | | Warm days percent wrt 90th percentile of reference eca.tg90p ifile1 ifile2 ofile |
| eca_cwfi Syntax | Cold-spell days index wrt 10th percentile of referencea_cwfi[,nday] ifile1 ifile2 ofile | | Cold nights percent wrt 10th percentile of reference eca_tn10p ifile1 ifile2 ofile |
| eca_etr Syntax | Intra-period extreme temperature range eca_etr ifile1 ifile2 ofile | eca_tn90p Syntax | Warm nights percent wrt 90th percentile of reference eca_tn90p ifile1 ifile2 ofile |
| eca_fd Syntax | Frost days index per time period eca_fd ifile ofile | eca_tr Syntax | Tropical nights index per time period |
| eca_fdns Syntax | Frost days where no snow index per time period eca_fdns ifile1 ifile2 ofile | eca_tx10p | cca_tr[,T] ifile ofile Very cold days percent wrt 10th percentile of reference cold cold |
| eca_gsl Syntax | Growing season length index eca_gsl[,nday[,T]] ifile ofile | Syntax eca_tx90p | eca_tx10p ifile1 ifile2 ofile Very warm days percent wrt 90th percentile of re |
| eca_hd Syntax | Heating degree days per time period eca_hd[,T1[,T2]] ifile ofile | Syntax | eca_tx90p ifile1 ifile2 ofile |
| eca_hwdi Syntax | Heat wave duration index wrt mean of reference pe eca_hwdi[,nday[,T]] ifile1 ifile2 ofile | eriod | |
| eca_hwfi Syntax | Warm spell days index wrt 90th percentile of referencea_hwfi[,nday] ifile1 ifile2 ofile | ence period | |
| eca_id Syntax | Ice days index per time period eca_id ifile ofile | | |
| eca_r10mm Syntax | Heavy precipitation days index per time period eca_r10mm ifile ofile | | |
| eca_r20mm Syntax | Very heavy precipitation days index per time perio eca_r20mm ifile ofile | d | |
| eca_r75p Syntax | Moderate wet days wrt 75th percentile of reference eca_r75p ifile1 ifile2 ofile | period | |
| eca_r75ptot Syntax | Precipitation percent due to R75p days eca_r75ptot ifile1 ifile2 ofile | | |
| eca_r90p Syntax | Wet days wrt 90th percentile of reference period eca_r90p ifile1 ifile2 ofile | | |
| eca_r90ptot Syntax | Precipitation percent due to R90p days eca_r90ptot ifile1 ifile2 ofile | | |
| eca_r95p Syntax | Very wet days wrt 95th percentile of reference peri eca_r95p ifile1 ifile2 ofile | bod | |
| eca_r95ptot Syntax | Precipitation percent due to R95p days eca_r95ptot ifile1 ifile2 ofile | | |
| eca_r99p Syntax | Extremely wet days wrt 99th percentile of reference eca_r99p ifile1 ifile2 ofile | e period | |
| eca_r99ptot Syntax | Precipitation percent due to R99p days eca_r99ptot ifile1 ifile2 ofile | | |
| eca_rr1 Syntax | Wet days index per time period eca_rrl ifile ofile | | |
| eca_rx1day | Highest one day precipitation amount per time per | iod | |
| Syntax | eca_rx1day[,mode] ifile ofile | | |