# **CDO** Reference Card

Climate Data Operators Version 1.5.1 July 2011

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http://code.zmaw.de/projects/cdo

### File operations

<operator> ifile

pardes

griddes

zaxisdes

vct

copy	Copy datasets
cat	Concatenate datasets
<pre><operator> ifi</operator></pre>	iles ofile
replace	Replace variables
replace ifile1	ifile2 ofile
merge	Merge datasets with different fields
mergetime	Merge datasets sorted by date and time
<pre><operator> ifiles ofile</operator></pre>	
splitcode	Split code numbers
splitparam	Split parammeter identifiers
splitname	Split variable names
splitlevel	Split levels
splitgrid	Split grids
splitzaxis	Split z-axes
splittabnum	Split parameter table numbers
<pre><operator> ifile obase</operator></pre>	
splithour	Split hours
splitday	Split days
splitmon	Split months

Split seasons

Split time selection

Split years

splitsel, nsets[, noffset[, nskip]] ifile obase

Parameter description

Vertical coordinate table

Grid description

Z-axis description

Operators	

Information		
	info	Dataset information listed by parameter identifier
	infon	Dataset information listed by parameter name
	map	Dataset information and simple map
	<pre><operator> ifiles</operator></pre>	
	einfo	Short information listed by parameter identifier

Compare two datasets listed by parameter id Compare two datasets listed by parameter name

Number of parameters Number of levels nlevel Number of years nyear Number of months nmon ndate Number of dates ntime Number of time steps <operator> ifile

showformat Show file format showcode Show code numbers showname Show variable names showstdname Show standard names showlevel Show levels showltype Show GRIB level types Show years showyear showmon Show months Show date information showdate showtime

Selection

splitseas

splityear

splitsel

<operator > ifile obase

selparam	Select parameters by identifier	
delparam	Delete parameters by identifier	
<operator>,par</operator>	rams ifile ofile	
selcode	Select parameters by code number	
delcode	Delete parameters by code number	
< operator >, coo	les ifile ofile	
selname	Select parameters by name	
delname	Delete parameters by name	
<pre><operator>,names ifile ofile</operator></pre>		
selstdname	Select parameters by standard name	
selstdname,stdnames ifile ofile		
sellevel	Select levels	
sellevel, levels ifile ofile		
sellevidx	Select levels by index	
sellevidx, levidx ifile ofile		
selgrid	Select grids	
selgrid, grids ifile ofile		
selzaxis	Select z-axes	
selzaxis,zaxes ifile ofile		
selltype	Select GRIB level types	
selltype,ltypes ifile ofile		
seltabnum	Select parameter table numbers	
seltabnum,tabnums ifile ofile		

seltimestep	Select time steps	
seltimestep,tin	nesteps ifile ofile	
seltime	Select times	
seltime, times i	file ofile	
selhour	Select hours	
selhour, hours i	file ofile	
selday	Select days	
selday,days ifi	le ofile	
selmon	Select months	
selmon, months	ifile ofile	
selyear	Select years	
selyear, years ifile ofile		
selseas	Select seasons	
${\bf selse as}, seasons$	ifile ofile	
seldate	Select dates	
seldate,date1[,c	late2] ifile ofile	
selsmon	Select single month	
selsmon, month	[,nts1[,nts2]] ifile ofile	
sellonlatbox	Select a longitude/latitude box	
	n1,lon2,lat1,lat2 ifile ofile	
selindexbox	Select an index box	
selindexbox,id	x1,idx2,idy1,idy2 ifile ofile	

# Conditional selection

ifthen	If then
ifnotthen	If not then
<pre><operator> ifile1 ifile2 ofile</operator></pre>	
ifthenelse	If then else
ifthenelse ifile1 ifile2 ifile3 ofile	

ifthenc If then constant ifnotthenc If not then constant < operator >, c ifile ofile

Equal

Not equal

### Comparison

ne

le	Less equal
lt	Less than
ge	Greater equal
$_{ m gt}$	Greater than
<pre><operator> ifile1 ifile2 ofile</operator></pre>	
eqc	Equal constant
nec	Not equal constant
lec	Less equal constant
ltc	Less than constant
gec	Greater equal constant
gtc	Greater than constant
< operator >, c ifile ofile	

### Modification

setpartab	Set parameter table	
setpartab, table ifile ofile		
setcode	Set code number	
setcode, code ifile ofile		
setparam	Set parameter identifier	
setparam,param ifile ofile		
setname	Set variable name	
setname,name ifile ofile		
setlevel	Set level	
setlevel, level ifile ofile		
setltype	Set GRIB level type	
setltype, ltype ifile ofile		

setdate Set date setdate.date ifile ofile Set time of the day settime settime.time ifile ofile Set day setdav setday.day ifile ofile setmon Set month setmon.month ifile ofile setyear, year ifile ofile settunits Set time units settunits, units ifile ofile settaxis Set time axis settaxis, date, time[,inc] ifile ofile Set reference time setreftime setreftime, date, time [, units] ifile ofile Set calendar setcalendar setcalendar, calendar ifile ofile shifttime Shift time steps shifttime.sval ifile ofile chcode Change code number

chcode,oldcode,newcode[,...] ifile ofile Change parameter identifier chparam chparam,oldparam,newparam,... ifile ofile chname Change variable name chname.oldname,newname,... ifile ofile chlevel Change level chlevel.oldlev.newlev.... ifile ofile chlevelc Change level of one code chlevelc,code,oldlev,newlev ifile ofile chlevely Change level of one variable chlevelv,name,oldlev,newlev ifile ofile

setgrid Set grid setgrid.grid ifile ofile setgridtype Set grid type setgridtype.gridtype ifile ofile setgridarea Set grid cell area setgridarea, gridarea ifile ofile

setzaxis Set z-axis setzaxis.zaxis ifile ofile

Set global attribute setgatt, attname, attstring ifile ofile setgatts Set global attributes setgatts, attfile ifile ofile invertlat Invert latitudes

invertlat ifile ofile

invertlev

invertlev ifile ofile Mask regions maskregion maskregion, regions ifile ofile

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

Invert levels

setclonlatbox Set a longitude/latitude box to constant setclonlatbox.c.lon1.lon2.lat1.lat2 ifile ofile setcindexbox Set an index box to constant setcindexbox,c,idx1,idx2,idv1,idv2 ifile ofile

enlarge Enlarge fields enlarge, grid ifile ofile

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

# Syntax

cdo	[Options]	Operator1 [ $-$ Operator2 [ $-$ OperatorN ]	]
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# Options

Pull	
-a	Generate an absolute time axis
$-\mathbf{b} < nbits >$	Set the number of bits for the output precision
	(I8/I16/I32/F32/F64 for nc,nc2,nc4,nc4c;
	F32/F64 for srv,ext,ieg; 1-24 for grb,grb2)
	Add L or B for Little or Big endian byteorder
$-\mathbf{f} < format >$	Outputformat: grb,grb2,nc,nc2,nc4,nc4c,srv,ext,ieg
-g < grid >	Grid or file name
	Grid names: r <nx>x<ny>, n<n>, gme<ni></ni></n></ny></nx>
-h	Help information for the operators
-M	Indicate that the I/O streams have missing values
-m $<$ $missval >$	Set the default missing value (default: -9e+33)
-O	Overwrite existing output file, if checked
-R	Convert GRIB1 data from reduced to regular grid
-r	Generate a relative time axis
-s	Silent mode
	G

-h	Help information for the operators
-M	Indicate that the I/O streams have missing values
-m $<$ $missval >$	Set the default missing value (default: -9e+33)

-r	Generate a relative time axis
-s	Silent mode
-t	Set the parameter table name or file
	Predefined tables: echam4 echam5 mpiom1

	Predefined tables: echam4 echam5 mpion
-V	Print the version number
-V	Print extra details for some operators

-V	Print the version number Print extra details for some operators
-v	*
-z szip	SZIP compression of GRIB1 records

Information			
info	Dataset information listed by parameter identifier		
infon	Dataset information listed by parameter name		
map	Dataset information and simple map		

sinfo	Short information listed by parameter identifier		
sinfon	Short information listed by parameter name		
<pre><operator> ifiles</operator></pre>			
1.00	0 + 1 + 1 + 11 + 11		

diffn < operator > ifile1 ifile2

Show time information showtimestamp Show timestamp

<operator > ifile

							Ct.ti-ti-al and an arrangement of
	Arithm	etic				ens <stat> <operator> ifi</operator></stat>	Statistical values over an ensemble
	expr		Evaluate expressions			enspctl	Ensemble percentiles
ı	_	str ifile				enspctl,p ifile	-
	exprf		Evaluate expressions from	n script file			Ranked Histogram averaged over time
	exprf,fil	lename i	file ofile			ensrkhistsime	
	abs		Absolute value			ensroc	Ensemble Receiver Operating characteris
ì	int		Integer value				sfile ensfiles ofile
	nint		Nearest integer value				
Ì	pow		Power			enscrps	Ensemble CRPS and decomposition
	$\operatorname{sqr}$		Square			enscrps rille	ifiles ofilebase Ensemble Brier score
	$\mathbf{sqrt}$		Square root				ifiles ofilebase
	exp		Exponential				
	ln		Natural logarithm			fld < stat >	Statistical values over a field
	log10		Base 10 logarithm			<pre>&lt; operator &gt; ifi</pre>	
	sin		Sine			fldpctl	Field percentiles
	cos		Cosine			fldpctl,p ifile	ofile
	tan		Tangent			$\mathbf{zon} < stat >$	Zonal statistical values
	asin		Arc sine Arc cosine			<pre>&lt; operator &gt; ifi</pre>	ile ofile
	acos reci		Reciprocal value			zonpctl	Zonal percentiles
ŀ		tor > ifi	le ofile			zonpctl,p ifile	e ofile
L		01 / 111				mer < stat >	Meridional statistical values
	addc		Add a constant			<pre><operator> ifi</operator></pre>	ile ofile
	subc		Subtract a constant			merpctl	Meridional percentiles
	mulc		Multiply with a constant			merpctl,p ifil	e ofile
ı	divc		Divide by a constant			gridboy < etat >	Statistical values over grid boxes
L	< operat	tor>,c 13	file ofile			-	ny ifile ofile
	add		Add two fields				, •
	$\operatorname{sub}$		Subtract two fields			$\mathbf{vert} < stat >$	Vertical statistical values
	mul		Multiply two fields			<pre>&lt; operator &gt; ifi</pre>	ile ofile
	div		Divide two fields			timsel < stat >	Time range statistical values
	min		Minimum of two fields			<operator>,nse</operator>	ets[,noffset[,nskip]] ifile ofile
	max		Maximum of two fields			timaalnatl	Time range percentiles
	atan2		Arc tangent of two fields			timselpctl	ets[,noffset[,nskip]] ifile1 ifile2 ifile3
L	< operat	tor > 111	le1 ifile2 ofile				
	monade	d	Add monthly time series			run < stat >	Running statistical values
	monsub Subtract monthly time series			<pre>&lt; operator &gt; ,nts</pre>	ifile ofile		
	monmu		Multiply monthly time se			runpctl	Running percentiles
	mondiv		Divide monthly time serie	es		runpctl,p,nts it	
L	< operat	tor> ifi	le1 ifile2 ofile			tim <stat></stat>	Statistical values over all time steps
	ymonad	$^{\mathrm{dd}}$	Add multi-year monthly	time series		<pre>&lt; operator &gt; ifi</pre>	
Ì	ymonsi	ıb	Subtract multi-year mont	thly time series	3		
	ymonm		Multiply multi-year mont		3	timpctl	Time percentiles
	ymondi		Divide multi-year monthl	y time series		timpctl,p ifile	e1 ifile2 ifile3 ofile
	< operat	tor> ifi	le1 ifile2 ofile			hour < stat >	Hourly statistical values
	ydayad	d	Add multi-year daily time	e series		<pre><operator> if:</operator></pre>	ile ofile
Ì	ydaysu	b	Subtract multi-year daily	time series		hourpctl	Hourly percentiles
	ydaymı	ul	Multiply multi-year daily	time series			le1 ifile2 ifile3 ofile
	ydaydiy	v	Divide multi-year daily ti	ime series			
	< operat	tor > ifi	le1 ifile2 ofile			day < stat >	Daily statistical values
	muldpr	n	Multiply with days per m	nonth		<pre>&lt; operator &gt; ifi</pre>	ile ofile
	divdpm	1	Divide by days per month			daypctl	Daily percentiles
	muldpy	7	Multiply with days per ye			daypctl,p ifile	e1 ifile2 ifile3 ofile
	divdpy		Divide by days per year			mon <stat></stat>	Monthly statistical values
	< operat	tor > ifi	le ofile			<pre>&lt; operator &gt; ifi</pre>	
						monpctl	Monthly percentiles
						monpctl,p ifil	.e1 ifile2 ifile3 ofile
	Statisti	anl ····	1100			year <stat></stat>	Yearly statistical values
ì	otatist1	cai val	ues			<pre>&lt; operator &gt; ifi</pre>	· ·
		Availa	able statistical functions	< stat >	[	_	
		minimu	ım	min		yearpctl	Yearly percentiles
		maxim	um	max		yearpcti,p ifil	e1 ifile2 ifile3 ofile
		sum		sum		seas < stat >	Seasonal statistical values
		mean		mean		<pre><operator> if:</operator></pre>	ile ofile
		average		avg		seaspctl	Seasonal percentiles
		varianc	0	var	I	Loudpool	

var

variance

<operator> ifile ofile

standard deviation

Consecutive Timesteps

yhour<stat> Multi-year hourly statistical values

seaspctl,p ifile1 ifile2 ifile3 ofile

<operator> ifile ofile

yday < stat >	Multi-year daily statistical values	remapeta	Remap vertical hybrid level		
<pre><operator> if:</operator></pre>	ile ofile	remapeta, vct[,	oro] ifile ofile		
ydaypctl	Multi-year daily percentiles	ml2pl	Model to pressure level interpolation		
ydaypctl,pifi	le1 ifile2 ifile3 ofile	* /*	ml2pl,plevels ifile ofile		
ymon < stat >	Multi-year monthly statistical values	ml2hl	Model to height level interpolation		
<pre>&lt; operator &gt; if:</pre>		ml2hl,hlevels if	ile ofile		
ymonpctl	Multi-year monthly percentiles	intlevel	Linear level interpolation		
	ile1 ifile2 ifile3 ofile	intlevel, levels i	file ofile		
yseas <stat> <pre><pre>coperator&gt; if:</pre></pre></stat>	Multi-year seasonal statistical values	intlevel3d intlevelx3d <operator>,ico</operator>	Linear level interpolation onto a 3d vertical coordinalike intlevel3d but with extrapolation ordinate ifile1 ifile2 ofile		
	Multi-year seasonal percentiles ile1 ifile2 ifile3 ofile	inttime inttime,date,tin	Interpolation between time steps ne[,inc] ifile ofile		
ydrun < stat >	Multi-year daily running statistical values	intntime	Interpolation between time steps		
< operator >, nts	sifile ofile	intntime,n ifi	le ofile		
ydrunpctl,p,nt	Multi-year daily running percentiles		Interpolation between two years		
Correlation Transformation					
fldcor	Correlation in grid space	sp2gp	Spectral to gridpoint		
fldcor ifile1 i	file2 ofile	sp2gpl	Spectral to gridpoint (linear)		
timcor	Correlation over time	gp2sp	Gridpoint to spectral		

gp2spl

sp2sp

dv2uv

dv2uvl

uv2dv

uv2dvl

dv2ps

<operator> ifile ofile

sp2sp,trunc ifile ofile

< operator > ifile ofile

fldcor	Correlation in grid space
fldcor ifile1 i	file2 ofile
timcor	Correlation over time
timcor ifile1	ifile2 ofile

### Regression

regres	Regression	
regres ifile	ofile	
detrend	Detrend	
detrend ifile ofile		
trend	Trend	
trend ifile ofile1 ofile2		
subtrond	Subtract trand	

	Import/Export				
ч	import_binary	Import binary data sets			
	import_binary	ifile ofile			
		Import CM-SAF HDF5 files			
П	import_cmsaf i	file ofile			
import_amsr Import AMSR binary files					
	import_amsr ifile ofile				
	input	ASCII input			
J	input,grid ofile				
inputsrv SERVICE ASCII input					
П	inputext	EXTRA ASCII input			
	< operator > ofi	le			
	output	ASCII output			

Formatted output

Gridpoint to spectral (linear)

Divergence and vorticity to U and V wind

U and V wind to divergence and vorticity

Divergence and vorticity to U and V wind (linear)

U and V wind to divergence and vorticity (linear)

D and V to velocity potential and stream function

Spectral to spectral

# **EOFs**

ofile

	eof	Calculate EOFs in spatial or time space
	eoftime	Calculate EOFs in time space
	eofspatial	Calculate EOFs in spatial space
	eof3d	Calculate 3-Dimensional EOFs in time space
<pre><operator>,neofifile ofile1 ofile2</operator></pre>		
	eofcoeff	Calculate principal coefficients of EOFs
	enfoneff ifile1	ifile? obace

Bilinear interpolation

subtrend ifile1 ifile2 ifile3 ofile

# Interpolation remapbil

Tomapon	Difficult interpolation	- or p or c	
remapbic Bicubic interpolation		outputf, format,	nelem ifiles
remapdis	Distance-weighted average remapping	outputint	Integer output
remapnn	Nearest neighbor remapping	outputsrv	SERVICE ASCII output
remapcon	First order conservative remapping	outputext	EXTRA ASCII output
remapcon2	Second order conservative remapping	<pre><operator> ifi</operator></pre>	iles
remaplaf	Largest area fraction remapping		
<pre>&lt; operator &gt; ,gri</pre>	d ifile ofile		
genbil	Generate bilinear interpolation weights	Miscellaneous	8
0	. 0		G I PG I I I I I I I I G PIP
genbic	Generate bicubic interpolation weights	gradsdes1	Grads data descriptor file (version 1 Grib map)
gendis	Generate distance-weighted average remap weights	gradsdes2	GrADS data descriptor file (version 2 GRIB map)
gennn Generate nearest neighbor remap weights		<pre><operator> ifi</operator></pre>	ile
gencon	Generate 1st order conservative remap weights	bandpass	Bandpass filtering
gencon2	Generate 2nd order conservative remap weights		. 0
0		bandpass, fmin,	fmax ifile ofile
genlaf	Generate largest area fraction remap weights	lowpass	Lowpass filtering
<pre><operator>,grid ifile ofile</operator></pre>		lowpass,fmax i:	. 0

SCRIP grid remapping

remap, grid, weights ifile ofile

### Miscellaneous

output ifiles

outputf

ı	gradadesi	GITIES data descriptor me (version i Gitie map)		
	gradsdes2	GrADS data descriptor file (version 2 GRIB map)		
	<pre><operator> ifile</operator></pre>			
	bandpass	Bandpass filtering		
	bandpass,fmin,fmax ifile ofile			
	lowpass	Lowpass filtering		
J	lowpass,fmax ifile ofile			
	highpass	Highpass filtering		
	highpass,fmin ifile ofile			

smoothif if of ite  servals Sct list of old values to new values servals obtaineways() fifth of ite service Sct range to constant sertice.cmin.max.cc fifth of ite sertice? Sct range to constant sertice.cmin.max.cc fifth of ite sertice? Sct range to constant sertice.cmin.max.cc fifth of ite const. Create a constant field const. const.grid of ite const. Create a constant field const. const.grid of ite const. Create a constant field const. const.grid of ite const. Create a field with random numbers random. Create a field with random numbers random Broad field seed of ite stidation. July field of ite stroke of ite histcount Histogram count Histogram sum histman Histogram sum histman Histogram sum histman Histogram frequency  coperator > bounds if ite of ite strike Strong kind days index per time period strike if ite of ite strike Strong kind days index per time period stryin [if ite] of ite strike Strong kind days index per time period stryin [if ite] of ite strike Strong kind days index per time period stryin [if ite] of ite strike if ite of ite strike if ite of ite stryin Strong kind days index per time period stryin [if ite] of ite stryin Consecutive dry days index per time period stryin [if ite] of ite stryin [	cached   Title of the cached   Consecutive werd days index per time period estrainty of title of tile   cached   Consecutive werd days index per time period estrainty of title of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period estrainty of tile of tile   cached   Consecutive dry days index per time period   cached   Consecutive dry days index pe	cea.nd/				
concords   So point smoothing smoothing of point smoothing of the first servine   Sort interest   Sort interes	smooth) point smoothing smooth) fills of lie servale. Stile is of old values to now values servale. Stile is of old values to now values servale Stile is of old values to now values servale. Stile is of old values to now values servale servale. In this of lie servale of the transpit to constant servale crimin, mace of life of lie servale of transpit to constant deal const. Consta constant there to constant? servale of lie servale of lie const. Consta a constant field const. Const. of Contae a constant field const. Const. of Contae a constant field const. Const. of Contae a clied with random numbers random of Contae a field with random numbers	serious   Set let of old values to new values services   Set let of old values to new values services   Set let of old values to new values   Section   Set values   Set let of old values to new values   Section   Set values	gridarea	Grid cell area	eca_hd	Heating degree days per time period
smooth9 9 point smoothing smooth9 111s of 11s stevals. Set list of old values to new values setvals. Set list of old values to new values setvals. Set list of old values to new values setvals. Set list of old values to new values setvice. Set range to constant setrice_min_max_c; if life of ile setrice_Set range to constant setrice_min_max_c; if life of ile cea.def life of ile cea.def life of ile const. Create a local with random numbers random_create a field with random numbers random_create a field with random numbers random_create a field with random numbers random_grid_seed of ile stadam	smooth 9 point smoothing smooth of the stream between the section of the stream serving	smooth 9 point smoothing smooth 1511c of 151e setvals. Set list of old values to new values setvals Set list of old values to new values setvals Set list of old values to new values setvals Set list of old values to new values setvals Set range to constant settler comminimate if 151e of 151e settroc2 Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set range to constant others to constant? settler of Set very the time const Create a field with random numbers random Create a field with random numbers random of the settle of field settle of field settle of field settle of fie			$eca_hd[,T1[,T2]]$	ifile ofile
smooth9 if your smoothing smoothing servals Set helf of did values to now values servals down, sween, if if if if if if it is served. Set range to constant of set to constant of set constant set of served. Set served. Set s	smooth 9 point smoothing smoothing of of the servine of of the servine Set into of old values to new wholes setvals obbat hardwarful, if it is of the section Set in the service Set range to constant section. Set in the section of the section. Set in the section of the section	smooth 9 9 point smoothing smoothing foile servals State of old values to new values setvals obbandwarvall	<pre><operator> ifi</operator></pre>	le ofile	eca_hwdi	Heat wave duration index wrt mean of reference
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eca_cwdi[,nday[,1]] ffile1 ifile2 ofile  eca_cwfi  Cold-spell days index wrt 10th percentile of reference period eca_cwfi[,nday] ifile1 ifile2 ofile	eca_cwfi   Cold-spell days index wrt 10th percentile of reference period eca_cwfi   Cold-spell days index wrt 10th percentile of reference period eca_cwfi   Intra-period extreme temperature range eca_ctr   Intra-period extreme temperature range eca_ctr   Ifile2 of ile eca_fd   Frost days index per time period eca_fd ifile of ile eca_gsl   Growing season length index	eca_cwdi[,nday[,1]] ffile1 ifile2 ofile  eca_cwfi			eca_tx90p	Very warm days percent wrt 90th percentile of re
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eca_gsi Growing season length index		eca_gsl/,nday/,T/,fland]]] ifile1 ifile2 ofile	-	0		