CDO D C		File operation	ıs	Conditional s	selection	setgrid	Set grid
CDO Kefe	erence Card	copy	Copy datasets	ifthen	If then	Syntax	setgrid,grid ifile ofile Set grid type
		cat	Concatenate datasets	ifnotthen	If not then	Syntax	set grid type setgridtype,gridtype ifile ofile
	Climate Data Operators	Syntax	<pre><operator> ifiles ofile</operator></pre>	Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>		
	Version 1.0.6	replace	Replace variables	ifthenelse	If then else	setzaxis	Set zaxis
	December 2006	Syntax	replace ifile1 ifile2 ofile	Syntax	ifthenelse ifile1 ifile2 ifile3 ofile	Syntax	setzaxis,zaxis ifile ofile
			*			setgatt	Set global attribute
Uwe Schulzweida		merge	Merge datasets with different fields	ifthenc	If then constant	Syntax	setgatt, attname, attstring ifile ofile
Max-Planck-Institu	ute for Meteorology	mergetime	Merge datasets sorted by date and time	ifnotthenc	If not then constant	setgatts	Set global attributes
		Syntax	<pre><operator> ifiles ofile</operator></pre>	Syntax	< operator >, c ifile ofile	Syntax	setgatts,attfile ifile ofile
		splitcode	Split codes			invertlat	Invert latitude
		splitvar	Split variables			invertion	Invert longitude
Crontar		splitlevel	Split levels	Comparison		invertlatdes	Invert latitude description
Syntax		splitgrid	Split grids			invertiondes	Invert longitude description
cdo [Options]	Operators	splitzaxis	Split zaxis Split records	eq	Equal	invertlatdata	Invert latitude data
		splitrec Syntax	<pre><pre><pre><pre>coperator &gt; ifile oprefix</pre></pre></pre></pre>	ne	Not equal	invertlondata	Invert longitude data
			-	le	Less equal	Syntax	<pre><operator> ifile ofile</operator></pre>
Options		splithour	Split hours	lt	Less than	masklonlatbox	Mask a longitude/latitude box
-a (	Convert from a relative to an absolute time axis	splitday	Split days	ge	Greater equal	Syntax	masklonlatbox,lon1,lon2,lat1,lat2 ifile ofile
	Set the number of bits for the output precision	splitmon	Split months	gt	Greater than	maskindexbox	Mask an index box
	(32/64 for nc, nc2, srv, ext, ieg; 1 - 32 for grb)	splitseas	Split seasons		<pre><operator> ifile1 ifile2 ofile</operator></pre>	Syntax	maskindexbox,idx1,idx2,idy1,idy2 ifile ofile
	Output file format (grb, nc, nc2, srv, ext, ieg)	splityear	Split years	eqc	Equal constant	setclonlatbox	Set a longitude/latitude box to constant
	Grid name or file	Syntax	<pre><operator> ifile oprefix</operator></pre>	nec	Not equal constant	Syntax	setclonlatbox,c,lon1,lon2,lat1,lat2 ifile ofile
	Available grids: t <res>grid, r<nx>x<ny></ny></nx></res>			lec	Less equal constant	setcindexbox	Set an index box to constant
	Help information for the operators	Selection		ltc	Less then constant		setcindexbox, c, idx1, idx2, idy1, idy2 ifile ofil
	Set the default missing value (default: -9e+33)			gec	Greater equal constant	enlarge	Enlarge fields
	Convert GRIB data from reduced to regular grid	selcode	Select codes	gtc	Greater then constant	Syntax	enlarge,grid ifile ofile
	Convert from an absolute to a relative time axis	delcode	Delete codes	Syntax	< operator >, c ifile ofile	Syntax	
	Set the parameter table name or file	Syntax	<pre><operator>,codes ifile ofile</operator></pre>			setmissval	Set a new missing value
	Predefined tables: echam4 echam5 mpiom1	selvar	Select variables			Syntax	setmissval,miss ifile ofile
-V	Print the version number	delvar	Delete variables	Modification		setctomiss	Set constant to missing value
-v 1	Print extra details for some operators	Syntax	<pre><operator>,vars ifile ofile Select standard names</operator></pre>			setmisstoc	Set missing value to constant
		selstdname Syntax	selstdname,stdnames ifile ofile	setpartab	Set parameter table	Syntax	<pre><operator>,c ifile ofile</operator></pre>
		sellevel	Select levels	Syntax		setrtomiss	Set range to missing value
Operators		Syntax	sellevel, levels ifile ofile	setcode	Set code number	Syntax	setrtomiss,rmin,rmax ifile ofile
Information		selgrid	Select grids		setcode,code ifile ofile		
		Syntax	selgrid, grids ifile ofile	setvar	Set variable name	Arithmetic	
	Dataset information listed by code number	selgridname	Select grids by name		setvar,name ifile ofile Set level	_	
	Dataset information listed by variable name Dataset information and simple map	Syntax	selgridname, gridnames ifile ofile	setlevel	setlevel, level ifile ofile	expr	Evaluate expressions expr,instr ifile ofile
	<pre>coperator &gt; ifiles</pre>	selzaxis	Select zaxes		· · · · · · · · · · · · · · · · · · ·	exprf	Evaluate expressions from script file
		Syntax	selzaxis,zaxes ifile ofile	setdate	Set date	Syntax	exprf, filename ifile ofile
	Short dataset information listed by code number	selzaxisname	Select zaxes by name	Syntax			
	Short dataset information listed by variable name	Syntax	selzaxisname,zaxisnames ifile ofile	settime Syntax	Set time settime, time ifile ofile	abs	Absolute value
	<pre><operator> ifile</operator></pre>	seltabnum	Select parameter table numbers		Set day	int nint	Integer value
	Compare two datasets listed by code number	Syntax	seltabnum,tabnums ifile ofile	setday	setday,day ifile ofile	sqr	Nearest integer value Square
	Compare two datasets listed by variable name	selrec	Select records	setmon	Set month	sqrt	Square root
Syntax ·	<pre><operator> ifile1 ifile2</operator></pre>	Syntax	selrec, records ifile ofile		setmon,month ifile ofile	exp	Exponential
ncode	Number of codes	seltimestep	Select time steps	setyear	Set year	=   cxp ln	Natural logarithm
	Number of variables	Syntax	seltimestep,timesteps ifile ofile		setyear, year ifile ofile	log10	Base 10 logarithm
	Number of levels	seltime	Select times	settunits	Set time units	sin	Sine
5	Number of years	Syntax	seltime, times ifile ofile	Syntax		cos	Cosine
	Number of months	selhour	Select hours	settaxis	Set time axis	tan	Tangent
	Number of dates	Syntax	,		settaxis, date, time[,inc] ifile ofile	asin	Arc sine
	Number of time steps	selday	Select days	setreftime	Set reference time	acos	Arc cosine
	<pre><operator> ifile</operator></pre>	Syntax		Syntax	setreftime, date, time ifile ofile	atan	Arc tangent
	Show file format	selmon	Select months	setcalendar	Set calendar	Syntax	$<\!operator\!>\!$ ifile ofile
	Show codes	Syntax	selmon, months ifile ofile		setcalendar,calendar ifile ofile	addc	Add a constant
	Show variable names	selyear	Select years	shifttime	Shift time steps	subc	Subtract a constant
	Show standard names	Syntax	selyear, years ifile ofile	Syntax	shifttime,sval ifile ofile	mulc	Multiply with a constant
	Show levels	selseas	Select seasons	chcode	Change code number	divc	Divide by a constant
-	Show years	Syntax	selseas,seasons ifile ofile Select dates		chcode,oldcode,newcode[,] ifile ofile	Syntax	< operator >, c ifile ofile
	Show months			chvar	Change variable name	add	Add two fields
	Show dates	Syntax	seldate,date1[,date2] ifile ofile Select single month		chvar,ovar,nvar, ifile ofile	sub	Subtract two fields
	Show time steps	selsmon	selsmon,month[,nts1[,nts2]] ifile ofile	chlevel	Change level	mul	Multiply two fields
*	<pre><operator> ifile</operator></pre>	Syntax	, , , , , , , , , , , , , , , , , , , ,		chlevel,oldlev,newlev, ifile ofile	div	Divide two fields
	Variable description	sellonlatbox	Select a longitude/latitude box	chlevelc	Change level of one code	min	Minimum of two fields
	Grid description	Syntax	sellonlatbox, lon1, lon2, lat1, lat2 ifile ofile		chlevelc,code,oldlev,newlev ifile ofile	max	Maximum of two fields
4	Vertical coordinate table	selindexbox	Select an index box	chlevelv	Change level of one variable	atan2	Arc tangent of two fields
	<pre><operator> ifile</operator></pre>	Syntax	selindexbox,idx1,idx2,idy1,idy2 ifile ofile		chlevelv,var,oldlev,newlev ifile ofile		

		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>&lt; operator &gt; ,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>&lt; operator &gt; 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
zonmax zonsum zonmean zonavg zonvar	Zonal maximum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation < operator > ifile ofile	daysum daymean dayavg dayvar daystd Syntax	Daily sum Daily mean Daily average Daily variance Daily standard deviation < operator > ifile offile	yseasmean yseasavg yseasvar yseasstd Syntax yseaspctl	Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal variance Multi-year seasonal standard deviation <operator> ifile ofile Multi-year seasonal percentiles</operator>	Formatted I/ input Syntax	O ASCII input input,grid ofile
zonmax zonsum zonmean zonavg zonvar zonstd	Zonal maximum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation < operator > ifile ofile Zonal percentiles	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	Formatted I/ input Syntax inputsrv	ASCII input input,grid ofile SERVICE input
zonmax zonsum zonmean zonavg zonvar zonstd	Zonal maximum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation < operator > ifile ofile	daysum daymean dayavg dayvar daystd Syntax	Daily sum Daily mean Daily average Daily variance Daily standard deviation < operator > ifile offile	yseasmean yseasavg yseasvar yseasstd Syntax yseaspctl Syntax ydrunmin	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</operator>	Formatted I/ input Syntax inputsrv inputext	ASCII input input,grid ofile SERVICE input EXTRA input
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>
zonsum zonsum zonmean zonavg zonvar zonstd Syntax zonpctl Syntax mermin	Zonal maximum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation <operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile Meridional minimum</operator>	daysum daymean dayavg dayvar daystd Syntax  daypctl Syntax	Daily sum Daily mean Daily mean Daily average Daily variance Daily standard deviation <operator> ifile ofile Daily percentiles daypctl,p ifile1 ifile2 ifile3 ofile</operator>	yseasmean yseasavg yseasvar yseasstd Syntax yseaspctl Syntax ydrunmin	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 Multi-year daily running sum</operator>	Formatted I/ input Syntax inputsrv inputext Syntax output	ASCII input input,grid ofile SERVICE input EXTRA input <operator> ofile ASCII output</operator>
zonmax zonsum zonmean zonavg zonvar zonstd Syntax zonpctl Syntax mermin mermax	Zonal maximum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation <operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile  Meridional minimum Meridional maximum</operator>	daysum daymean dayavg dayvar daystd Syntax  daypctl Syntax  monmin	Daily sum Daily mean Daily average Daily variance Daily standard deviation <operator> ifile ofile  Daily percentiles daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum</operator>	yseasmean yseasavg yseasvar yseasstd Syntax  yseaspctl Syntax  ydrunmin ydrunmax	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 output Syntax	ASCII input input,grid ofile SERVICE input EXTRA input <operator> ofile ASCII output output ifiles</operator>
zonmax zonsum zonmean zonavg zonvar zonstd Syntax  zonpctl Syntax  mermin mermax mersum	Zonal maximum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation <operator>ifile ofile Zonal percentiles zonpctl,p ifile ofile Meridional minimum Meridional maximum Meridional sum</operator>	daysum daymean dayavg dayvar daystd Syntax  daypetl Syntax  monmin monmax monsum	Daily sum Daily mean Daily mean Daily average Daily variance Daily standard deviation <operator> ifile ofile Daily percentiles daypetl,p ifile1 ifile2 ifile3 ofile  Monthly minimum Monthly maximum Monthly sum</operator>	yseasmean yseasavg yseasvar yseasstd Syntax  yseaspctl Syntax  ydrunmin ydrunmax ydrunsum	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 Multi-year daily running sum</operator>	Formatted I/ input Syntax inputsrv inputext Syntax Output Syntax Output	ASCII input input,grid ofile SERVICE input EXTRA input <operator> ofile ASCII output output ifiles Formatted output</operator>
zonmax zonsum zonmean zonavg zonvar zonstd Syntax zonpctl Syntax mermin mermax mersum mermean	Zonal maximum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation <operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile  Meridional minimum Meridional maximum Meridional sum Meridional mean</operator>	daysum daymean dayavg dayvar daystd Syntax  daypetl Syntax  monmin monmax monsum monmean	Daily sum Daily mean Daily mean Daily average Daily variance Daily standard deviation <operator> ifile ofile  Daily percentiles daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum Monthly sum Monthly sum Monthly mean</operator>	yseasmean yseasavg yseasvar yseasstd Syntax yseaspctl Syntax ydrunmin ydrunmax ydrunsum ydrunsan	Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal variance Multi-year seasonal standard deviation <operator> ifile ofile  Multi-year seasonal percentiles yseaspetl,p ifile1 ifile2 ifile3 ofile  Multi-year daily running maximum Multi-year daily running sum Multi-year daily running mean</operator>	Formatted I/ input Syntax inputsrv inputext Syntax output Syntax outputf Syntax	ASCII input input,grid ofile SERVICE input EXTRA input <operator> ofile ASCII output output ifiles Formatted output outputf,format,nelem ifiles</operator>
zonmax zonsum zonmean zonavg zonvar zonstd Syntax zonpctl Syntax mermin mermax mersum mersum meravg	Zonal maximum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation <operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile  Meridional minimum Meridional maximum Meridional mean Meridional average</operator>	daysum daymean dayavg dayvar daystd Syntax  daypctl Syntax  monmin monmax monsum monsum monmean monavg	Daily sum Daily mean Daily mean Daily average Daily variance Daily standard deviation <operator> ifile ofile  Daily percentiles daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum Monthly maximum Monthly sum Monthly mean Monthly average</operator>	yseasmean yseasavg yseasvar yseasstd Syntax  yseaspctl Syntax  ydrunmin ydrunmax ydrunsum ydrunman ydrunmean ydrunavg	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 sum Multi-year daily running sum Multi-year daily running mean Multi-year daily running average</operator>	Formatted I/ input Syntax inputsrv inputext Syntax output Syntax output Syntax outputf Syntax outputf	ASCII input input,grid ofile SERVICE input EXTRA input <operator> ofile  ASCII output output ifiles Formatted output outputf,format,nelem ifiles Integer output</operator>
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zonmax zonsum zonmean zonavg zonvar zonstd Syntax  zonpctl Syntax  mermin mermax mersum merravg mervar merstd Syntax  vertmin vertmax vertsum vertmean vertavg vertvar	Zonal maximum Zonal sum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation <pre><operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile  Meridional minimum Meridional maximum Meridional sum Meridional average Meridional average Meridional variance Meridional standard deviation <operator> ifile ofile  Meridional percentiles merpctl,p ifile ofile  Vertical minimum Vertical maximum Vertical maximum Vertical average Vertical average Vertical variance Vertical average Vertical variance Vertical average Vertical variance</operator></operator></pre>	daysum daynean dayavg dayvar daystd  Syntax   daypetl Syntax  monmin monmax monsum monmean monavg monvar monstd Syntax   yearmin yearmax yearsum yearmean yearavg yearvar	Daily sum Daily mean Daily mean Daily average Daily variance Daily standard deviation <openitors <openitors="" daily="" daypctl,p="" deviation="" ifile="" ifile1="" ifile2="" ifile3="" maximum="" minimum="" monpctl,p="" monthly="" ofile="" percentiles="" standard="" sum="" td="" variance="" variance<="" werage="" yearly=""><td>yseasmean yseasavg yseasavg yseasvar yseasstd Syntax  ydrunmin ydrunmax ydrunsum ydrunavg ydrunvar ydrunstd Syntax  ydrunpctl Syntax  Regression  detrend Syntax  trend</td><td>Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal variance Multi-year seasonal standard deviation <operator> ifile ofile  Multi-year seasonal percentiles yseaspetl,p ifile1 ifile2 ifile3 ofile  Multi-year daily running minimum Multi-year daily running maximum Multi-year daily running mean Multi-year daily running average Multi-year daily running average Multi-year daily running standard deviation <operator>,nts ifile ofile  Multi-year daily running percentiles ydrunpctl,p,nts ifile1 ifile2 ifile3 ofile  Detrend detrend ifile ofile  Trend</operator></operator></td><td>Formatted I/ input Syntax inputsrv inputext Syntax output Syntax outputf Syntax outputint outputsrv outputext Syntax  Miscellaneous gradsdes1 gradsdes2 Syntax timsort</td><td>ASCII input input,grid ofile SERVICE input EXTRA input <operator> ofile ASCII output output ifiles Formatted output outputf,format,nelem ifiles Integer output SERVICE output EXTRA output <operator> ifiles  GrADS data descriptor file (version 1 GRIB map) <operator> ifile Sort over the time</operator></operator></operator></td></openitors>	yseasmean yseasavg yseasavg yseasvar yseasstd Syntax  ydrunmin ydrunmax ydrunsum ydrunavg ydrunvar ydrunstd Syntax  ydrunpctl Syntax  Regression  detrend Syntax  trend	Multi-year seasonal mean Multi-year seasonal average Multi-year seasonal variance Multi-year seasonal standard deviation <operator> ifile ofile  Multi-year seasonal percentiles yseaspetl,p ifile1 ifile2 ifile3 ofile  Multi-year daily running minimum Multi-year daily running maximum Multi-year daily running mean Multi-year daily running average Multi-year daily running average Multi-year daily running standard deviation <operator>,nts ifile ofile  Multi-year daily running percentiles ydrunpctl,p,nts ifile1 ifile2 ifile3 ofile  Detrend detrend ifile ofile  Trend</operator></operator>	Formatted I/ input Syntax inputsrv inputext Syntax output Syntax outputf Syntax outputint outputsrv outputext Syntax  Miscellaneous gradsdes1 gradsdes2 Syntax timsort	ASCII input input,grid ofile SERVICE input EXTRA input <operator> ofile ASCII output output ifiles Formatted output outputf,format,nelem ifiles Integer output SERVICE output EXTRA output <operator> ifiles  GrADS data descriptor file (version 1 GRIB map) <operator> ifile Sort over the time</operator></operator></operator>
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zonmax zonsum zonnean zonavg zonvar zonstd Syntax  zonpctl Syntax  mermin mermax mersum mermean meravg mervar merstd Syntax  vertum vertmax vertsum vertmean vertavg vertvar vertstd Syntax  selmin selmax selsum	Zonal maximum Zonal sum Zonal sum Zonal mean Zonal average Zonal variance Zonal standard deviation <operator> ifile ofile Zonal percentiles zonpctl.p ifile ofile  Meridional minimum Meridional maximum Meridional sum Meridional sum Meridional average Meridional variance Meridional standard deviation <operator> ifile ofile  Wertical minimum Vertical maximum Vertical maximum Vertical maximum Vertical sum Vertical average Vertical variance Vertical standard deviation <operator> ifile ofile  Time range minimum Time range maximum Time range sum</operator></operator></operator>	daysum daymean dayavg dayvar daystd  Syntax   daypctl  Syntax  monmin monmax monsum monava monvar monstd Syntax   yearmin yearmax yearsum yearavay yearsud Syntax  yearstd Syntax	Daily sum Daily mean Daily mean Daily average Daily variance Daily standard deviation <operator> ifile ofile  Daily percentiles daypetl,p ifile1 ifile2 ifile3 ofile  Monthly minimum Monthly sum Monthly sum Monthly surance Monthly variance Monthly standard deviation <operator> ifile ofile  Monthly percentiles monpetl,p ifile1 ifile2 ifile3 ofile  Yearly minimum Yearly maximum Yearly sum Yearly sum Yearly sum Yearly variance Yearly variance Yearly standard deviation <operator> ifile ofile  Yearly maximum Yearly sum Yearly sum Yearly sum Yearly average Yearly variance Yearly standard deviation <operator> ifile ofile  Yearly percentiles</operator></operator></operator></operator>	yseasmean yseasavg yseasvar yseasvar yseasstd Syntax  ydrunmin ydrunmax ydrunsum ydrunwar ydrunstd Syntax   Regression detrend Syntax  trend Syntax  subtrend 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 Multi-year daily running sum Multi-year daily running average Multi-year daily running variance Multi-year daily running standard deviation <operator>,nts ifile ofile  Multi-year daily running percentiles ydrunpctl,p,nts ifile1 ifile2 ifile3 ofile  Detrend detrend ifile ofile  Trend trend ifile ofile1 ofile2  Subtract trend subtrend ifile1 ifile2 ifile3 ofile</operator></operator>	Formatted I/ input Syntax inputsrv inputext Syntax  output Syntax  outputf Syntax  outputint outputsrv outputext Syntax  Miscellaneous gradsdes1 gradsdes2 Syntax  timsort Syntax  const Syntax  random Syntax	ASCII input input,grid ofile SERVICE input EXTRA input <pre> <pre> <pre> <pre> SERVICE input EXTRA input <pre> <pre> <pre> <pre> <pre> ASCII output output ifiles Formatted output outputf,format,nelem ifiles Integer output SERVICE output EXTRA output <pre> <pre> <pre> <pre> <pre> GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) </pre> <pre> &lt;</pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre></pre>
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mastrfu	Mass stream function		
Syntax	mastrfu ifile ofile	eca_rx5day	Highest five-day precipitation amount per time per
hi Syntax	Humidity index (C) hi ifile1 ifile2 ifile3 ofile	Syntax	eca_rx5day[,x] ifile ofile
		eca_sdii Syntax	Simple daily intensity index per time period eca_sdii ifile ofile
wct Syntax	Windchill temperature (C) wct ifile1 ifile2 ofile	eca_strwin	
Syllocat	WOO IIIIOI IIIIOZ OIIIO	Syntax	Strong wind days index per time period  eca_strwin[,v] ifile ofile
		eca_su	Summer days index per time period
ECA indices		Syntax	eca_su[,T] ifile ofile
eca_cdd	Consecutive dry days index per time period	eca_tg10p	Cold days percent wrt 10th percentile of reference
Syntax	eca_cdd ifile ofile	Syntax	eca_tg10p ifile1 ifile2 ofile
eca_cfd Syntax	Consecutive frost days index per time period eca_cfd ifile ofile	eca_tg90p	Warm days percent wrt 90th percentile of reference
		Syntax	eca_tg90p ifile1 ifile2 ofile
eca_csu Syntax	Consecutive summer days index per time period eca_csu[,T] ifile ofile	eca_tn10p	Cold nights percent wrt 10th percentile of reference
eca_cwd	Consecutive wet days index per time period	Syntax	eca_tn10p ifile1 ifile2 ofile
Syntax	eca_cwd ifile ofile	eca_tn90p	Warm nights percent wrt 90th percentile of referen
eca_cwdi	Cold wave duration index wrt mean of reference pe	Syntax	eca_tn90p ifile1 ifile2 ofile
Syntax	eca_cwdi[,nday[,T]] ifile1 ifile2 ofile	eca_tr	Tropical nights index per time period
eca_cwfi	Cold-spell days index wrt 10th percentile of referen	Syntax ee period eca_tx10p	eca_tr[,T] ifile ofile
Syntax	eca_cwfi[,nday] ifile1 ifile2 ofile	eca_tx10p Syntax	Very cold days percent wrt 10th percentile of reference ca_tx10p ifile1 ifile2 ofile
eca_etr	Intra-period extreme temperature range	eca_tx90p	Very warm days percent wrt 90th percentile of references
Syntax	eca_etr ifile1 ifile2 ofile	Syntax	eca_tx90p ifile1 ifile2 ofile
eca_fd	Frost days index per time period		•
Syntax	eca_fd ifile ofile		
eca_fdns	Frost days where no snow index per time period		
Syntax	eca_fdns ifile1 ifile2 ofile		
eca_gsl Syntax	Growing season length index		
v	eca_gsl[,nday[,T]] ifile ofile		
eca_hd Syntax	Heating degree days per time period eca_hd[,T1[,T2]] ifile ofile		
eca_hwdi	Heat wave duration index wrt mean of reference pe	wied	
Syntax	eca_hwdi[,nday[,T]] ifile1 ifile2 ofile	ariod	
eca_hwfi	Warm spell days index wrt 90th percentile of reference	ence period	
Syntax	eca_hwfi[,nday] ifile1 ifile2 ofile	,	
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 perio	d	
Syntax	eca_r20mm ifile ofile		
eca_r75p Syntax	Moderate wet days wrt 75th percentile of reference eca_r75p ifile1 ifile2 ofile	period	
	Precipitation percent due to R75p days		
eca_r75ptot 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 peri	od	
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	e period	
Syntax	eca_r99p ifile1 ifile2 ofile		
eca_r99ptot	Precipitation percent due to R99p days		
Syntax	eca_r99ptot ifile1 ifile2 ofile		
eca_rr1 Syntax	Wet days index per time period eca_rr1 ifile ofile		
eca_rx1day	Highest one day precipitation amount per time per	iod	
Syntax	eca_rxlday[,mode] ifile ofile	100	
	V I/		