CDO D	Samana Cand	File operation	ns	Conditional	selection	setgrid	Set grid
CDO Rei	ference Card	copy	Copy datasets	ifthen	If then	Syntax	setgrid,grid ifile ofile Set grid type
		cat	Concatenate datasets	ifnotthen	If not then	Syntax	setgridtype, gridtype ifile ofile
	Climate Data Operators	Syntax	<pre><operator> ifiles ofile</operator></pre>	Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>		
	Version 1.0.7	replace	Replace variables	ifthenelse	If then else	setzaxis	Set zaxis
	January 2007	Syntax	replace ifile1 ifile2 ofile	Syntax		Syntax	setzaxis,zaxis ifile ofile
			*			setgatt	Set global attribute
Uwe Schulzweida	ì	merge	Merge datasets with different fields	ifthenc	If then constant	Syntax	setgatt, attname, attstring ifile ofile
Max-Planck-Inst	itute 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>&lt; operator &gt; ifile oprefix</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
-9	Convert from a relative to an absolute time axis	splitday	Split days	ge	Greater equal	Syntax	masklonlatbox,lon1,lon2,lat1,lat2 ifile ofil
-b < nbits >	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 rears		<pre><operator> ifile1 ifile2 ofile</operator></pre>	Syntax	maskindexbox,idx1,idx2,idy1,idy2 ifile ofil
$-\mathbf{f} < format >$	Output file format (grb, nc, nc2, srv, ext, ieg)	splityear Syntax	Split years <pre><operator> ifile oprefix</operator></pre>	eqc	Equal constant	setclonlatbox	Set a longitude/latitude box to constant
-g < grid >	Grid name or file	Symax	<pre><pre>&lt; operator &gt; fifte opteffx</pre></pre>	nec	Not equal constant	Syntax	setclonlatbox,c,lon1,lon2,lat1,lat2 ifile ofil
3 0	Available grids: t <res>grid, r<nx>x<ny></ny></nx></res>			lec	Less equal constant	setcindexbox	Set an index box to constant
-h	Help information for the operators	Selection		ltc	Less then constant		setcindexbox,c,idx1,idx2,idy1,idy2 ifile ofil
-m $<$ $missval >$	Set the default missing value (default: -9e+33)		Calactica des	gec gtc	Greater equal constant Greater then constant	enlarge	Enlarge fields
-R	Convert GRIB data from reduced to regular grid	selcode	Select codes	-	<pre><pre><coperator>, c ifile ofile</coperator></pre></pre>	Syntax	enlarge,grid ifile ofile
-r	Convert from an absolute to a relative time axis	delcode	Delete codes <pre><operator>,codes ifile ofile</operator></pre>	Symax	<pre><pre>coperator &gt;,c iffile offile</pre></pre>		
-t	Set the parameter table name or file	Syntax	Select variables	_		setmissval	Set a new missing value
	Predefined tables: echam4 echam5 mpiom1	delvar	Delete variables			Syntax	setmissval,miss ifile ofile
-V	Print the version number	Syntax	<pre>&lt; operator &gt; , vars ifile ofile</pre>	Modification		setctomiss	Set constant to missing value
-v	Print extra details for some operators	selstdname	Select standard names		10.	setmisstoc	Set missing value to constant
		Syntax	selstdname,stdnames ifile ofile	setpartab Syntax	Set parameter table setpartab, table ifile ofile	Syntax	<pre><operator>,c ifile ofile Set range to missing value</operator></pre>
0		sellevel	Select levels	setcode	Set code number	Syntax	setrtomiss,rmin,rmax ifile ofile
Operators		Syntax	sellevel, levels ifile ofile		setcode,code ifile ofile	Dyntax	seti tomiss,imii,imax iiiie oiiie
Information		selgrid	Select grids	setvar	Set variable name		
info	Dataset information listed by code number	Syntax	selgrid,grids ifile ofile		setvar,name ifile ofile	Arithmetic	
infov	Dataset information listed by code number  Dataset information listed by variable name	selgridname	Select grids by name	setlevel	Set level	expr	Evaluate expressions
map	Dataset information and simple map	Syntax	selgridname,gridnames ifile ofile		setlevel, level ifile ofile	Syntax	expr,instr ifile ofile
_	<pre><operator> ifiles</operator></pre>	selzaxis	Select zaxes	setdate	Set date	exprf	Evaluate expressions from script file
sinfo	Short dataset information listed by code number	Syntax	selzaxis,zaxes ifile ofile	Syntax		Syntax	exprf,filename ifile ofile
sinfov	Short dataset information listed by code number	selzaxisname	Select zaxes by name	settime	Set time	abs	Absolute value
	<pre><operator> ifile</operator></pre>	Syntax	selzaxisname,zaxisnames ifile ofile	Syntax		int	Integer value
diff	Compare two datasets listed by code number	seltabnum	Select parameter table numbers	setday	Set day	nint	Nearest integer value
diffv	Compare two datasets listed by variable name	Syntax	seltabnum,tabnums ifile ofile		setday,day ifile ofile	sqr	Square
Syntax	<pre><ompare <operator="" by="" datasets="" listed="" name="" two="" variable=""> ifile1 ifile2</ompare></pre>	selrec Syntax	Select records selrec,records ifile ofile	setmon	Set month	sqrt	Square root
	*		,	Syntax	setmon, month ifile ofile	exp	Exponential
ncode	Number of codes	seltimestep	Select time steps	setyear	Set year	ln	Natural logarithm
nvar	Number of variables Number of levels	Syntax	seltimestep,timesteps ifile ofile		setyear, year ifile ofile	log10	Base 10 logarithm
nlevel nyear	Number of levels Number of vears	seltime	Select times seltime.times ifile ofile	settunits	Set time units	sin	Sine
nmon	Number of years Number of months	Syntax	Select hours	Syntax	· · · · · · · · · · · · · · · · · · ·	cos	Cosine
ndate	Number of dates	Syntax		settaxis	Set time axis	tan asin	Tangent Arc sine
ntime	Number of time steps	selday	Select days	V	settaxis,date,time[,inc] ifile ofile	asın	Arc sine Arc cosine
		Syntax	V		Set reference time	acos	Arc cosine Arc tangent
showformat	Show file format	selmon	Select months	setcalendar	setreftime, date, time ifile ofile Set calendar	Syntax	<pre></pre> <pre><operator> ifile ofile</operator></pre>
showcode	Show one format Show codes	Syntax	selmon, months ifile ofile		set calendar setcalendar, calendar ifile ofile		-
showcode	Show codes Show variable names	selyear	Select years	shifttime	Shift time steps	addc	Add a constant Subtract a constant
showstdname	Show standard names	Syntax	selyear, years ifile ofile		shifttime,sval ifile ofile	subc mulc	Multiply with a constant
showlevel	Show levels	selseas	Select seasons		,	divc	Divide by a constant
	Show years	Syntax	selseas,seasons ifile ofile	chcode	Change code number  chcode,oldcode,newcode[,] ifile ofile	Syntax	<pre><pre>&lt; operator &gt;, c ifile ofile</pre></pre>
$_{ m showyear}$	Lan	seldate	Select dates		Change variable name		
showyear showmon	Show months		14-+- 4-+-1[ 4-+-0] : 6:2 6:2 -	chvar	chvar,ovar,nvar ifile ofile	add	Add two fields
	Show dates	Syntax	seldate,date1[,date2] ifile ofile	Crentari		anh	
showmon showdate showtime	Show dates Show time steps	selsmon	Select single month			sub	Subtract two fields Multiply two fields
showmon showdate	Show dates			chlevel	Change level	mul	Multiply two fields
showmon showdate showtime	Show dates Show time steps	selsmon	Select single month	chlevel Syntax	Change level chlevel,oldlev,newlev, ifile ofile	mul div	Multiply two fields Divide two fields
showmon showdate showtime Syntax	Show dates Show time steps <operator> ifile</operator>	selsmon Syntax	Select single month selsmon, month[,nts1[,nts2]] ifile ofile	chlevel Syntax chlevelc	Change level chlevel,oldlev,newlev, ifile ofile Change level of one code	mul div min	Multiply two fields Divide two fields Minimum of two fields
showmon showdate showtime Syntax vardes	Show dates Show time steps <operator>ifile Variable description</operator>	selsmon Syntax sellonlatbox	Select single month selsmon,month[.nts1[.nts2]] ifile ofile Select a longitude/latitude box	chlevel Syntax chlevelc	Change level chlevel,oldlev,newlev, ifile ofile	mul div	Multiply two fields Divide two fields

		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	I .	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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ifile ofile  Yearly percentiles</operator></operator></operator></operator>	yseasmean yseasavg yseasvar yseasvar yseasstd Syntax  yseaspctl Syntax  ydrunmin ydrunmax ydrunsum ydrunavg ydrunsutd Syntax  ydrunyetl Syntax  Regression detrend Syntax  trend Syntax  subtrend	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 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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		