CE	CDO Reference Card				
		Climate Data Opera Version 1 November 2			
	Schulzweida -Planck-Insti	itute for Meteorology			
Syn	ntax	Operators			
Opt	tions				
-a		Convert from a relative to an absolute time			
-b	< nbits >	Set the number of bits for the output precisi			
		(32/64 for nc, nc2, srv, ext, ieg; 1 - 32 for gr			
	< format >	Output file format (grb, nc, nc2, srv, ext, ieg			
-g ·	< grid >	Grid name or file			
		Available grids: t <res>grid, r<nx>x<ny< td=""></ny<></nx></res>			
-h		Help information for the operators			
-m	< missval >	Set the default missing value (default: -9e+3			

	copy	Copy datasets
	cat	Concatenate datasets
rators	Syntax	$<\!operator\!>$ ifiles ofile
1.0.4	replace	Replace variables
r 2006	Syntax	replace ifile1 ifile2 ofile
	merge	Merge datasets with different fields
	mergetime	Merge datasets sorted by date and time
	Syntax	< operator > ifiles ofile
	splitcode	Split codes
	splitvar	Split variables
	splitlevel	Split levels
	splitgrid	Split grids
	splitzaxis	Split zaxis
	splitrec	Split records
	Syntax	< operator > ifile oprefix
	splithour	Split hours
	splitday	Split days
e axis	splitmon	Split months
ision	splitseas	Split seasons
grb)	splityear	Split years
ieg)	Syntax	$<\!operator\!>$ ifile oprefix
NY>		
+33)	Selection	
ar grid		
e axis	selcode	Select codes
	delcode	Delete codes
1	Syntax	<pre><operator>,codes ifile ofile</operator></pre>
	selvar	Select variables
	delvar	Delete variables
	Syntax	< operator >, vars ifile ofile

File operations

	( ) , , , , , , , , , , , , , , , , , ,	G ,	
$-\mathbf{f} < format >$	Output file format (grb, nc, nc2, srv, ext, ieg)	Syntax	<pre><operator> ifile oprefix</operator></pre>
-g < grid >	Grid name or file		
	Available grids: t <res>grid, r<nx>x<ny></ny></nx></res>		
-h	Help information for the operators		
-m < missval >	Set the default missing value (default: -9e+33)	Selection	
-R	Convert GRIB data from reduced to regular grid	Selection	
-r	Convert from an absolute to a relative time axis	selcode	Select codes
-t	Set the parameter table name or file	delcode	Delete codes
C (table)	Predefined tables: echam4 echam5 mpiom1	Syntax	<pre><operator>,codes ifile ofile</operator></pre>
-V	Print the version number	selvar	Select variables
-v	Print extra details for some operators	delvar	Delete variables
- •	Time extra details for some operators	Syntax	<pre><operator>,vars ifile ofile</operator></pre>
		selstdname	Select standard names
Onanatana		Syntax	selstdname.stdnames ifile ofile
Operators		sellevel	Select levels
Information		Syntax	sellevel, levels ifile ofile
		selgrid	Select grids
info	Dataset information listed by code number	Syntax	selgrid, grids ifile ofile
infov	Dataset information listed by variable name	selgridname	Select grids by name
map	Dataset information and simple map	Syntax	selgridname, gridnames ifile ofile
Syntax	< operator >  ifiles	selzaxis	Select zaxes
sinfo	Short dataset information listed by code number		selzaxis.zaxes ifile ofile
sinfov	Short dataset information listed by variable name	Syntax	
Syntax	<pre><operator> ifile</operator></pre>	selzaxisname	Select zaxes by name
	^	Syntax	selzaxisname,zaxisnames ifile ofile
diff	Compare two datasets listed by code number	seltabnum	Select parameter table numbers
diffv	Compare two datasets listed by variable name	Syntax	seltabnum,tabnums ifile ofile
Syntax	<pre><operator> ifile1 ifile2</operator></pre>	selrec	Select records
ncode	Number of codes	Syntax	selrec, records ifile ofile
nvar	Number of variables	seltimestep	Select time steps
nlevel	Number of levels	Syntax	seltimestep, timesteps ifile ofile
nyear	Number of years	seltime	Select times
nmon	Number of months	Syntax	seltime, times ifile ofile
ndate	Number of dates	selhour	Select hours
ntime	Number of time steps	Syntax	selhour, hours ifile ofile
Syntax	<pre><operator> ifile</operator></pre>	seldav	Select days
showcode	Show codes	Syntax	selday,days ifile ofile
showcode	Show variable names	selmon	Select months
showstdname	Show standard names	Syntax	selmon, months ifile ofile
showlevel	Show levels	selvear	Select years
		Syntax	selyear, years ifile ofile
showyear showmon	Show years Show months	selseas	Select seasons
showdate	Show dates	Syntax	selseas.seasons ifile ofile
		seldate	
showtime	Show time steps		Select dates
Syntax	<pre><operator> ifile</operator></pre>	Syntax	seldate,date1[,date2] ifile ofile
vardes	Variable description	sellonlatbox	Select a longitude/latitude box
griddes	Grid description	Syntax	sellonlatbox, lon1, lon2, lat1, lat2 ifile ofile
vct	Vertical coordinate table	selindexbox	Select an index box
Syntax	<pre><operator> ifile</operator></pre>	Syntax	selindexbox,idx1,idx2,idy1,idy2 ifile ofile
	-		

Conditional s	election	setgrid	Set grid
ifthen	If then	Syntax	setgrid,grid ifile ofile
ifnotthen	If not then	setgridtype	Set grid type
Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>	Syntax	setgridtype,gridtype ifile ofile
ifthenelse	If then else	setzaxis	Set zaxis
Syntax	ifthenelse ifile1 ifile2 ifile3 ofile	Syntax	setzaxis,zaxis ifile ofile
ifthenc	If then constant	setgatt	Set global attribute
ifnotthenc	If not then constant	Syntax	setgatt,attname,attstring ifile ofile
Syntax	< operator >, c ifile ofile	setgatts Syntax	Set global attributes setgatts,attfile ifile ofile
			• ,
		invertlat invertlon	Invert latitude Invert longitude
C		invertion	Invert latitude description
Comparison		invertiondes	Invert longitude description
eq	Equal	invertlatdata	Invert latitude data
ne	Not equal	invertlondata	Invert longitude data
le	Less equal	Syntax	< operator > ifile ofile
lt	Less than	masklonlatbox	Mask a longitude/latitude box
ge gt	Greater equal Greater than	Syntax	${f mask lon latbox}, lon 1, lon 2, lat 1, lat 2 {f ifile}$ of ile
Syntax	<pre><pre><operator> ifile1 ifile2 ofile</operator></pre></pre>	maskindexbox	Mask an index box
	Equal constant	Syntax	maskindexbox,idx1,idx2,idy1,idy2 ifile ofile
eqc nec	Not equal constant	setclonlatbox	Set a longitude/latitude box to constant
lec	Less equal constant	Syntax	setclonlatbox,c,lon1,lon2,lat1,lat2 ifile ofile
ltc	Less then constant	setcindexbox	Set an index box to constant
gec	Greater equal constant	Syntax	setcindexbox,c,idx1,idx2,idy1,idy2 ifile ofile
gtc	Greater then constant	enlarge	Enlarge fields
Syntax	< operator >, c ifile ofile	Syntax	enlarge,grid ifile ofile
		setmissval	Set a new missing value
		Syntax	setmissval,miss ifile ofile
Modification		setctomiss	Set constant to missing value
setpartab	Set parameter table	setmisstoc Syntax	Set missing value to constant <pre><operator>,c ifile ofile</operator></pre>
Syntax	set parameter table setpartab,table ifile ofile	setrtomiss	Set range to missing value
setcode	Set code number	Syntax	setrtomiss,rmin,rmax ifile ofile
Syntax	setcode,code ifile ofile	V	, ,
setvar	Set variable name		
	Det variable name		
Syntax	setvar,name ifile ofile	Arithmetic	
setlevel	setvar,name ifile ofile Set level	expr	Evaluate expressions
setlevel Syntax	setvar,name ifile ofile Set level setlevel,level ifile ofile	expr Syntax	expr,instr ifile ofile
Syntax Syntax	setvar,name ifile ofile Set level setlevel,level ifile ofile Set date	expr Syntax exprf	expr,instr ifile ofile Evaluate expressions from script file
setlevel Syntax setdate Syntax	setvar,name ifile ofile Set level setlevel,level ifile ofile Set date setdate,date ifile ofile	expr Syntax exprf Syntax	expr,instr ifile ofile Evaluate expressions from script file exprf,filename ifile ofile
setlevel Syntax setdate Syntax settime	setvar,name ifile ofile Set level setlevel,level ifile ofile Set date setdate,date ifile ofile Set time	expr Syntax exprf Syntax abs	expr,instr ifile ofile  Evaluate expressions from script file exprf,filename ifile ofile  Absolute value
setlevel Syntax setdate Syntax settime Syntax	setvar,name ifile ofile Set level setlevel,level ifile ofile Set date setdate,date ifile ofile Set time settime,time ifile ofile	expr Syntax exprf Syntax	expr,instr ifile ofile Evaluate expressions from script file exprf,filename ifile ofile Absolute value Integer value
setlevel Syntax setdate Syntax settime	setvar,name ifile ofile Set level setlevel,level ifile ofile Set date setdate,date ifile ofile Set time	expr Syntax exprf Syntax abs int	expr,instr ifile ofile  Evaluate expressions from script file exprf,filename ifile ofile  Absolute value
setlevel Syntax setdate Syntax settime Syntax setday Syntax setday Syntax	setvar,name ifile ofile Set level setlevel,level ifile ofile Set date setdate,date ifile ofile Set time settime,time ifile ofile Set day setday,day ifile ofile Set month	expr Syntax exprf Syntax abs int nint sqr sqrt	expr,instr ifile ofile  Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square
setlevel Syntax  setdate Syntax settime Syntax setday Syntax setmon Syntax	setvar,name ifile ofile Set level setlevel,level ifile ofile Set date setdate,date ifile ofile Set time settime,time ifile ofile Set day setday,day ifile ofile Set month setmon,month ifile ofile	expr Syntax exprf Syntax  abs int nint sqr sqrt exp	expr,instr ifile ofile  Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square Exponential
setlevel Syntax  setdate Syntax  settime Syntax  setday Syntax  setday Syntax  setmon Syntax	setvar,name ifile ofile  Set level setlevel,level ifile ofile  Set date setdate,date ifile ofile  Set time settime,time ifile ofile  Set day setday,day ifile ofile  Set month setmon,month ifile ofile  Set year	expr Syntax  exprf Syntax  abs int nint sqr sqrt expp ln	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square Square root Exponential Natural logarithm
setlevel Syntax setdate Syntax settime Syntax setday Syntax setday Syntax setmon Syntax setyear Syntax	setvar,name ifile ofile  Set level setlevel,level ifile ofile  Set date setdate,date ifile ofile  Set time settime,time ifile ofile  Set day setday,day ifile ofile  Set month setmon,month ifile ofile  Set year setyear,year ifile ofile	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm
setlevel Syntax  setdate Syntax  settime Syntax  setday Syntax  setday Syntax  setmon Syntax  setyear Syntax  settunits	setvar,name ifile ofile Set level setlevel,level ifile ofile Set date setdate,date ifile ofile Set time settime,time ifile ofile Set day setday,day ifile ofile Set month setmon,month ifile ofile Set year setyear,year ifile ofile Set time units	expr Syntax  exprf Syntax  abs int nint sqr sqrt expp ln	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square Square root Exponential Natural logarithm
setlevel Syntax setdate Syntax settime Syntax setday Syntax setday Syntax setmon Syntax setyear Syntax	setvar,name ifile ofile  Set level setlevel,level ifile ofile  Set date setdate,date ifile ofile  Set time settime,time ifile ofile  Set day setday,day ifile ofile  Set month setmon,month ifile ofile  Set year setyear,year ifile ofile	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square Square root Exponential Natural logarithm Base 10 logarithm Sine
setlevel Syntax  setdate Syntax settime Syntax setday Syntax setmon Syntax setyear Syntax setyear Syntax	setvar,name ifile ofile Set level setlevel,level ifile ofile Set date setdate,date ifile ofile Set time settime,time ifile ofile Set day setday,day ifile ofile Set month setmon,month ifile ofile Set year setyear,year ifile ofile Set time units settunits,umits ifile ofile	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine
setlevel Syntax  setdate Syntax  settime Syntax  setday Syntax  setmon Syntax  setyear Syntax  settunits Syntax  settunits Syntax  settaxis Syntax  settexis Syntax	setvar,name ifile ofile Set level setlevel,level ifile ofile Set date setdate,date ifile ofile Set time settime,time ifile ofile Set day setday,day ifile ofile Set month setmon,month ifile ofile Set year setyear,vear ifile ofile Set time units settunits,units ifile ofile Set time axis settaxis,date,time[,inc] ifile ofile Set reference time	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos tan asin acos	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine
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setlevel Syntax  setdate Syntax  settime Syntax  setday Syntax  setday Syntax  settmon Syntax  setyear Syntax  setyear Syntax  settunits Syntax  settaxis Syntax  settaxis settaxis syntax  settetime Syntax  setcalendar	setvar,name ifile ofile  Set level setlevel,level ifile ofile  Set date setdate,date ifile ofile  Set time settime,time ifile ofile  Set day setday,day ifile ofile  Set month setmon,month ifile ofile  Set year setvear,year ifile ofile  Set time units settunits,units ifile ofile  Set terference time setreference time setrefitme,date,time ifile ofile  Set calendar	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos tan asin acos atan Syntax	expr,instr ifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc tangent <-operator> ifile ofile
setlevel Syntax  setdate Syntax  settime Syntax  setday Syntax  setday Syntax  settmon Syntax  settyear Syntax  settyear Syntax  settunits Syntax  settaxis Syntax  settaxis setreftime Syntax  setcalendar Syntax	setvar,name ifile ofile  Set level setlevel,level ifile ofile  Set date setdate,date ifile ofile  Set time settime,time ifile ofile  Set day setday,day ifile ofile  Set month setmon,month ifile ofile  Set year setvear,year ifile ofile  Set time units settunits,units ifile ofile  Set trime axis settaxis,date,time[,inc] ifile ofile  Set reference time setreftime,date,time ifile ofile  Set calendar setcalendar,calendar ifile ofile	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos tan asin acos atan Syntax	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc tangent <operator> ifile ofile  Add a constant</operator>
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setlevel Syntax  setdate Syntax  settime Syntax  setday Syntax  setday Syntax  setwon Syntax  setyear Syntax  settunits Syntax  settunits Syntax  settaxis Syntax  settaxis Syntax  setreftime Syntax  setcalendar Syntax  shifttime Syntax	setvar,name ifile ofile Set level setlevel,level ifile ofile Set date setdate,date ifile ofile Set time settime,time ifile ofile Set day setday,day ifile ofile Set month setmon,month ifile ofile Set year setvear,vear ifile ofile Set time units settunits,units ifile ofile Set time axis settaxis,date,time[,inc] ifile ofile Set reference time setreftime,date,time ifile ofile Set calendar setcalendar,calendar ifile ofile Shift time steps shifttime,sval ifile ofile	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos tan asin acos atan  Syntax	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc tangent <operator> ifile ofile  Add a constant Subtract a constant Multiply with a constant</operator>
setlevel Syntax  setdate Syntax settime Syntax setday Syntax setmon Syntax setyear Syntax settunits Syntax settunits Syntax settaxis Syntax setreftime Syntax setcalendar Syntax setcalendar Syntax shifttime Syntax	setvar,name ifile ofile  Set level setlevel,level ifile ofile  Set date setdate,date ifile ofile  Set time settime,time ifile ofile  Set day setday,day ifile ofile  Set month setmon,month ifile ofile  Set year setyear,year ifile ofile  Set time units settunits,units ifile ofile  Set time axis settaxis,date,time[,inc] ifile ofile  Set reference time setreftime,date,time ifile ofile  Set calendar setcalendar,calendar ifile ofile  Shift time steps shifttime,sval ifile ofile  Change code number	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos tan asin acos atan Syntax	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc tangent Arc tangent Arda a constant Subtract a constant
setlevel Syntax  setdate Syntax  settime Syntax  setday Syntax  setmon Syntax  setyear Syntax  settunits Syntax  settunits Syntax  settaxis Syntax  settaxis Syntax  settatime Syntax  setcalendar Syntax  setcalendar Syntax  shifttime Syntax  chcode Syntax	setvar,name ifile ofile Set level setlevel,level ifile ofile Set date setdate,date ifile ofile Set time settime,time ifile ofile Set day setday,day ifile ofile Set month setmon,month ifile ofile Set year setvear,vear ifile ofile Set time units settunits,units ifile ofile Set time axis settaxis,date,time[,inc] ifile ofile Set reference time setreftime,date,time ifile ofile Set calendar setcalendar,calendar ifile ofile Shift time steps shifttime,sval ifile ofile	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos tan asin acos atan Syntax	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc cosine Arc tangent <operator> ifile ofile  Add a constant Subtract a constant Multiply with a constant Divide by a constant <operator>,c ifile ofile</operator></operator>
setlevel Syntax  setdate Syntax settime Syntax setday Syntax setmon Syntax setyear Syntax settunits Syntax settunits Syntax settaxis Syntax setreftime Syntax setcalendar Syntax setcalendar Syntax shifttime Syntax	setvar,name ifile ofile  Set level setlevel,level ifile ofile  Set date setdate,date ifile ofile  Set time settime,time ifile ofile  Set day setday,day ifile ofile  Set month setmon,month ifile ofile  Set year setyear,year ifile ofile  Set time units settunits,units ifile ofile  Set time axis settaxis,date,time[,inc] ifile ofile  Set reference time setreftime,date,time ifile ofile  Set calendar setcalendar,calendar ifile ofile  Shift time steps shifttime,sval ifile ofile  Change code number chcode,oldcode,newcode[,] ifile ofile	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos tan asin acos atan Syntax	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc tangent <operator> ifile ofile  Add a constant Subtract a constant Multiply with a constant Divide by a constant</operator>
setlevel Syntax  setdate Syntax  settime Syntax  setday Syntax  setday Syntax  settonin Syntax  settyear Syntax  settyear Syntax  settenits Syntax  settaxis Syntax  settaxis settaxis syntax  settettime Syntax  setcalendar Syntax  setcalendar Syntax  setcalendar Syntax  chcode Syntax  chcode Chyntax	setvar,name ifile ofile  Set level setlevel,level ifile ofile  Set date setdate,date ifile ofile  Set time settime,time ifile ofile  Set day setday,day ifile ofile  Set month setmon,month ifile ofile  Set year setyear,year ifile ofile  Set time units settunits,units ifile ofile  Set time axis settaxis,date,time[,inc] ifile ofile  Set reference time setreftime,date,time ifile ofile  Set calendar setcalendar,calendar ifile ofile  Shift time steps shifttime,sval ifile ofile  Change code number chcode,oldcode,newcode[,] ifile ofile  Change variable name chvar,ovar,nvar, ifile ofile  Change level	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos tan asin acos atan Syntax  addc subc mulc divc Syntax	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc tangent <operator> ifile ofile  Add a constant Subtract a constant Multiply with a constant Divide by a constant <operator>,c ifile ofile  Add two fields</operator></operator>
setlevel Syntax  setdate Syntax  settime Syntax  setday Syntax  setday Syntax  setmon Syntax  setyear Syntax  settunits Syntax  settenits Syntax  settaxis Syntax  settaxis Syntax  settatime Syntax  setcalendar Syntax  shifttime Syntax  chcode Syntax  chcode Syntax  chevel Syntax	setvar,name ifile ofile  Set level setlevel,level ifile ofile  Set date setdate,date ifile ofile  Set time settime,time ifile ofile  Set day setday,day ifile ofile  Set month setmon,month ifile ofile  Set year setyear,year ifile ofile  Set time units settunits,units ifile ofile  Set time axis settaxis,date,time[inc] ifile ofile  Set reference time setreftime,date,time ifile ofile  Set calendar setcalendar,calendar ifile ofile  Shift time steps shifttime,sval ifile ofile  Change code number chcode,oldcode,newcode[] ifile ofile  Change variable name chvar,ovar,nvar, ifile ofile  Change level chlevel,oldlev,newlev, ifile ofile	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos tan asin acos atan Syntax  addc subc mulc divc Syntax	expr,instrifile ofile  Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc tangent <operator> ifile ofile  Add a constant Subtract a constant Multiply with a constant Divide by a constant <operator>,c ifile ofile  Add two fields Subtract two fields Multiply two fields Divide two fields Divide two fields Divide two fields</operator></operator>
setlevel Syntax  setdate Syntax  settime Syntax  setday Syntax  setday Syntax  setday Syntax  settenon Syntax  settyear Syntax  settenits Syntax  settaxis Syntax  settaxis setratime Syntax  setcalendar Syntax  setcalendar Syntax  chcode Syntax  chcode Syntax  chcode Syntax  chevel Syntax  chlevelc	setvar,name ifile ofile  Set level setlevel,level ifile ofile  Set date setdate,date ifile ofile  Set time settime,time ifile ofile  Set day setday,day ifile ofile  Set month setmon,month ifile ofile  Set year setyear,year ifile ofile  Set time units settunits,units ifile ofile  Set time axis settaxis,date,time[,inc] ifile ofile  Set reference time setreftime,date,time ifile ofile  Set calendar setcalendar,calendar ifile ofile  Shift time steps shifttime,sval ifile ofile  Change code number chcode,oldcode,newcode[,] ifile ofile  Change variable name chvar,ovar,nvar, ifile ofile  Change level chlevel,oldlev,newlev, ifile ofile	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos tan asin acos atan Syntax  addc subc mulc divc Syntax  add sub mul div min	expr,instrifile ofile  Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc tangent <operator> ifile ofile  Add a constant Subtract a constant Multiply with a constant Divide by a constant <operator>,c ifile ofile  Add two fields Subtract two fields Multiply two fields Divide two fields Minimum of two fields</operator></operator>
setlevel Syntax  setdate Syntax  settime Syntax  setday Syntax  setday Syntax  setvear Syntax  setvear Syntax  settunits Syntax  settaxis Syntax  settaclendar Syntax  setcalendar Syntax  shifttime Syntax  chcode Syntax  chvar Syntax  chlevel Syntax  chlevelc Syntax	setvar,name ifile ofile  Set level setlevel,level ifile ofile  Set date setdate,date ifile ofile  Set time settime,time ifile ofile  Set day setday,day ifile ofile  Set month setmon,month ifile ofile  Set year setyear,year ifile ofile  Set time units settunits,units ifile ofile  Set time axis settaxis,date,time[,inc] ifile ofile  Set reference time setreftime,date,time ifile ofile  Set calendar setcalendar realendar ifile ofile  Shift time steps shifttime,sval ifile ofile  Change code number chcode,oldcode,newcode[,] ifile ofile  Change level chlevel,oldlev,newlev, ifile ofile  Change level chlevel,oldlev,newlev, ifile ofile  Change level of one code chlevelc,code,oldlev,newlev ifile ofile	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos tan asin acos atan Syntax  addc subc mulc div min max	expr,instrifile ofile Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc tangent Arc sine Arc tangent Square root ifile ofile  Add a constant Subtract a constant Multiply with a constant Divide by a constant Square root Add two fields Subtract two fields Multiply two fields Divide two fields Minimum of two fields Maximum of two fields Maximum of two fields
setlevel Syntax  setdate Syntax  settime Syntax  setday Syntax  setday Syntax  setvear Syntax  setvear Syntax  settaxis Syntax  settaxis Syntax  settaxis syntax  settatime Syntax  setcalendar Syntax  shifttime Syntax  chcode Syntax  chcode Syntax  chlevel Syntax  chlevelc	setvar,name ifile ofile  Set level setlevel,level ifile ofile  Set date setdate,date ifile ofile  Set time settime,time ifile ofile  Set day setday,day ifile ofile  Set month setmon,month ifile ofile  Set year setyear,year ifile ofile  Set time units settunits,units ifile ofile  Set time axis settaxis,date,time[,inc] ifile ofile  Set reference time setreftime,date,time ifile ofile  Set calendar setcalendar,calendar ifile ofile  Shift time steps shifttime,sval ifile ofile  Change code number chcode,oldcode,newcode[,] ifile ofile  Change variable name chvar,ovar,nvar, ifile ofile  Change level chlevel,oldlev,newlev, ifile ofile	expr Syntax  exprf Syntax  abs int nint sqr sqrt exp ln log10 sin cos tan asin acos atan Syntax  addc subc mulc divc Syntax  add sub mul div min	expr,instrifile ofile  Evaluate expressions from script file exprf,filename ifile ofile  Absolute value Integer value Nearest integer value Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc tangent <operator> ifile ofile  Add a constant Subtract a constant Multiply with a constant Divide by a constant <operator>,c ifile ofile  Add two fields Subtract two fields Multiply two fields Divide two fields Minimum of two fields</operator></operator>

ymonadd	Add multi-year monthly time average	runmin	Running minimum	ydaymin	Multi-year daily minimum	inttime	Time interpolation
ymonsub	Subtract multi-year monthly time average	runmax	Running maximum	ydaymax	Multi-year daily maximum	Syntax	inttime,date,time[,inc] ifile ofile
ymonmul	Multiply multi-year monthly time average	runsum	Running sum	ydaysum	Multi-year daily sum	intntime	Time interpolation
ymondiv	Divide multi-year monthly time average	runmean	Running mean	ydaymean	Multi-year daily mean	Syntax	intntime, n ifile ofile
Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>	runavg	Running average	ydayavg	Multi-year daily average	intyear	Year interpolation
muldpm	Multiply with days per month	runstd	Running standard deviation	ydaystd	Multi-year daily standard deviation		intyear, years ifile1 ifile2 oprefix
divdpm	Divide by days per month	Syntax	< operator >, nts ifile ofile	Syntax	< operator > ifile ofile	Syntax	moyear, years iffice fiffice opicits
muldpy	Multiply with days per year	runpctl	Running percentiles	ydaypctl	Multi-year daily percentiles	7	
divdpy	Divide by days per year	Syntax	runpctl,p,nts ifile1 ifile2 ifile3 ofile	Syntax	ydaypctl,p ifile1 ifile2 ifile3 ofile	Transformation	on
Syntax	<pre><operator> ifile ofile</operator></pre>	timmin	Time minimum	veno o manim	Multi-year monthly minimum	sp2gp	Spectral to gridpoint
		timmax	Time maximum	ymonmin ymonmax	Multi-year monthly maximum	sp2gpl	Spectral to gridpoint linear
		timsum	Time sum	ymonsum	Multi-year monthly sum	gp2sp	Gridpoint to spectral
		timmean	Time mean	ymonmean	Multi-year monthly mean	gp2spl	Gridpoint to spectral linear
Statistical va	llues	timavg	Time average	ymonavg	Multi-year monthly average	Syntax	<pre><operator> ifile ofile</operator></pre>
ensmin	Ensemble minimum	timstd	Time standard deviation	ymonstd	Multi-year monthly standard deviation	sp2sp	Spectral to spectral
ensmax	Ensemble maximum	Syntax	< operator > ifile ofile	Syntax	<pre><operator> ifile ofile</operator></pre>	Syntax	${ m sp2sp}, trunc \; { m ifile} \; { m ofile}$
enssum	Ensemble sum	timpctl	Time percentiles	ymonpctl	Multi-year monthly percentiles	uv2dv	U and V wind to divergence and vorticity
ensmean	Ensemble mean	Syntax	timpctl,p ifile1 ifile2 ifile3 ofile	Syntax	ymonpctl,p ifile1 ifile2 ifile3 ofile	dv2uv	Divergence and vorticity to U and V wind
ensavg	Ensemble average		* '		* * *	Syntax	<pre><operator> ifile ofile</operator></pre>
ensstd	Ensemble standard deviation	hourmin	Hourly minimum	yseasmin	Multi-year seasonal minimum		-
ensvar	Ensemble variance	hourmax	Hourly maximum Hourly sum	yseasmax	Multi-year seasonal maximum Multi-year seasonal sum		
Syntax		hoursum hourmean	Hourly sum Hourly mean	yseassum	Multi-year seasonal sum Multi-year seasonal mean	Formatted I/	0
enspctl	Ensemble percentiles	houravg	Hourly average	yseasmean yseasavg	Multi-year seasonal average	input	ASCII input
Syntax	enspctl,p ifiles ofile	hourstd	Hourly standard deviation	yseasavg	Multi-year seasonal standard deviation	Syntax	input,grid ofile
fldmin	Field minimum	Syntax	<pre><pre>coperator &gt; ifile ofile</pre></pre>		<pre><operator> ifile ofile</operator></pre>	inputsrv	SERVICE input
fldmax	Field maximum		^			inputext	EXTRA input
fldsum	Field sum	hourpctl	Hourly percentiles	yseaspctl	Multi-year seasonal percentiles	Syntax	<pre><operator> ofile</operator></pre>
fldmean	Field mean	Syntax	$\mathbf{hourpctl}, p$ ifile1 ifile2 ifile3 ofile	Syntax	yseaspctl,p ifile1 ifile2 ifile3 ofile	output	ASCII output
fldavg	Field average	daymin	Daily minimum	ydrunmin	Multi-year daily running minimum	Syntax	output ifiles
fldstd	Field standard deviation	daymax	Daily maximum	ydrunmax	Multi-year daily running maximum	outputf	Formatted output
fldvar	Field variance	daysum	Daily sum	ydrunsum	Multi-year daily running sum	Syntax	outputf,format,nelem ifiles
	<pre><operator> ifile ofile</operator></pre>	daymean	Daily mean	ydrunmean	Multi-year daily running mean	outputint	Integer output
fldpctl	Field percentiles	dayavg	Daily average	ydrunavg	Multi-year daily running average	outputsrv	SERVICE output
Syntax		daystd	Daily standard deviation	ydrunstd	Multi-year daily running standard deviation	outputext	EXTRA output
zonmin	Zonal minimum	Syntax	< operator > ifile ofile	Syntax	< operator >, nts ifile ofile	Syntax	<pre><operator> ifiles</operator></pre>
zonmax	Zonal maximum	daypctl	Daily percentiles	ydrunpctl	Multi-year daily running percentiles	5,1100.2	Coperator y IIIIos
zonsum	Zonal sum	daypctl Syntax	Daily percentiles daypctl,p ifile1 ifile2 ifile3 ofile		Multi-year daily running percentiles ydrunpctl,p,nts ifile ofile		
zonsum zonmean	Zonal sum Zonal mean	Syntax	daypctl,p ifile1 ifile2 ifile3 ofile			Miscellaneous	
zonsum zonmean zonavg	Zonal sum Zonal mean Zonal average	Syntax	daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum	Syntax			
zonsum zonmean zonavg zonstd	Zonal sum Zonal mean Zonal average Zonal standard deviation	Syntax	daypctl,p ifile1 ifile2 ifile3 ofile			Miscellaneous gradsdes1 gradsdes2	S  GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map)
zonsum zonmean zonavg zonstd zonvar	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance	Syntax monmin monmax	daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum  Monthly maximum	Syntax		Miscellaneous gradsdes1	s GrADS data descriptor file (version 1 GRIB map)
zonsum zonmean zonavg zonstd zonvar	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance < operator > ifile ofile	Syntax monmin monmax monsum	daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum  Monthly maximum  Monthly sum	Syntax  Regression  detrend	ydrunpctl,p,nts ifile ofile	Miscellaneous gradsdes1 gradsdes2	S  GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map)
zonsum zonmean zonavg zonstd zonvar Syntax zonpctl	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance < operator > ifile ofile Zonal percentiles	Syntax  monmin monmax monsum monmean	daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum  Monthly maximum  Monthly sum  Monthly mean	Syntax  Regression  detrend Syntax	ydrunpctl,p,nts ifile ofile  Detrend detrend ifile ofile	Miscellaneous gradsdes1 gradsdes2 Syntax	S  GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) <operator> ifile</operator>
zonsum zonmean zonavg zonstd zonvar Syntax zonpctl Syntax	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance < operator > ifile ofile Zonal percentiles zonpctl,p ifile ofile	Syntax  monmin monmax monsum monmean monavg	daypetl,p ifile1 ifile2 ifile3 ofile  Monthly minimum Monthly maximum Monthly sum Monthly mean Monthly average	Regression detrend Syntax trend	ydrunpctl,p,nts ifile ofile  Detrend detrend ifile ofile  Trend	Miscellaneous gradsdes1 gradsdes2 Syntax timsort Syntax	GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) <operator> ifile Sort over the time timsort ifile ofile</operator>
zonsum zonmean zonavg zonstd zonvar Syntax zonpctl Syntax mermin	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance < operator > ifile ofile Zonal percentiles zonpctl,p ifile ofile Meridional minimum	Syntax  monmin monmax monsum monmean monavg monstd  Syntax	Monthly minimum Monthly maximum Monthly sum Monthly sum Monthly average Monthly average Monthly standard deviation	Regression  detrend Syntax  trend Syntax	ydrunpctl,p,nts ifile ofile  Detrend detrend ifile ofile  Trend trend ifile ofile1 ofile2	Miscellaneous gradsdes1 gradsdes2 Syntax timsort Syntax const	GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) <operator> ifile Sort over the time timsort ifile ofile Create a constant field</operator>
zonsum zonmean zonavg zonstd zonvar Syntax zonpctl Syntax mermin mermax	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance < operator > ifile ofile Zonal percentiles zonpctl,p ifile ofile Meridional minimum Meridional maximum	monmin monmax monsum monmean monavg monstd	daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum Monthly maximum Monthly sum Monthly mean Monthly average Monthly standard deviation <pre>operator&gt; ifile ofile</pre>	Regression detrend Syntax trend Syntax subtrend	ydrunpctl,p,nts ifile ofile    Detrend   detrend ifile ofile     Trend   trend ifile ofile1 ofile2     Subtract trend	Miscellaneous gradsdes1 gradsdes2 Syntax timsort Syntax const Syntax	GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) <operator> ifile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile</operator>
zonsum zonmean zonavg zonstd zonvar Syntax zonpctl Syntax mermin mermax mersum	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance <operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile Meridional minimum Meridional maximum Meridional sum</operator>	Syntax  monmin monmax monsum monmean monavg monstd Syntax  monpctl Syntax	daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum Monthly maximum Monthly sum Monthly mean Monthly average Monthly standard deviation <operator> ifile ofile  Monthly percentiles monpctl,p ifile1 ifile2 ifile3 ofile</operator>	Regression detrend Syntax trend Syntax subtrend	ydrunpctl,p,nts ifile ofile  Detrend detrend ifile ofile  Trend trend ifile ofile1 ofile2	Miscellaneous gradsdes1 gradsdes2 Syntax timsort Syntax const Syntax random	GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) <operator> ifile  Sort over the time timsort ifile ofile  Create a constant field const,const,grid ofile  Create a field with random values</operator>
zonsum zonmean zonavg zonstd zonvar Syntax zonpctl Syntax mermin mermax mersum mermean	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance <operator>ifile ofile Zonal percentiles zonpctl,p ifile ofile  Meridional minimum Meridional sum Meridional mean</operator>	Syntax  monmin monmax monsum monmavg monstd Syntax  monpetl Syntax  yearmin	daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum Monthly maximum Monthly sum Monthly mean Monthly average Monthly standard deviation <pre><operator> ifile ofile</operator></pre> Monthly percentiles monpctl,p ifile1 ifile2 ifile3 ofile  Yearly minimum	Regression detrend Syntax trend Syntax subtrend	ydrunpctl,p,nts ifile ofile    Detrend   detrend ifile ofile     Trend   trend ifile ofile1 ofile2     Subtract trend	Miscellaneous gradsdes1 gradsdes2 Syntax timsort Syntax const Syntax random Syntax	GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) <operator> ifile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile Create a field with random values random,grid ofile</operator>
zonsum zonmean zonavg zonstd zonvar Syntax zonpctl Syntax mermin mermax mersum mermean meravg	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance <operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile  Meridional minimum Meridional maximum Meridional sum Meridional mean Meridional average</operator>	Syntax  monmin monmax monsum monmean monavg monstd Syntax  monpetl Syntax  yearmin yearmax	daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum Monthly maximum Monthly sum Monthly wean Monthly average Monthly standard deviation <operator> ifile ofile  Monthly percentiles monpctl,p ifile1 ifile2 ifile3 ofile  Yearly minimum Yearly maximum</operator>	Syntax  Regression  detrend Syntax  trend Syntax  subtrend Syntax	ydrunpctl,p,nts ifile ofile  Detrend detrend ifile ofile  Trend trend ifile ofile1 ofile2  Subtract trend subtrend ifile1 ifile2 ifile3 ofile	Miscellaneous gradsdes1 gradsdes2 Syntax timsort Syntax const Syntax random Syntax vardup	GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) <operator> ifile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile Create a field with random values random,grid ofile Duplicate variables</operator>
zonsum zonmean zonavg zonstd zonvar Syntax  zonpctl Syntax  mermin mermax mersum mermean meravg merstd	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance <operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile  Meridional minimum Meridional maximum Meridional sum Meridional average Meridional standard deviation</operator>	Syntax  monmin monmax monsum monmean monavg monstd Syntax  monpctl Syntax  yearmin yearmax yearsum	daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum Monthly maximum Monthly sum Monthly average Monthly average Monthly standard deviation < operator > ifile ofile  Monthly percentiles monpctl,p ifile1 ifile2 ifile3 ofile  Yearly minimum Yearly maximum Yearly sum	Regression  detrend Syntax  trend Syntax  subtrend Syntax  Interpolation	ydrunpctl,p,nts ifile ofile  Detrend detrend ifile ofile  Trend trend ifile ofile1 ofile2  Subtract trend subtrend ifile1 ifile2 ifile3 ofile	Miscellaneous gradsdes1 gradsdes2 Syntax timsort Syntax const Syntax random Syntax vardup Syntax	GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) <operator> ifile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile Create a field with random values random,grid ofile Duplicate variables vardup ifile ofile</operator>
zonsum zonmean zonavg zonstd zonvar Syntax  zonpctl Syntax  mermin mermax mersum merrean meravg merstd mervar	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance <operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile  Meridional minimum Meridional maximum Meridional sum Meridional mean Meridional average</operator>	Syntax  monmin monmax monsum monmean monavg monstd Syntax  monpctl Syntax  yearmin yearmax yearsum yearsum yearmean	daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum Monthly maximum Monthly sum Monthly wean Monthly average Monthly standard deviation <operator> ifile ofile  Monthly percentiles monpctl,p ifile1 ifile2 ifile3 ofile  Yearly minimum Yearly maximum</operator>	Regression detrend Syntax trend Syntax subtrend Syntax Interpolation remapbil	ydrunpctl,p,nts ifile ofile    Detrend   detrend ifile ofile     Trend   trend ifile ofile1 ofile2     Subtract trend   subtrend ifile1 ifile2 ifile3 ofile     Bilinear interpolation	Miscellaneous gradsdes1 gradsdes2 Syntax timsort Syntax const Syntax random Syntax vardup Syntax Syntax	GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) <operator> ifile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile Create a field with random values random,grid ofile Duplicate variables vardup ifile ofile Multiply variables</operator>
zonsum zonmean zonavg zonstd zonvar Syntax  zonpctl Syntax  mermin mermax mersum mermean meravg merstd	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance <operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile  Meridional minimum Meridional maximum Meridional sum Meridional warage Meridional variance</operator>	Syntax  monmin monmax monsum monmean monavg monstd Syntax  monpctl Syntax  yearmin yearmax yearsum	Monthly minimum Monthly maximum Monthly sum Monthly sum Monthly average Monthly average Monthly standard deviation <operator> ifile ofile  Monthly percentiles monpetl,p ifile1 ifile2 ifile3 ofile  Yearly minimum Yearly maximum Yearly sum Yearly mean</operator>	Regression  detrend Syntax  trend Syntax  subtrend Syntax  Interpolation  remapbil remapbic	ydrunpctl,p,nts ifile ofile    Detrend   detrend ifile ofile     Trend   trend ifile ofile1 ofile2     Subtract trend   subtrend ifile1 ifile2 ifile3 ofile     Bilinear interpolation   Bicubic interpolation	Miscellaneous gradsdes1 gradsdes2 Syntax timsort Syntax const Syntax random Syntax vardup Syntax vardup Syntax varmul Syntax	GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) <operator> ifile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile Create a field with random values random,grid ofile Duplicate variables vardup ifile ofile Multiply variables varmul,nnul ifile ofile</operator>
zonsum zonmean zonavg zonstd zonvar Syntax  zonpctl Syntax  mermin mermax mersum mermean meravg merstd mervar Syntax	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance <operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile  Meridional minimum Meridional maximum Meridional sum Meridional average Meridional standard deviation Meridional variance <operator> ifile ofile</operator></operator>	Syntax  monmin monmax monsum monmean monavg monstd Syntax  monpetl Syntax  yearmin yearmax yearsum yearmean yearavg	daypctl,p ifile1 ifile2 ifile3 ofile  Monthly minimum Monthly maximum Monthly sum Monthly werage Monthly average Monthly standard deviation <operator> ifile ofile  Monthly percentiles monpctl,p ifile1 ifile2 ifile3 ofile  Yearly minimum Yearly maximum Yearly mean Yearly mean Yearly werage</operator>	Regression detrend Syntax  trend Syntax  subtrend Syntax  Interpolation remapbil remapbic remapcon	ydrunpctl,p,nts ifile ofile  Detrend detrend ifile ofile  Trend trend ifile ofile1 ofile2  Subtract trend subtrend ifile1 ifile2 ifile3 ofile  Bilinear interpolation Bicubic interpolation Conservative remapping	Miscellaneous gradsdes1 gradsdes2 Syntax timsort Syntax const Syntax random Syntax vardup Syntax varmul Syntax rotuvb	GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) <operator> ifile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile Create a field with random values random,grid ofile Duplicate variables vardup ifile ofile Multiply variables varmul,nmul ifile ofile Backward rotation</operator>
zonsum zonmean zonavg zonstd zonvar Syntax  zonpctl Syntax  mermin mermax mersum mermean meravg merstd mervar Syntax  merpctl Syntax	Zonal sum Zonal mean Zonal average Zonal standard deviation Zonal variance <operator> ifile ofile Zonal percentiles zonpctl,p ifile ofile  Meridional minimum Meridional maximum Meridional sum Meridional average Meridional standard deviation Meridional variance <operator> ifile ofile  Meridional percentiles merpctl,p ifile ofile</operator></operator>	Syntax  monmin monmax monsum monmean monavg monstd Syntax  monpetl Syntax  yearmin yearmax yearsum yearavg yearavg yearstd Syntax	Monthly minimum Monthly maximum Monthly maximum Monthly sum Monthly werage Monthly standard deviation <operator> ifile ofile Monthly percentiles monpetl,p ifile1 ifile2 ifile3 ofile  Yearly minimum Yearly maximum Yearly maximum Yearly werage Yearly standard deviation <operator> ifile ofile</operator></operator>	Regression  detrend Syntax  trend Syntax  subtrend Syntax  Interpolation remapbil remapbic remapcon remapdis	ydrunpctl,p,nts ifile ofile  Detrend detrend ifile ofile  Trend trend ifile ofile1  Subtract trend subtrend ifile1 ifile2 ifile3 ofile  Bilinear interpolation Bicubic interpolation Conservative remapping Distance-weighted averaging	Miscellaneous gradsdes1 gradsdes2 Syntax timsort Syntax const Syntax random Syntax vardup Syntax varmul Syntax rotuvb	GrADS data descriptor file (version 1 GRIB map) GrADS data descriptor file (version 2 GRIB map) <operator> ifile Sort over the time timsort ifile ofile Create a constant field const,const,grid ofile Create a field with random values random,grid ofile Duplicate variables vardup ifile ofile Multiply variables varmul,nnul ifile ofile</operator>
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