CDO Reference Card

Climate Data Operator Version 2.4.1 May 2024

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https://code.mpimet.mpg.de/projects/cdo

Syntax

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

-a	Generate an absolute time axis		
-b < nbits >	Set the number of bits for the output precision		
	(I8/I16/I32/F32/F64 for nc1,nc2,nc4,nc4c;		
	F32/F64 for grb2,srv,ext,ieg; 1-24 for grb1,grb2)		
	Add L or B for Little or Big endian byteorder		
-f < format>	Outputformat: grb1,grb2,nc1,nc2,nc4,nc4c,srv,ext,		
-g < grid >	Grid or file name		
	Grid names: r <nx>x<ny>, n<n>, gme<ni></ni></n></ny></nx>		
-h	Help information for the operators		
-M	Indicate that the I/O streams have missing values		
-m < missval >	Set the default missing value (default: -9e+33)		
-O	Overwrite existing output file, if checked		
-R	Convert GRIB1 data from reduced to regular grid		
-r	Generate a relative time axis		
-s	Silent mode		
$-\mathbf{t} $	Set the parameter table name or file		
	Predefined tables: echam4 echam5 mpiom1		
-V	Print the version number		
-v	Print extra details for some operators		
-z szip	SZIP compression of GRIB1 records		

Operators

ngridpoints

 $<\!operator\!>\!\operatorname{infile}$

ngrids

Information			
info	Dataset information listed by parameter identifier		
infon	Dataset information listed by parameter name		
map	Dataset information and simple map		
<pre><operator> inf</operator></pre>	iles		
sinfo	Short information listed by parameter identifier		
sinfon	Short information listed by parameter name		
<pre><operator> inf</operator></pre>	iles		
xsinfo	Extra short information listed by parameter name		
xsinfop	Extra short information listed by parameter identifie		
<pre><operator> infiles</operator></pre>			
diff	Compare two datasets listed by parameter id		
diffn	Compare two datasets listed by parameter name		
<pre><operator>[,parameter] infile1 infile2</operator></pre>			
npar	Number of parameters		
nlevel	Number of levels		
nyear	Number of years		
nmon	Number of months		
ndate	Number of dates		
ntime	Number of timesteps		

Number of gridpoints

Number of horizontal grids

showformat	Show file format	
showcode	Show code numbers	
showname	Show variable names	
showstdname	Show standard names	
showlevel	Show levels	
showltype	Show GRIB level types	
showyear	Show years	
showmon	Show months	
showdate	Show date information	
showtime	Show time information	
showtimestam	Show timestamp	
< operator > infile		
showattribute	Show a global attribute or a variable attribute	

biiomattibate	blion a global accirbate of a variable accirbate	
showattribute[,attributes] infile		
partab	Parameter table	
codetab	Parameter code table	
griddes	Grid description	
zaxisdes Z-axis description		
vct Vertical coordinate table		
<pre>< operator > infile</pre>		

File operations

apply	Apply operators on each input file.		
apply,operators	infiles		
copy	Copy datasets		
clone	Clone datasets		
cat	Concatenate datasets		
<pre><operator> inf</operator></pre>	iles outfile		
tee	Duplicate a data stream		
tee,outfile2 infi	le outfile1		
pack	Pack data		
pack[,parameter	infile outfile		
unpack	Unpack data		
unpack infile	outfile		
bitrounding	Bit rounding		
bitrounding[,pa	arameter] infile outfile		
replace	Replace variables		
replace infile	infile2 outfile		
duplicate	Duplicates a dataset		
	of infile outfile		
mergegrid	Merge grid		
	le1 infile2 outfile		
merge	Merge datasets with different fields		
merge infiles	-		
mergetime	Merge datasets sorted by date and time		
mergetime[,options] infiles outfile			
splitcode	Split code numbers		
splitparam	Split parameter identifiers		
splitname	Split variable names		
splitlevel	Split levels		
splitgrid	Split grids		
splitzaxis splittabnum	Split z-axes Split parameter table numbers		
	rameter infile obase		
splithour	Split hours		
splitday	Split days		
splitseas	Split seasons		
splityear	Split years		
splityearmon	Split in years and months		
<pre><operator> infile obase</operator></pre>			
splitmon Split months splitmon[,format] infile obase			
•			
splitsel	Split time selection		
spiitsel,nsets[,ne	offset[,nskip]] infile obase		
splitdate	Splits a file into dates		
splitdate infil	e obase		

			samplegrid	Resample grid
distgrid	Distribute horizontal grid		samplegrid,fac	tor infile outfil
distgrid,nx[,ny] infile obase			selyearidx	Select year by ir
collgrid Collect horizontal grid		selyearidx inf	ile1 infile2 out	
collgrid[,nx[,names]] infiles outfile			seltimeidx	Select timestep
			14:: -!	27 - 4 2 - 627 - 0 4

Selection		bottomvalue	Extract bottom leve	
		topvalue	Extract top level	
select	Select fields	<pre>< operator > in:</pre>		
delete	Delete fields	isosurface	Extract isosurface	
<operator>,par</operator>	rameter infiles outfile	isosurface,isova	alue infile outfile	
selmulti	Select multiple fields			
delmulti	Delete multiple fields			
changemulti	Change identication of multiple fields			
< operator >, selection >	ection-specification infile outfile			
selparam	Select parameters by identifier			
delparam	Delete parameters by identifier	Conditional s	selection	
<operator>,par</operator>	rameter infile outfile	I		
selcode	Select parameters by code number	ifthen	If then	
delcode	Delete parameters by code number	ifnotthen	If not then	
<operator>,coo</operator>	des infile outfile	<pre><operator> in:</operator></pre>	file1 infile2 outfi	
selname	Select parameters by name	ifthenelse	If then else	
delname	Delete parameters by name	ifthenelse infi	le1 infile2 infile	
<pre>< operator > , nas</pre>	mes infile outfile	ifthenc	If then constant	
selstdname	Select parameters by standard name	ifnotthenc	If not then constant	
selstdname,std	names infile outfile	<pre> < operator >, c i</pre>		
sellevel	Select levels			
sellevel, levels i	nfile outfile	reducegrid	Reduce input file va	
sellevidx	Select levels by index	reducegrid,ma	sk[, limitCoordsOutput]	
sellevidx, levidx	infile outfile			
selgrid	Select grids	1		
selgrid, grids in	file outfile			
selzaxis	Select z-axes			
selzaxis,zaxes i	nfile outfile			
selzaxisname	Select z-axes by name	Comparison		
selzaxisname,z	axisnames infile outfile	1		
selltype	Select GRIB level types	eq	Equal	
selltype,ltypes	infile outfile	ne	Not equal	
seltabnum	Select parameter table numbers	le	Less equal	
seltabnum,tabnums infile outfile		lt	Less than	
seltimestep	Select timesteps	ge	Greater equal	
_	nesteps infile outfile	gt	Greater than	
seltime	Select times	<pre>< operator > in:</pre>	file1 infile2 outfi	
seltime, times i		000	Equal constant	
selhour	Select hours	eqc nec	Not equal constant	
selhour, hours i		lec	Less equal constant	
selday	Select days	ltc	Less than constant	
selday,days inf	v	gec	Greater equal const	
selmonth	Select months	gtc	Greater than consta	
selmonth, months infile outfile		<pre></pre>		
selyear	Select years			
selyear, years in	· ·	ymoneq	Compare time series	
selseason	Select seasons	ymonne	Compare time series	
	ns infile outfile	ymonle	Compare time series	
seldate	Select dates	ymonlt	Compares if time se	
	te[,enddate] infile outfile	ymonge	Compares if time se	
selsmon	Select single month	ymongt	Compares if time se	
	[,nts1[,nts2]] infile outfile	<pre><operator> in:</operator></pre>	file1 infile2 outfi	
sellonlatbox	Select a longitude/latitude box			
	n1,lon2,lat1,lat2 infile outfile			
selindexbox	Select an index box			
selindexbox,id	${f selindexbox}, idx1, idx2, idy1, idy2 \ {f infile}$ outfile			
selregion	Select cells inside regions	Modification		
		_		

selregion, regions infile outfile

selcircle[,parameter] infile outfile

<operator>,indices infile outfile

Select cells inside a circle

Select grid cells

Delete grid cells

selcircle

selgridcell

delgridcell

samplegrid, factor infile outfile		
selyearidx	Select year by index	
selyearidx infile1 infile2 outfile		
seltimeidx Select timestep by index		
seltimeidx infile1 infile2 outfile		
bottomvalue	Extract bottom level	
tonvalue	Extract top level	

emuiti	Change identication of multiple fields			
ator>,sele	ection-specification infile outfile			
am ram	Select parameters by identifier Delete parameters by identifier	Conditional	selection	
ator>,par	rameter infile outfile	10.1	TC .)	
le	Select parameters by code number	ifthen	If then	
de	Delete parameters by code number	ifnotthen	If not then	
ator >, coo	les infile outfile	<pre><operator> infile1 infile2 outfile</operator></pre>		
ne	Select parameters by name	ifthenelse	If then else	
me Delete parameters by name		ifthenelse infile1 infile2 infile3 outfile		
ator>,names infile outfile		ifthenc	If then constant	
name	Select parameters by standard name	ifnotthenc	If not then constant	
name,stdnames infile outfile			infile outfile	
el	Select levels			
el,levels i	nfile outfile	reducegrid		
idx	Select levels by index	reducegrid,ma	sk[,limitCoordsOutput] infile outfile	
idx, $levidx$	infile outfile			
d	Select grids			
d,grids infile outfile				
is	Select z-axes			
is zaves i	nfile outfile			

omparison

	eq	Equal		
	ne	Not equal		
	le	Less equal		
	lt	Less than		
	ge	Greater equal		
	gt	Greater than		
T	<pre><operator> infile1 infile2 outfile</operator></pre>			
	eqc	Equal constant		
	nec	Not equal constant		
	lec	Less equal constant		
	ltc	Less than constant		
	gec	Greater equal constant		
	gtc Greater than constant			
	<pre><operator>,c infile outfile</operator></pre>			
	ymoneq	Compare time series with Equal		
	ymonne	Compare time series with NotEqual		
_	ymomie	Compare time series with NotEqual		

ymoneq	Compare time series with Equal
ymonne	Compare time series with NotEqual
ymonle	Compare time series with LessEqual
ymonlt	Compares if time series with LessThan
ymonge	Compares if time series with GreaterEqual
ymongt	Compares if time series with GreaterThan
<pre><operator> infile1 infile2 outfile</operator></pre>	

Modification

setattribute	Set attributes	
setattribute, attributes infile outfile		
setpartabp	Set parameter table	
setpartabn	Set parameter table	
<pre><operator>,table[,convert] infile outfile</operator></pre>		

setcodetab Set parameter code table		
setcode setcode Set code number	shiftx	Shift x
setcode set code number setcode,code infile outfile	shifty	Shift y
setparam Set parameter identifier		hift;,jcyclic;,jcoord; inf:
setparam, param infile outfile	maskregion	Mask regions
setname Set variable name	maskregion,reg	gions infile outfile
setname,name infile outfile		Mask a longitude/latit
setunit Set variable unit		,lon1,lon2,lat1,lat2 infi
setunit,unit infile outfile		Mask an index box
setlevel Set level	_	idx1,idx2,idy1,idy2 infi,
setlevel, level infile outfile setltype Set GRIB level type		Set a longitude/latitud
settype set GRIB level type settype, ltype infile outfile		c,lon1,lon2,lat1,lat2 infi
setmaxsteps Set max timesteps		Set an index box to con
setmaxsteps,maxsteps infile outfile		idx1,idx2,idy1,idy2 infi
setdate Set date		Enlarge fields
setdate, date infile outfile	enlarge,grid in	file outfile
settime Set time of the day	setmissval	Set a new missing value
settime, time infile outfile		miss infile outfile
setday Set day	setctomiss	Set constant to missing
setday,day infile outfile	setmisstoc	Set missing value to co
setmon Set month	<pre>< operator >, c i setrtomiss</pre>	
setmon, month infile outfile	setrtomiss	Set range to missing va Set valid range
setyear Set year		in,rmax infile outfile
setyear, year infile outfile settunits Set time units	setmisstonn	
settunits units infile outfile	setmisstonn in	
settaxis Set time axis	setmisstodis	Set missing value to dis
settaxis, date, time[,inc] infile outfile	setmisstodis[,n	eighbors] infile outfil
settbounds Set time bounds	vertfillmiss	Vertical filling of missing
settbounds, frequency infile outfile	vertfillmiss[,pa	rameter] infile outfile
setreftime Set reference time	timfillmiss	Temporal filling of miss
setreftime,date,time[,units] infile outfile		rameter infile outfile
setcalendar Set calendar	setgridcell	Set the value of a grid
setcalendar, calendar infile outfile shifttime Shift timesteps		ameter infile outfile
Sint timesteps		
shifttime,shiftValue infile outfile		
shifttime,shiftValue infile outfile chcode Change code number		
shifttime,shiftValue infile outfile chcode Change code number chcode,oldcode,newcode[,] infile outfile		
shifttime,shiftValue infile outfile chcode Change code number chcode,oldcode,newcode[,] infile outfile chparam Change parameter identifier		
shifttime,shiftValue infile outfile chcode Change code number chcode,oldcode,newcode[,] infile outfile		
shifttime,shiftValue infile outfile chcode Change code number chcode,oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile	Arithmetic	
chcode Change code number chcode,oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit	Arithmetic	
chcode Change code number chcode, oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile	Arithmetic	Evaluate expressions
chcode Change code number chcode,oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newnint, infile outfile chlevel Change level		
chcode Change code number chcode, oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile	expr expr,instr infi	
chcode Change code number chcode, oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevelc Change level chlevelc Change level of one code	expr expr,instr infi exprf exprf,filename	le outfile Evaluate expressions so infile outfile
chcode Change code number chcode, oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevelc Change level of one code chlevelc,code,oldlev,newlev infile outfile	expr expr,instr infi exprf exprf,filename	Le outfile Evaluate expressions so infile outfile Evaluate expressions and
chcode Change code number chcode, oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newnunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevelc Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevel Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevel Change level of one variable	expr expr,instr infi exprf exprf,filename aexpr aexpr,instr inf	Le outfile Evaluate expressions so infile outfile Evaluate expressions and ile outfile
chcode Change code number chcode, oldcode,newcode[] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newnnit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevelc Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevel Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevelv Change level of one variable chlevelv name,oldlev,newlev infile outfile	expr expr,instr infi exprf exprf,filename aexpr aexpr,instr infi aexprf	le outfile Evaluate expressions so infile outfile Evaluate expressions ar ile outfile Evaluate expression sor
chcode Change code number chcode, oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level chlevelc Change level of one code chlevelc,ode,oldlev,newlev infile outfile chlevelv Change level of one variable chlevelv Change level of one variable chlevelv,name,oldlev,newlev infile outfile setgrid Set grid	expr expr,instr infi exprf exprf,filename aexpr aexpr,instr infi aexprf aexprf,filename	le outfile Evaluate expressions so infile outfile Evaluate expressions ar ile outfile Evaluate expression sor infile outfile
chcode Change code number chcode,oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level chlevel,olddev,newlev, infile outfile chlevel Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevel Change level of one variable chlevely Aname,oldlev,newlev infile outfile setgrid Set grid setgrid,grid infile outfile	expr expr,instr infi exprf exprf,filename aexpr aexpr,instr infi aexprf aexprf,filename abs	Le outfile Evaluate expressions so infile outfile Evaluate expressions an ile outfile Evaluate expression sor infile outfile Absolute value
chcode Change code number chcode,oldcode,newcode[] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level chlevelc Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevelv Change level of one variable chlevelv Change level of one variable chlevelv Change level of one variable chlevelv,name,oldlev,newlev infile outfile setgrid Set grid	expr expr,instr infi: exprf exprf,filename: aexpr aexpr,instr inf aexprf aexprf,filename abs int	le outfile Evaluate expressions so infile outfile Evaluate expressions ar ile outfile Evaluate expression sor infile outfile Absolute value Integer value
chcode Change code number chcode,oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel Change level chlevelc,oldlev,newlev, infile outfile chlevelc Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevelv,name,oldlev,newlev infile outfile chlevelv,name,oldlev,newlev infile outfile setgrid Set grid setgrid,grid infile outfile setgridtype Set grid type	expr expr,instr infi exprf exprf,filename aexpr aexpr,instr inf aexprf aexprf,filename abs int nint	le outfile Evaluate expressions so infile outfile Evaluate expressions an ile outfile Evaluate expression so infile outfile Absolute value Integer value Nearest integer value
chcode Change code number chcode,oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newnit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevelv Change level of one variable chlevelv,name,oldlev,newlev infile outfile setgrid Set grid setgrid jrid infile outfile setgrid,grid infile outfile setgridtype Set grid type setgridtype,gridtype infile outfile	expr expr,instr infi exprf exprf,filename aexpr aexpr,instr inf aexprf aexprf,filename abs int nint pow	le outfile Evaluate expressions so infile outfile Evaluate expressions an ile outfile Evaluate expression sor infile outfile Absolute value Integer value Power
chcode Change code number chcode,oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevelv Change level of one variable chlevelv Change level of one traile chlevelv Change level of one traile chlevelv Change level of one straile chlevelv Change level of one variable chlevelv,newlev infile outfile setgrid Set grid setgrid,grid infile outfile setgridtype,gridtype infile outfile setgridtype,gridtype infile outfile setgridarea Set grid cell area setgridarea,gridarea infile outfile setgridmask Set grid mask	expr expr,instr infi exprf exprf,filename aexpr aexpr,instr infi aexprf aexprf,filename abs int nint pow sqr	le outfile Evaluate expressions so infile outfile Evaluate expressions an ile outfile Evaluate expression son infile outfile Absolute value Integer value Nearest integer value Power Square
chcode Change code number chcode,oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newnit, infile outfile chevel Change level chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevelv Change level of one variable chlevelv,name,oldlev,newlev infile outfile setgrid Set grid setgrid,grid infile outfile setgridtype Set grid type setgridtype,gridtype infile outfile setgridarea Set grid cell area setgridarea Set grid cell area setgridarea Set grid mask setgridmask Set grid mask setgridmask,gridmask infile outfile	expr expr,instr infi: exprf exprf,filename: aexpr aexpr,instr inf aexprf aexprf,filename abs int nint pow sqr sqrt	le outfile Evaluate expressions so infile outfile Evaluate expressions an ile outfile Evaluate expression so infile outfile Absolute value Integer value Nearest integer value Power Square Square root
chcode Change code number chcode,oldcode,newcode[] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevel Change level of one variable chlevelv Change level of one variable chlevelv Change level of one variable chlevelv infile outfile setgrid Set grid setgrid,grid infile outfile setgrid,grid infile outfile setgridtype,gridtype infile outfile setgridtype,gridtype infile outfile setgridarea Set grid cell area setgridarea,gridarea infile outfile setgridmask setgridmask infile outfile setprojparams Set proj params	expr expr,instr infi exprf exprf,filename aexpr aexpr,instr infi aexprf aexprf,filename abs int nint pow sqr	le outfile Evaluate expressions so infile outfile Evaluate expressions and ile outfile Evaluate expression sor infile outfile Absolute value Integer value Nearest integer value Power Square Square root Exponential Natural logarithm
chcode Change code number chcode,oldcode,newcode[] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newnnit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevel Change level of one variable chlevely name,oldlev,newlev infile outfile setgrid Set grid setgrid,grid infile outfile setgridype,gridtype infile outfile setgridtype,gridtype infile outfile setgridarea Set grid cell area setgridmask Set grid mask setgridmask,gridmask infile outfile setprojparams Set proj params setprojparams,projparams infile outfile	expr expr,instr infi: exprf exprf,filename aexpr aexpr,instr inf aexprf aexprf,filename abs int nint pow sqr sqrt exp ln log10	le outfile Evaluate expressions so infile outfile Evaluate expressions and ile outfile Evaluate expression sor infile outfile Absolute value Integer value Nearest integer value Power Square Square Square root Exponential Natural logarithm Base 10 logarithm
chcode Change code number chcode,oldcode,newcode[] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevel Change level of one variable chlevelv Change level of one variable chlevelv Change level of one variable chlevelv infile outfile setgrid Set grid setgrid,grid infile outfile setgrid,grid infile outfile setgridtype,gridtype infile outfile setgridtype,gridtype infile outfile setgridarea Set grid cell area setgridarea,gridarea infile outfile setgridmask setgridmask infile outfile setprojparams Set proj params	expr expr,instr infi: exprf exprf,filename: aexpr aexpr,instr inf aexprf aexprf,filename abs int nint pow sqr sqrt exp ln log10 sin	le outfile Evaluate expressions so infile outfile Evaluate expressions and ile outfile Evaluate expressions and ile outfile Evaluate expression so infile outfile Absolute value Integer value Nearest integer value Power Square Square Square root Exponential Natural logarithm Base 10 logarithm Sine
chcode Change code number chcode,oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevelv Change level of one variable chlevelv Change level of one variable chlevelv Change level of one trille chlevelv Change level of one variable chlevelv,name,oldlev,newlev infile outfile setgrid Set grid setgrid,grid infile outfile setgridype Set grid type setgridtype,gridtype infile outfile setgridarea Set grid cell area setgridarea,gridarea infile outfile setgridmask Set grid mask setgridmask,gridmask infile outfile setprojparams Set proj params setprojparams set proj params setprojparams,projparams infile outfile setzaxis Set z-axis setzaxis,zaxis infile outfile	expr expr,instr infi exprf exprf,filename aexpr aexpr,instr inf aexprf aexprf,filename abs int nint pow sqr sqrt exp ln log10 sin cos	le outfile Evaluate expressions so infile outfile Evaluate expressions and ile outfile Evaluate expression sand ile outfile Evaluate expression sand ile outfile Absolute value Integer value Nearest integer value Power Square Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine
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chcode Change code number chcode, oldcode,newcode[] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevelv Change level of one variable chlevelv Change level of one variable chlevelv Change level of one triple chlevelv Change level of one saidle chlevelv,name,oldlev,newlev infile outfile setgrid Set grid setgrid,grid infile outfile setgrid,grid infile outfile setgridtype, gridtype infile outfile setgridarea Set grid cell area setgridarea,gridarea infile outfile setgridmask Set grid mask setgridmask,gridmask infile outfile setprojparams setprojparams setprojparams infile outfile setzaxis Set z-axis setzaxis,zaxis infile outfile genlevelbounds Generate level bounds genlevelbounds [zbot[ztop]] infile outfile	expr expr,instr infi: exprf exprf,filename aexpr aexprf,filename abs int nint pow sqr sqrt exp in log10 sin cos tan asin	le outfile Evaluate expressions so infile outfile Evaluate expressions and ile outfile Evaluate expression sor infile outfile Evaluate expression sor infile outfile Absolute value Integer value Power Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine
chcode Change code number chcode, oldcode,newcode[,] infile outfile chparam Change parameter identifier chparam,newparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level of one code chlevelc,ode,oldlev,newlev infile outfile chlevel Change level of one code chlevelc,ode,oldlev,newlev infile outfile chlevely Change level of one variable chlevely,name,oldlev,newlev infile outfile setgrid Set grid setgrid,grid infile outfile setgridtype Set grid type setgridtype,gridtype infile outfile setgridarea Set grid cell area setgridarea,gridarea infile outfile setgridmask Set grid mask setgridmask,gridmask infile outfile setprojparams Set proj params setprojparams,projparams infile outfile setzaxis Set z-axis setzaxis Set z-axis setzaxis infile outfile genlevelbounds genlevelbounds [zbot[,ztop]] infile outfile invertlat Invert latitudes	expr expr,instr infi: exprf exprf,filename: aexpr aexpr,instr inf aexprf aexprf,filename abs int nint pow sqr sqrt exp ln log10 sin cos tan asin acos	Le outfile Evaluate expressions so infile outfile Evaluate expressions arile outfile Evaluate expressions arile outfile Evaluate expression so infile outfile Absolute value Integer value Nearest integer value Power Square Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine
chcode Change code number chcode, oldcode,newcode[] infile outfile chparam Change parameter identifier chparam,oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel,oldlev,newlev, infile outfile chlevel Change level of one code chlevelc,code,oldlev,newlev infile outfile chlevelv Change level of one variable chlevelv Change level of one variable chlevelv Change level of one triple chlevelv Change level of one saidle chlevelv,name,oldlev,newlev infile outfile setgrid Set grid setgrid,grid infile outfile setgrid,grid infile outfile setgridtype, gridtype infile outfile setgridarea Set grid cell area setgridarea,gridarea infile outfile setgridmask Set grid mask setgridmask,gridmask infile outfile setprojparams setprojparams setprojparams infile outfile setzaxis Set z-axis setzaxis,zaxis infile outfile genlevelbounds Generate level bounds genlevelbounds [zbot[ztop]] infile outfile	expr expr,instr infi: exprf exprf,filename aexpr aexprf,filename abs int nint pow sqr sqrt exp in log10 sin cos tan asin	le outfile Evaluate expressions so infile outfile Evaluate expressions and ile outfile Evaluate expression sand ile outfile Evaluate expression sand ile outfile Absolute value Integer value Nearest integer value Power Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc tangent
chcode Change code number chcode, oldcode,newcode[] infile outfile chparam Change parameter identifier chparam, oldparam,newparam, infile outfile chname Change variable or coordinate name chname,oldname,newname, infile outfile chunit Change variable unit chunit,oldunit,newunit, infile outfile chlevel Change level chlevel Change level chlevelc, oldlev,newlev, infile outfile chlevel Change level of one code chlevelc,ode,oldlev,newlev infile outfile chlevelv Change level of one variable chlevelv, name,oldlev,newlev infile outfile setgrid Set grid setgrid,grid infile outfile setgridtype Set grid type setgridtype,gridtype infile outfile setgridarea Set grid cell area setgridarea,gridarea infile outfile setgridmask Set grid mask setgridmask, Set grid mask setgridmask, set grid mask setgridnask, sinfile outfile setpojparams Set proj params setprojparams set proj params setprojparams.projparams infile outfile setzaxis Set z-axis setzaxis,zaxis infile outfile genlevelbounds genlevelbounds [zebot],ztop]] infile outfile invertlat Invert latitudes	expr expr,instr infi: exprf exprf,filename aexpr aexpr,instr inf aexprf aexprf,filename abs int nint pow sqr sqrt exp ln log10 sin cos tan asin acos atan	Le outfile Evaluate expressions so infile outfile Evaluate expressions arile outfile Evaluate expressions arile outfile Evaluate expression so infile outfile Absolute value Integer value Nearest integer value Power Square Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine
chcode Change code number chcode, oldcode,newcode[] infile outfile chparam Change parameter identifier chparam, oldparam,newparam, infile outfile chname Change variable or coordinate name chname, oldname,newname, infile outfile chunit Change variable unit chunit, oldunit,newunit, infile outfile chlevel Change level chlevel, oldlev,newlev, infile outfile chlevel Change level of one code chlevelc, code, oldlev,newlev infile outfile chlevelv Change level of one variable chlevelv Change level of one variable chlevelv, name, oldlev, newlev infile outfile setgrid Set grid setgrid, grid infile outfile setgridtype Set grid type setgridtype, gridtype infile outfile setgridarea Set grid cell area setgridarea, gridarea infile outfile setgridmask Set grid mask setgridmask, gridmask infile outfile setprojparams Set proj params setprojparams, projparams infile outfile setzaxis Set z-axis setzaxis, zaxis infile outfile genlevelbound: Generate level bounds genlevelbounds [zbot[.ztop]] infile outfile invertlat Invert latitudes invertlat infile outfile	expr expr,instr infi: exprf exprf,filename: aexpr aexpr,instr inf aexprf aexprf,filename abs int nint pow sqr sqrt exp ln log10 sin cos tan asin acos atan reci	le outfile Evaluate expressions suinfile outfile Evaluate expressions arile outfile Evaluate expression scinfile outfile Evaluate expression scinfile outfile Absolute value Integer value Power Square Square root Exponential Natural logarithm Base 10 logarithm Sine Cosine Tangent Arc sine Arc cosine Arc tangent Reciprocal value Logical NOT

shiftx	Shift x
shifty	Shift y
<operator>,insi</operator>	hift;,jcyclic;,jcoord; infile outfile
maskregion	Mask regions
	ions infile outfile
macklanlathov	Mask a longitude/latitude box
	lon1,lon2,lat1,lat2 infile outfile
	Mask an index box
	idx1,idx2,idy1,idy2 infile outfile
setclonlatbox	Set a longitude/latitude box to constant
	c,lon1,lon2,lat1,lat2 infile outfile
setcindexbox	Set an index box to constant
setcindexbox,c	idx1,idx2,idy1,idy2 infile outfile,
enlarge	Enlarge fields
enlarge,grid int	
setmissval	Set a new missing value
	miss infile outfile
setctomiss	Set constant to missing value
setmisstoc	Set missing value to constant
<operator>,c i</operator>	nfile outfile
setrtomiss	Set range to missing value
setvrange	Set valid range
< operator >, rmi	in,rmax infile outfile
setmisstonn	Set missing value to nearest neighbor
setmisstonn in	
setmisstodis	Set missing value to distance-weighted average
£	eighbors] infile outfile
vertfillmiss	Vertical filling of missing values
vertfillmiss[,pa	rameter] infile outfile
timfillmiss	Temporal filling of missing values
timfillmiss[,par	ameter] infile outfile
setgridcell	Set the value of a grid cell
0	umeter infile outfile

Arithmetic

exprf, filename infile outfile		
aexpr	Evaluate expressions and append results	
aexpr,instr inf:	aexpr,instr infile outfile	
aexprf	Evaluate expression script and append results	
aexprf,filename	infile outfile	
abs	Absolute value	
int	Integer value	
nint	Nearest integer value	
pow	Power	
sqr	Square	
sqrt	Square root	
exp	Exponential	
ln	Natural logarithm	
log10	Base 10 logarithm	
sin	Sine	
cos	Cosine	
tan	Tangent	
asin	Arc sine	
acos	Arc cosine	
atan	Arc tangent	
reci	Reciprocal value	
not	Logical NOT	
<pre><operator> infile outfile</operator></pre>		

Evaluate expressions script

1.1	A 11	
addc	Add a constant	timcu
subc mulc	Subtract a constant	timcu
dive	Multiply with a constant Divide by a constant	conse
minc	Minimum of a field and a constant	< oper
maxc	Maximum of a field and a constant	vars<
	infile outfile	< oper
add	Add two fields	ens< s
sub	Subtract two fields	ensske
mul	Multiply two fields	ensku
div	Divide two fields	ensme
min	Minimum of two fields	< oper
max	Maximum of two fields	enspc
atan2	Arc tangent of two fields	enspc
<operator> ii</operator>	nfile1 infile2 outfile	ensrk
dayadd	Add daily time series	ensrk
daysub	Subtract daily time series	ensro
daymul	Multiply daily time series	< oper
daydiv	Divide daily time series	
	nfile1 infile2 outfile	enscri
monadd	Add monthly time series	ensbr
monadd	Add monthly time series Subtract monthly time series	ensbr
monsub	Multiply monthly time series	
mondiv	Divide monthly time series	fld <st< td=""></st<>
	nfile1 infile2 outfile	< oper
		fldint
yearadd	Add yearly time series	< oper
yearsub yearmul	Subtract yearly time series Multiply yearly time series	fldske
yeardiv	Divide yearly time series	fldkur
	nfile1 infile2 outfile	fldcou
		< oper
yhouradd	Add multi-year hourly time series	fldpct
yhoursub yhourmul	Subtract multi-year hourly time series Multiply multi-year hourly time series	fldpct
yhourdiv	Divide multi-year hourly time series	
v	nfile1 infile2 outfile	zon<
		<pre>coper</pre>
ydayadd	Add multi-year daily time series	zonsk
ydaysub ydaymul	Subtract multi-year daily time series Multiply multi-year daily time series	zonku
ydaydiv	Divide multi-year daily time series	zonme
	offile1 infile2 outfile	< oper
		zonpo
ymonadd	Add multi-year monthly time series	zonpo
ymonsub	Subtract multi-year monthly time series	mer<
ymonmul ymondiv	Multiply multi-year monthly time series Divide multi-year monthly time series	mersk
	nfile1 infile2 outfile	merk
		merm
yseasadd	Add multi-year seasonal time series	< oper
yseassub	Subtract multi-year seasonal time series	merpe
yseasmul	Multiply multi-year seasonal time series	merpe
yseasdiv	Divide multi-year seasonal time series nfile1 infile2 outfile	gridbe
		gridbe
muldpm	Multiply with days per month	gridbe
divdpm	Divide by days per month	gridbe
muldpy	Multiply with days per year	< oper
divdpy	Divide by days per year	
<operator> ii</operator>		remaj
mulcoslat	Multiply with the cosine of the latitude	remai
divcoslat	Divide by cosine of the latitude	remaj
< operator > in	nfile outfile	coper
		vert<

Statistical values

Available statistical functions	< stat >
minimum	min
maximum	max
range	range
sum	sum
mean	mean
average	avg
variance	var, var1
standard deviation	std. std1

	timcumsum	Cumulative sum over all timesteps
	timcumsum in	file outfile
	consects	Consecutive Timesteps
	<pre><onsects <operator=""> inf</onsects></pre>	
	vars <stat></stat>	
	<pre><operator> inf</operator></pre>	ile outfile
	ens < stat >	Statistical values over an ensemble
	ensskew	Ensemble skewness
	enskurt	Ensemble kurtosis
	ensmedian	Ensemble median
	< operator > inf	
	enspctl	Ensemble percentiles
	enspctl,pinfil	es outfile
	ensrkhistspace	Ranked Histogram averaged over time
		Ranked Histogram averaged over space
	ensroc	Ensemble Receiver Operating characteristics
	<pre><operator> obs</operator></pre>	file ensfiles outfile
	enscrps	Ensemble CRPS and decomposition
		infiles outfilebase
	ensbrs	Ensemble Brier score
		infiles outfilebase
		Statistical values over a field
	<pre>< operator > inf</pre>	
	fldint	Field integral
\equiv		ghts infile outfile
	fldskew	Field skewness
	fldkurt	Field kurtosis
	fldmedian	
	fldcount	Field count
	<pre><operator> inf</operator></pre>	
	fldpctl	Field percentiles
	fldpctl,p infile	
	zon <stat></stat>	Zonal statistics
	<pre><operator> inf</operator></pre>	
		des infile outfile
	zonskew	Zonal skewness
	zonkurt	Zonal kurtosis
	zonmedian	Zonal median
	<pre><operator> inf</operator></pre>	
	zonpctl	Zonal percentiles

	zonpctl,p infile outfile		
	mer < stat >	Meridional statistics	
	merskew	Meridional skewness	
	merkurt	Meridional kurtosis	
	mermedian	Meridional median	
	< operator > inf	<pre><operator> infile outfile</operator></pre>	
	merpctl	Meridional percentiles	
merpctl,p infile outfile		le outfile	
	amidbass < atat >	Ctatistical values over mid house	

gridbox < stat >	Statistical values over grid boxes
gridboxskew	Gridbox skewness
gridboxkurt	Gridbox kurtosis
gridboxmedian	Gridbox median
<pre><operator>,nx,ny infile outfile</operator></pre>	

remap < stat >	Remaps source points to target cells
remapskew	Remap skewness
remapkurt	Remap kurtosis
remapmedian	Remap median
< operator >, grid	d infile outfile

(- F	
$\mathbf{vert} < stat >$	Vertical statistics
<pre><operator>,weights infile outfile</operator></pre>	

timsel <stat> Time range statistics</stat>	
<pre>< operator > ,nse</pre>	ts[,noffset[,nskip]] infile outfile
timselpctl Time range percentiles	

	<pre>timselpctl,p,nsets[,noffset[,nskip]] infile1 infile2 infile3</pre>			outfil	
	run < stat >	Running statistics			
<pre><operator>,nts infile outfile</operator></pre>					

runpctl Running percentiles	fldcovar Covariance in grid space		gridarea Grid cell area	
runpctl,p,nts infile outfile	fldcovar infile1 infile2 outfile	intlevel3d Linear level interpolation onto a 3D vertical coordi		
tim <stat> Statistical values over all timesteps</stat>	timcovar Covariance over time	intlevelx3d like intlevel3d but with extrapolation	gridweights Grid cell weights gridweights infile outfile	
timminidx Index of time minimum	timcovar infile1 infile2 outfile	<pre><operator>,tgtcoordinate infile1 infile2 outfile</operator></pre>		
immaxidx Index of time maximum Smooth Smooth grid points smooth				
<pre><operator> infile outfile</operator></pre>	Regression	inttime,date,time[,inc] infile outfile	smooth 9 point smoothing	
timpctl Time percentiles		intntime Interpolation between timesteps intntime, n infile outfile	smooth9 infile outfile	
timpctl,p infile1 infile2 infile3 outfile	regres Regression			
hour <stat> Hourly statistics</stat>	regres[,equal] infile outfile	intyear Interpolation between two years	smooth9 infile outfile	
$<\!operator\!>$ infile outfile	detrend Detrend	intyear, years infile1 infile2 obase	setvals Set list of old values to new values	
hourpctl Hourly percentiles	detrend[,equal] infile outfile		set vals, oldval, newval[] infile outfile	
hourpctl,p infile1 infile2 infile3 outfile	trend Trend	TD	setrtoc Set range to constant	
day <stat> Daily statistics</stat>	trend[,equal] infile outfile1 outfile2	Transformation	setrtoc,rmin,rmax,c infile outfile	
<pre><pre></pre><pre><pre><pre><pre><pre><pre>parameter</pre></pre> infile outfile</pre></pre></pre></pre></pre>	addtrend Add trend	sp2gp Spectral to gridpoint	setrtoc2 Set range to constant others to constant2	
2	subtrend Subtract trend	gp2sp Gridpoint to spectral	setrtoc2,rmin,rmax,c,c2 infile outfile	
daypctl Daily percentiles	<pre><pre>< operator > [,equal] infile1 infile2 infile3 outfile</pre></pre>	<pre><operator>[,type—trunc] infile outfile</operator></pre>	gridcellindex Get grid cell index from lon/lat point	
daypctl,p infile1 infile2 infile3 outfile		sp2sp Spectral to spectral	gridcellindex[,parameter] infile	
mon <stat> Monthly statistics</stat>		sp2sp,trunc infile outfile		
<pre><operator>[,parameter] infile outfile</operator></pre>	EOFs	dv2ps D and V to velocity potential and stream function	const Create a constant field const.const.grid outfile	
monpctl Monthly percentiles	eof Calculate EOFs in spatial or time space	dv2ps infile outfile	random Create a field with random numbers	
monpctl,p infile1 infile2 infile3 outfile	eoftime Calculate EOFs in time space	dv2uv Divergence and vorticity to U and V wind	random Create a field with random numbers random,grid[,seed] outfile	
yearmonmean Yearly mean from monthly data	eofspatial Calculate EOFs in spatial space	uv2dv U and V wind to divergence and vorticity	topo Create a field with topography	
yearmonmean Yearly mean from monthly data yearmonmean infile outfile	eof3d Calculate 3-Dimensional EOFs in time space	<pre><pre></pre></pre> <pre></pre>	topo[,grid] outfile	
	<pre><operator>,neof infile outfile1 outfile2</operator></pre>		seq Create a time series	
year <stat> Yearly statistics</stat>	eofcoeff Calculate principal coefficients of EOFs	fourier Fourier transformation	seq.start.end[,inc] outfile	
yearminidx Index of yearly minimum	eofcoeff infile1 infile2 obase	fourier,epsilon infile outfile	stdatm Create values for pressure and temperature for hyd	
yearmaxidx Index of yearly maximum			stdatm,levels outfile	
<pre><operator>[,parameter] infile outfile</operator></pre>		I	timsort Sort over the time	
yearpctl Yearly percentiles	Interpolation	$\operatorname{Import/Export}$	timsort infile outfile	
yearpctl,p infile1 infile2 infile3 outfile	remapbil Bilinear interpolation	import_binary Import binary data sets		
seas < stat > Seasonal statistics	remapbil, grid infile outfile	import_binary infile outfile	uvDestag Destaggering of u/v wind components	
<pre><operator> infile outfile</operator></pre>	genbil Generate bilinear interpolation weights	import_cmsaf Import CM-SAF HDF5 files	uvDestag,u,v[,-/+0.5[,-/+0.5]] infile outfile	
	genbil,grid[,map3d] infile outfile		rotuvNorth Rotate u/v wind to North pole.	
Congret! Seegonal percentiles	generation and an arrangement of the second	import cmsat infile outfile		
seaspetl Seasonal percentiles		import_cmsaf infile outfile	projuvLatLon Cylindrical Equidistant projection	
seaspctl,p infile1 infile2 infile3 outfile	remapbic Bicubic interpolation	import_amsr Import AMSR binary files	<pre><operator>,u,v infile outfile</operator></pre>	
seaspctl,p infile1 infile2 infile3 outfile yhour <stat> Multi-year hourly statistics</stat>			<pre><aperator>,u,v infile outfile rotuvb Backward rotation</aperator></pre>	
seaspctl,p infile1 infile2 infile3 outfile	remapbic Bicubic interpolation remapbic, grid infile outfile	import_amsr Import AMSR binary files import_amsr infile outfile input ASCII input	<pre><operator>,u,v infile outfile</operator></pre>	
seaspetl,p infile1 infile2 infile3 outfile yhour< stat> Multi-year hourly statistics	remapbic Bicubic interpolation remapbic,grid infile outfile genbic Generate bicubic interpolation weights genbic,grid[,map3d] infile outfile	import_amsr Import AMSR binary files import_amsr infile outfile input ASCII input input_grid[,zaxis] outfile	<pre><aperator>,u,v infile outfile rotuvb Backward rotation</aperator></pre>	
<pre>seaspctl,p infile1 infile2 infile3 outfile yhour<stat> Multi-year hourly statistics <operator> infile outfile</operator></stat></pre>	remapbic Bicubic interpolation remapbic,grid infile outfile genbic Generate bicubic interpolation weights genbic,grid[,map3d] infile outfile remapnn Nearest neighbor remapping	import_amsr Import AMSR binary files import_amsr infile outfile input	<pre><aperator>,u,v infile outfile rotuvb</aperator></pre>	
seaspctl,p infile1 infile2 infile3 outfile yhour< stat> Multi-year hourly statistics dhour< stat> Multi-day hourly statistics dhour stat multi-day hourly statistics depender infile outfile	remapbic Bicubic interpolation remapbic,grid infile outfile genbic Generate bicubic interpolation weights genbic,grid[,map3d] infile outfile	import_amsr Import AMSR binary files import_amsr infile outfile input ASCII input input_grid[_zaxis] outfile inputsrv SERVICE ASCII input inputext EXTRA ASCII input	<pre>coperator>,u,v infile outfile rotuvb</pre>	
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strwin	Strong wind days index per time period			
strwin[,v] infile outfile				
strbre	Strong breeze days index per time period			
	e infile outfile			
strore initie	DUCTITE			
strgal	Strong gale days index per time period			
strgal infile o	strgal infile outfile			
hurr	Unmissans days index non-time nonice			
	Hurricane days index per time period			
hurr infile outfile				
cmorlite	CMOR lite			
cmorlite,table[,convert] infile outfile				
vorifygrid	Verify grid coordinates			
	* 0			
verifygrid infile				
hpdegrade	Degrade healpix			
hpupgrade	hpupgrade Upgrade healpix <operator>,parameter infile outfile</operator>			
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NCL

uv2vr_cfd	U and V wind to relative vorticity	
uv2dv_cfd	U and V wind to divergence	
< operator > [,u,v,boundOpt,outMode] infile outfile		