		m on	Money detector with different C 11
CDCD	famous as Courd	merge	Merge datasets with different fields
UDU Ke	ference Card	mergetime	Merge datasets sorted by date and time
		Syntax	<pre><operator> ifiles ofile</operator></pre>
	Climate Data Operators	splitcode	Split codes
	Version 0.9.13	splitvar	Split variables
		splitlevel	Split levels
	May 2006	splitgrid	Split grids
Jwe Schulzweida		splitzaxis	Split zaxis
	tute for Meteorology	splitrec	Split records
vian-i ianck=inStl	to to the corology	Syntax	<pre><pre>< operator > ifile oprefix</pre></pre>
Y4		splithour	Split hours
Syntax		splitday	Split days
cdo [Options]	Operators	splitmon	Split months
cae [options]	- Operators	splitseas	Split seasons
)4!		splityear	Split years
Options		Syntax	<pre><operator> ifile oprefix</operator></pre>
-a	Convert from relative to absolute time axis		
$-\mathbf{f} < format >$	Output file format (grb, nc, nc2, srv, ext, ieg)		
-g < grid >	Grid name or file	Selection	
0 \9/	Available grids: t <res>grid, r<nx>x<ny></ny></nx></res>	selcode	Salast sadas
-h	Help information for the operators	1	Select codes
		delcode	Delete codes
-m < missval >	Set the default missing value (default: -9e+33)	Syntax	<pre>< operator > , codes ifile ofile</pre>
- p < prec >	Set the precision of the output data in bytes	selvar	Select variables
_	(4/8 for nc, nc2, srv, ext; 1/2/3 for grb)	delvar	Delete variables
-R	Convert GRIB data from reduced to regular grid	Syntax	<pre><operator>,vars ifile ofile</operator></pre>
-r	Convert from absolute to relative time axis	sellevel	Select levels
$-\mathbf{t} $	Set the parameter table name or file	Syntax	sellevel, levels ifile ofile
	Predefined tables: echam4 echam5 mpiom1	selgrid	Select grids
-V	Print the version number	Syntax	selgrid,grids ifile ofile
-v	Print extra details for some operators	selgridname	Select grid by name
	*	Syntax	selgridname, gridnames ifile ofile
Operators		selzaxis	Select zaxis
Perauora		Syntax	selzaxis,zaxis ifile ofile
nformation		selzaxisname	Select zaxis by name
info	Dataset information	Syntax	selzaxisname, zaxisnames ifile ofile
map	Dataset information and simple map	seltabnum	Select parameter table number
Syntax	<pre><pre>coperator > ifiles</pre></pre>		
		Syntax	seltabnum,tabnum ifile ofile
sinfo	Short dataset information	selrec	Select records
Syntax	< operator > ifile	Syntax	selrec,records ifile ofile
diff	Compare two datasets	seltimestep	Select time steps
Syntax	<pre><ompare <operator="" datasets="" two=""> ifile1 ifile2</ompare></pre>	Syntax	seltimestep,timesteps ifile ofile
		seltime	Select times
ncode	Number of codes	Syntax	seltime, times ifile ofile
nvar	Number of variables	selhour	Select hours
nlevel	Number of levels	Syntax	selhour, hours ifile ofile
nyear	Number of years	selday	Select days
nmon	Number of months	Syntax	selday,days ifile ofile
ndate	Number of dates	selmon	Select months
ntime	Number of time steps	Syntax	selmon, months ifile ofile
Syntax	<pre><operator> ifile</operator></pre>	selyear	Select years
showcode	Show codes		
showcode showvar	Show variable names	Syntax	selyear, years ifile ofile
	Show variable names Show levels	selseas	Select seasons
showlevel		Syntax	selseas,seasons ifile ofile
showyear	Show years	seldate	Select dates
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showdate	Show dates	sellonlatbox	Select lon/lat box
showtime	Show time steps	Syntax	sellonlatbox,lon1,lon2,lat1,lat2 ifile ofile
Syntax	<pre><operator> ifile</operator></pre>	selindexbox	Select index box
vardes	Variable description	Syntax	selindexbox,idx1,idx2,idy1,idy2 ifile ofile
griddes	Grid description	Dyneax	One on the control of the contr
	Vertical coordinate table		
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Syntax setrtomiss,rmin,rmax ifile offile		
	Syntax	setrtomiss,rmin,rmax ifile ofile
A rithmetic	. .,1	

abs	Absolute value
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
Syntax	$<\!operator\!>$ ifile ofile
addc	Add a constant
subc	Subtract a constant
mulc	Multiply with a constant
divc	Divide by a constant
Syntax	< operator >, c ifile ofile
add	Add two fields
sub	Subtract two fields
mul	Multiply two fields
div	Divide two fields
min	Minimum of two fields
max	Maximum of two fields
atan2	Arc tangent of two fields
Syntax	<pre>< operator > ifile1 ifile2 ofile</pre>
	Add multi-year monthly time averages
	Subtract multi-year monthly time averages
	Multiply multi-year monthly time averages
	Divide multi-year monthly time averages
	<pre><pre><pre><pre>coperator > ifile1 ifile2 ofile</pre></pre></pre></pre>
v	*
•	Multiply with days per month Divide by days per month
	Multiply with days per year
	Divide by days per year
Syntax	<pre><operator> ifile ofile</operator></pre>
G	
Comparison	
00	Equal
eq	Not equal
	sqr sqrt exp ln log10 sin cos tan asin acos atan Syntax addc subc mulc divc Syntax atan2 ymonadd ymonsub ymonmul ymondiv Syntax muldpm divdpm muldpy divdpy Syntax Comparison eq

\mathbf{ne}		Not equal
le		Less equal
lt		Less than
ge		Greater equal
gt		Greater than
	Syntax	< operator > ifile1 ifile2 ofile
		D 1 / /
eqc		Equal constant
nec		Not equal constant
lec		Less equal constant
ltc		Less then constant
gec		Greater equal constant
gtc		Greater then constant
	Syntax	< operator >, c ifile ofile

Condition

ifthen	If then
ifnotthen	If not then
Syntax	$<\!operator\!>$ ifile1 ifile2 ofile
ifthenelse	If then else
Syntax	ifthenelse ifile1 ifile2 ifile3 ofile

Arithmetic

expr		Evaluate expressions
	Syntax	expr,instr ifile ofile
exprf		Evaluate expressions from script file
	Syntax	ever filename ifile ofile

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í		
	ifthenc	If then constant
	ifnotthenc	If not then constant
	Syntax	<pre>< onerator > c ifile ofile</pre>

<u></u>				
Statistical val	lues	daymin	Daily minimum	
		daymax	Daily maximum	
		daysum daymean	Daily sum Daily mean	
ensmin	Ensemble minimum	dayavg	Daily average	
ensmax	Ensemble maximum	daystd	Daily standard deviation	
enssum	Ensemble sum	Syntax	<pre>< operator > ifile ofile</pre>	
ensmean	Ensemble mean Ensemble average	monmin	Monthly minimum	
ensavg ensstd	Ensemble standard deviation	monmax	Monthly maximum Monthly maximum	
ensvar	Ensemble variance	monsum	Monthly sum	
Syntax	<pre><pre>< operator > ifiles ofile</pre></pre>	monmean	Monthly mean	
fldmin	Field minimum	monavg	Monthly average	
fldmax	Field maximum	monstd	Monthly standard deviation	
fldsum	Field sum	Syntax	<pre><operator> ifile ofile</operator></pre>	
fldmean	Field mean	yearmin	Yearly minimum	
fldavg	Field average	yearmax	Yearly maximum	
fldstd	Field standard deviation	yearsum	Yearly sum	
fldvar	Field variance	yearmean	Yearly mean	
Syntax	< operator > ifile ofile	yearavg	Yearly average	
zonmin	Zonal minimum	yearstd	Yearly standard deviation	
zonmax	Zonal maximum	Syntax	<pre><operator> ifile ofile</operator></pre>	
zonsum	Zonal sum	seasmin	Seasonally minimum	
zonmean	Zonal mean	seasmax	Seasonally maximum	
zonavg	Zonal average	seassum	Seasonally sum	
zonstd	Zonal standard deviation	seasmean	Seasonally mean	
zonvar	Zonal variance	seasavg	Seasonally average	
Syntax	<pre><operator> ifile ofile</operator></pre>	seasstd	Seasonally standard deviation	
mermin	Meridional minimum	Syntax	<pre><operator> ifile ofile</operator></pre>	
mermax	Meridional maximum	ydaymin	Multi-year daily minimum	
mersum	Meridional sum	ydaymax	Multi-year daily maximum	
mermean	Meridional mean	ydaymean	Multi-year daily mean	
meravg	Meridional average	ydayavg	Multi-year daily average	
merstd	Meridional standard deviation	ydaystd	Multi-year daily standard deviation	
mervar Syntax	Meridional variance <operator> ifile ofile</operator>	Syntax	<pre><operator> ifile ofile</operator></pre>	
		ymonmin	Multi-year monthly minimum	
vertmin	Vertical minimum	ymonmax	Multi-year monthly maximum	
vertmax	Vertical maximum Vertical sum	ymonmean	Multi-year monthly mean	
vertsum vertmean	Vertical sum Vertical mean	ymonavg ymonstd	Multi-year monthly average Multi-year monthly standard deviation	
vertavg	Vertical mean Vertical average	Syntax	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	
vertstd	Vertical standard deviation	· ·	-	
Syntax	<pre>< operator > ifile ofile</pre>	yseasmin	Multi-year seasonally minimum	
selmin	Time range minimum	yseasmax yseasmean	Multi-year seasonally maximum Multi-year seasonally mean	
selmax	Time range maximum	yseasavg	Multi-year seasonally average	
selsum	Time range sum	yseasstd	Multi-year seasonally standard deviation	
selmean	Time range mean	Syntax	<pre>< operator > ifile ofile</pre>	
selavg	Time range average			
selstd	Time range standard deviation			
Syntax	$<\!operator\!>\!,\!nsets[,noffset[,nskip]]$ ifile ofile	Regression		
runmin	Running minimum	l	Detrend	
runmax	Running maximum	detrend Syntax	detrend ifile ofile	
runsum	Running sum		detrend lille ollle	
runmean	Running mean	trend	Trend	
runavg	Running average	Syntax	trend ifile ofile1 ofile2	
runstd	Running standard deviation	subtrend	Subtract trend	
Syntax	<pre><operator>,nts ifile ofile</operator></pre>	Syntax	subtrend ifile1 ifile2 ifile3 ofile	
timmin	Time minimum			
timmax	Time maximum			
timsum	Time sum	Interpolation		
timmean	Time mean Time average	remapbil	Bilinear interpolation	
timavg timstd	Time average Time standard deviation	remapbic	Bicubic interpolation	
Syntax	<pre><pre>< operator > ifile ofile</pre></pre>	remapoic	Conservative remapping	
		remapdis	Distance-weighted averaging	
hourmin	Hourly maximum	Syntax	<pre>< operator > ,grid ifile ofile</pre>	
hourmax hoursum	Hourly maximum Hourly sum	genbil	Generate bilinear interpolation weights	
hourmean	Hourly mean	genbic	Generate binnear interpolation weights Generate bicubic interpolation weights	
houravg	Hourly average	gencon	Generate obcube interpolation weights Generate conservative interpolation weights	
hourstd	Hourly standard deviation	gendis	Generate distance-weighted averaging weights	
Syntax	<pre><pre>< operator > ifile ofile</pre></pre>	Syntax	<pre>< operator >, grid ifile ofile</pre>	

remap	SCRIP grid remapping
Syntax	remap,grid,weights ifile ofile
interpolate	PINGO grid interpolation
intgridbil	Bilinear grid interpolation
Syntax	<pre>< operator > , grid ifile ofile</pre>
ml2pl	Model to pressure level interpolation
Syntax	ml2pl,plevels ifile ofile
ml2hl	Model to height level interpolation
Syntax	ml2hl, hlevels ifile ofile
inttime	Time interpolation
Syntax	inttime, date, time[,inc] ifile ofile
intyear	Year interpolation
Syntax	intyear, years ifile1 ifile2 oprefix
	*

Transformation

sp2gp		Spectral to gridpoint
sp2gpl		Spectral to gridpoint linear
gp2sp		Gridpoint to spectral
gp2spl		Gridpoint to spectral linear
	Syntax	< operator > ifile ofile
sp2sp		Spectral to spectral
	Syntax	${ m sp2sp}, trunc \; { m ifile} \; { m ofile}$
uv2dv		U and V wind to divergence and vorticity
		C and v wind to divergence and vorticity
dv2uv		Divergence and vorticity to U and V wind
	Syntax	

Formatted I/O

input	ASCII input
Syntax	input,grid ofile
inputsrv	SERVICE input
inputext	EXTRA input
Syntax	< operator > ofile
output	ASCII output
Syntax	output ifiles
outputf	Formatted output
Syntax	outputf, format, nelem ifiles
outputint	Integer output
outputsrv	SERVICE output
outputext	EXTRA output
Syntax	< operator > ifiles

Miscellaneous

Miscenaneous		
timsort	Sort over the time	
Syntax	timsort ifile ofile	
const	Create a constant field	
Syntax	const,const,grid ofile	
random	Create field with random values	
Syntax	random,grid ofile	
vardup	Duplicate variables	
Syntax	vardup ifile ofile	
varmul	Multiply variables	
Syntax	varmul,nmul ifile ofile	
gradsdes	GrADS data descriptor file	
gradsdes2	GrADS data descriptor file (version 2 map)	
Syntax	$< operator > ext{ifile}$	
rotuvb	Backward rotation	
Syntax	${f rotuvb}, u, v,$ ifile ofile	
mastrfu	Mass stream function	
Syntax	mastrfu ifile ofile	