CDO Reference Card

Climate Data Operators Version 1.5.0 March 2011

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http://code.zmaw.de/projects/cdo

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	
showtimestamp Show timestamp	
Syntax < operator > ifile	
pardes Parameter description	

Grid description

Z-axis description

Vertical coordinate table <operator> ifile

File operations

griddes

zaxisdes

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

Options

Syntax

-a	Generate an absolute time axis	
-b < nbits >	Set the number of bits for the output precision	
	(I8/I16/I32/F32/F64 for nc,nc2,nc4;	
	F32/F64 for srv,ext,ieg; 1-24 for grb,grb2)	
	Add L or B for Little or Big endian byteorder	
$-\mathbf{f} < format >$	Output format (grb,grb2,nc,nc2,nc4,srv,ext,ieg)	
-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

Information

info		Dataset information listed by parameter identifier
infon		Dataset information listed by parameter name
map		Dataset information and simple map
	Syntax	<pre><operator> ifiles</operator></pre>
sinfo		Short information listed by parameter identifier
sinfon		Short information listed by parameter name
	Syntax	<pre><operator> ifiles</operator></pre>
diff		Compare two datasets listed by parameter id
diffn		Compare two datasets listed by parameter name
	Syntax	<pre><operator> ifile1 ifile2</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 time steps
	Syntax	<pre><operator> ifile</operator></pre>

copy	Copy datasets
cat	Concatenate datasets
Syntax	< operator > ifiles ofile
replace	Replace variables
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 code numbers
splitparam	Split parammeter identifiers
splitname	Split variable names
splitlevel	Split levels
splitgrid	Split grids
splitzaxis	Split z-axes
splittabnum	Split parameter table numbers
Syntax	< operator > ifile obase
splithour	Split hours
splitday	Split days
splitmon	Split months
splitseas	Split seasons
splityear	Split years
Syntax	$< operator > ext{ifile obase}$
splitsel	Split time selection
Syntax	splitsel,nsets[,noffset[,nskip]] ifile obase

Selection

Select parameters by identifier
Delete parameters by identifier
<pre><operator>,params ifile ofile</operator></pre>
Select parameters by code number
Delete parameters by code number
< operator >, codes ifile ofile
Select parameters by name
Delete parameters by name
<pre><operator>,names ifile ofile</operator></pre>
Select parameters by standard name
selstdname,stdnames ifile ofile
Select levels
sellevel, levels ifile ofile
Select levels by index
sellevidx, levidx ifile ofile
Select grids
selgrid, grids ifile ofile
Select z-axes
selzaxis,zaxes ifile ofile
Select GRIB level types
selltype, ltypes ifile ofile
Select parameter table numbers
seltabnum,tabnums ifile ofile

seltimestep	Select time steps
Syntax	seltimestep,timesteps ifile ofile
seltime	Select times
Syntax	seltime, times ifile ofile
selhour	Select hours
Syntax	selhour, hours ifile ofile
selday	Select days
Syntax	selday,days ifile ofile
selmon	Select months
Syntax	selmon, months ifile ofile
selyear	Select years
Syntax	selyear, years ifile ofile
selseas	Select seasons
Syntax	selseas,seasons ifile ofile
seldate	Select dates
Syntax	seldate, date1[,date2] ifile ofile
selsmon	Select single month
Syntax	selsmon,month[,nts1[,nts2]] ifile ofile
sellonlatbox	Select a longitude/latitude box
Syntax	sellonlatbox,lon1,lon2,lat1,lat2 ifile ofile
selindexbox	Select an index box
Syntax	selindexbox,idx1,idx2,idy1,idy2 ifile ofile

Conditional selection

ifthen	If then	
ifnotthen	If not then	
Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>	
10:1	YC -1 1	
ifthenelse	If then else	
Syntax	ifthenelse ifile1 ifile2 ifile3 ofile	
ifthenc	If then constant	
	7.0	

ifthenc	If then constant
ifnotthenc	If not then constant
Syntax	$<\!operator\!>,\!c$ ifile ofile

Comparison

eq		Equal
ne		Not equal
le		Less equal
lt		Less than
ge		Greater equal
gt		Greater than
	Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>
eac		Equal constant
eqc		N-ttt

nec		Not equal constant
lec		Less equal constant
ltc		Less than constant
gec		Greater equal constant
gtc		Greater than constant
	Syntax	< operator >, c ifile ofile

Modification

setpartab	Set parameter table
Syntax	setpartab, table ifile ofile
setcode	Set code number
Syntax	setcode,code ifile ofile
setparam	Set parameter identifier
Syntax	setparam,param ifile ofile
setname	Set variable name
Syntax	setname,name ifile ofile
setlevel	Set level
Syntax	setlevel, level ifile ofile
setltype	Set GRIB level type
Syntax	setltype, ltype ifile ofile

setdate	Set date
Syntax	setdate, date ifile ofile
settime	Set time of the day
Syntax	settime, time ifile ofile
setday	Set day
Syntax	setday,day ifile ofile
setmon	Set month
Syntax	setmon, month ifile ofile
setyear	Set year
Syntax	setyear, year ifile ofile
settunits	Set time units
Syntax	settunits,units ifile ofile
settaxis	Set time axis
Syntax	settaxis,date,time[,inc] ifile ofile
setreftime	Set reference time
Syntax	setreftime, date, time[, units] ifile ofile
setcalendar	Set calendar
Syntax	setcalendar,calendar ifile ofile
shifttime	Shift time steps
Syntax	shifttime,sval ifile ofile
chcode	Change code number
Syntax	chcode,oldcode,newcode[,] ifile ofile
chparam	Change parameter identifier
Syntax	chparam,oldparam,newparam, ifile ofile
1	G1 : 11

	Syntax	cnparam,oloparam,newparam, iiile oille
	chname	Change variable name
	Syntax	chname,oldname,newname, ifile ofile
_	chlevel	Change level
	Syntax	chlevel,oldlev,newlev, ifile ofile
	chlevelc	Change level of one code
	Syntax	chlevelc,code,oldlev,newlev ifile ofile
	chlevelv	Change level of one variable
	Syntax	chlevelv,name,oldlev,newlev ifile ofile

setgrid	Set grid
Syntax	$\mathbf{setgrid}$, $grid$ ifile ofile
setgridtype	Set grid type
Syntax	setgridtype,gridtype ifile ofile

setzaxis	Set z-axis	
Syntax	setzaxis,zaxis ifile	ofile

setgatt	Set global attribute
Syntax	setgatt, attname, attstring ifile ofile
setgatts	Set global attributes
Syntax	setgatts,attfile ifile ofile
	Y . 1 . 1 . 1
invertlat	Invert latitudes

Syntax	invertlat ifile ofile
invertlev	Invert levels
invertiev	Invert levels
Syntax	invertlev ifile ofile

maskregion	Mask regions
Syntax	maskregion, regions ifile ofile
	Mask a longitude/latitude box
Syntax	masklonlatbox,lon1,lon2,lat1,lat2 ifile ofile

55110021	1114011101114010011,10111,10112,14011,14012 111110 011110
maskindexbox	Mask an index box
Syntax	${f maskindexbox}, idx1, idx2, idy1, idy2 \ {\tt ifile}$ ofile
setclonlatbox	Set a longitude/latitude box to constant
Syntax	${\bf setclonlatbox}, c, lon1, lon2, lat1, lat2 \ {\tt ifile} \ {\tt ofile}$
setcindexbox	Set an index box to constant
Syntax	setcindexbox.c.idx1.idx2.idv1.idv2 ifile ofile

enlarge	Enlarge fields
Syntax	enlarge,grid ifile ofile
setmissval	Set a new missing value
Syntax	setmissval,newmiss ifile ofile
setctomiss	Set constant to missing value
setmisstoc	Set missing value to constant
Syntax	< operator >, c ifile ofile
setrtomiss	Set range to missing value
setvrange	Set valid range
Syntax	<pre><operator>,rmin,rmax ifile ofile</operator></pre>

Anithmatia			ens < STAT >	Statistical values over an ensemble
Arithmetic			Syntax	<pre><pre><pre><pre><pre><pre><pre>operator> ifiles ofile</pre></pre></pre></pre></pre></pre></pre>
expr	Evaluate expressions		enspctl	Ensemble percentiles
Syntax	expr,instr ifile ofile Evaluate expressions from	serint file	Syntax	enspctl,p ifiles ofile
Syntax	exprf, filename ifile of		ensbrs	Brier score
abs	Absolute value		enscrps	Cumulative Ranked Probability score Ranked Histogram averaged over time
int	Integer value		ensrkhistspace ensrkhisttime	Ranked Histogram averaged over time Ranked Histogram averaged over space
nint	Nearest integer value		ensroc	Ensemble Receiver Operating characteristics
pow	Power		Syntax	$<\!operator\!>$ obsfile ensfiles ofile
sqr sqrt	Square Square root		fld < STAT >	Statistical values over a field
exp	Exponential		Syntax	< operator > ifile ofile
ln	Natural logarithm		fldpctl Syntax	Field percentiles
log10	Base 10 logarithm		V	fldpctl,p ifile ofile
sin cos	Sine Cosine		$\mathbf{zon} < STAT >$ Syntax	Zonal statistical values <pre><operator> ifile ofile</operator></pre>
tan	Tangent		zonpctl	Zonal percentiles
asin	Arc sine		Syntax	zonpctl,p ifile ofile
acos	Arc cosine		mer < STAT >	Meridional statistical values
reci	Reciprocal value		Syntax	$<\!operator\!>$ ifile ofile
Syntax	<pre><operator> ifile ofil</operator></pre>	е	merpctl	Meridional percentiles
addc subc	Add a constant Subtract a constant		Syntax	merpctl,p ifile ofile
mulc	Multiply with a constant		gridbox <stat< td=""><td>ÿ</td></stat<>	ÿ
divc	Divide by a constant		Syntax	<pre><operator>,nx,,ny ifile ofile</operator></pre>
Syntax	$<\!operator\!>,\!c$ ifile of	le	vert <stat></stat>	Vertical statistical values
add	Add two fields		Syntax	<pre><operator> ifile ofile</operator></pre>
sub	Subtract two fields		timsel <stat></stat>	Time range statistical values
mul div	Multiply two fields Divide two fields		Syntax	<pre><operator>,nsets[,noffset[,nskip]] ifile ofile</operator></pre>
min	Minimum of two fields		timselpctl	Time range percentiles
max	Maximum of two fields		Syntax	timselpctl,p,nsets[,noffset[,nskip]] ifile1 ifile2
atan2	Arc tangent of two fields		run <stat></stat>	Running statistical values
Syntax	<pre><operator> ifile1 ifi</operator></pre>	le2 ofile	Syntax	<pre><operator>,nts ifile ofile</operator></pre>
monadd monsub	Add monthly time series		runpctl	Running percentiles
monsub	Subtract monthly time so Multiply monthly time so		Syntax	runpctl,p,nts ifile1 ofile
mondiv	Divide monthly time serie		tim <stat></stat>	Statistical values over all time steps
Syntax	< operator > ifile1 ifi	le2 ofile	Syntax	<pre><operator> ifile ofile</operator></pre>
ymonadd	Add multi-year monthly		timpctl Syntax	Time percentiles timpctl,p ifile1 ifile2 ifile3 ofile
ymonsub	Subtract multi-year mont			
ymonmul ymondiv	Multiply multi-year mont Divide multi-year monthl		hour <stat> Syntax</stat>	Hourly statistical values <pre><operator> ifile ofile</operator></pre>
Syntax	<pre>coperator> ifile1 ifi</pre>			
ydayadd	Add multi-year daily time		hourpctl Syntax	Hourly percentiles hourpctl,p ifile1 ifile2 ifile3 ofile
ydaysub	Subtract multi-year daily		day< STAT>	Daily statistical values
ydaymul	Multiply multi-year daily		Syntax	<pre>coperator> ifile ofile</pre>
ydaydiv	Divide multi-year daily ti			Daily percentiles
Syntax	<pre><operator> ifile1 ifi</operator></pre>		daypctl	daypctl,p ifile1 ifile2 ifile3 ofile
muldpm	Multiply with days per m Divide by days per month		mon <stat></stat>	
divdpm muldpy	Multiply with days per ye		Syntax	Monthly statistical values <pre><operator> ifile ofile</operator></pre>
divdpy	Divide by days per year		monpetl	•
Syntax	<pre><operator> ifile ofil</operator></pre>	е	Syntax	Monthly percentiles monpctl,p ifile1 ifile2 ifile3 ofile
			year <stat> Syntax</stat>	Yearly statistical values <pre><operator> ifile ofile</operator></pre>
G1 - 11 - 1 - 1 - 1			yearpctl	Yearly percentiles
Statistical val	ues		Syntax	yearpctl,p ifile1 ifile2 ifile3 ofile
	able statistical functions	$\langle STAT \rangle$	seas <stat></stat>	Seasonal statistical values
minimu		min	Syntax	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
maxim	um	max sum	seaspctl	Seasonal percentiles
		mean	Syntax	seaspctl,p ifile1 ifile2 ifile3 ofile
mean		avg	yhour <stat></stat>	Multi-year hourly statistical values
mean average		I	ynour < DIAL >	iviuiti-year nourry statistical values
average variance		var	Syntax	<pre><operator> ifile ofile</operator></pre>
average variance	ed deviation	std std		*
average variance		std	Syntax yday <stat> Syntax</stat>	<pre><operator> ifile ofile Multi-year daily statistical values <operator> ifile ofile</operator></operator></pre>

ydaypctl	Multi-year daily percentiles	ml2pl	Model to pressure level interpolation
Syntax	ydaypctl,p ifile1 ifile2 ifile3 ofile	Syntax	ml2pl,plevels ifile ofile
ymon < STAT >	Multi-year monthly statistical values	ml2hl	Model to height level interpolation
Syntax	<pre>< operator > ifile ofile</pre>	Syntax	ml2hl,hlevels ifile ofile
ymonpctl	Multi-year monthly percentiles	intlevel	Linear level interpolation
Syntax	ymonpctl,p ifile1 ifile2 ifile3 ofile	Syntax	intlevel, levels ifile ofile
		inttime	Interpolation between time steps
yseas <stat></stat>	Multi-year seasonal statistical values	Syntax	inttime,date,time[,inc] ifile ofile
Syntax	<pre><operator> ifile ofile</operator></pre>	intntime	Interpolation between time steps
yseaspctl	Multi-year seasonal percentiles	Syntax	intntime,n ifile ofile
Syntax	yseaspctl,p ifile1 ifile2 ifile3 ofile	intyear	Interpolation between two years
ydrun <stat></stat>	Multi-year daily running statistical values	Syntax	intyear, years ifile1 ifile2 obase
Syntax	< operator >, nts ifile ofile		
ydrunpctl	Multi-year daily running percentiles		
Syntax	ydrunpctl,p,nts ifile1 ifile2 ifile3 ofile	Transformation	on
		sp2gp	Spectral to gridpoint
		sp2gpl	Spectral to gridpoint (linear)
Correlation		gp2sp	Gridpoint to spectral
fldcor	Correlation in grid space	gp2spl	Gridpoint to spectral (linear)
Syntax	fldcor ifile1 ifile2 ofile	Syntax	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
timcor	Correlation over time	sp2sp	Spectral to spectral
Syntax	timcor ifile1 ifile2 ofile	Syntax	sp2sp,trunc ifile ofile
DJ III	VIII.001 111101 111102 01110	dv2uv	Divergence and vorticity to U and V wind
		dv2uvl	Divergence and vorticity to U and V wind (linear)
Regression		uv2dv uv2dvl	U and V wind to divergence and vorticity
	Domession	dv2ps	U and V wind to divergence and vorticity (linear) D and V to velocity potential and stream function
regres Syntax	Regression regres ifile ofile	Syntax	<pre><pre>coperator > ifile ofile</pre></pre>
v		- Sy House	Coperator y 11110 01110
detrend	Detrend		
Syntax	detrend ifile ofile	Import/Expo	rt
trend	Trend	import_binary	Import binary data sets
Syntax	trend ifile ofile1 ofile2	Syntax	import_binary ifile ofile
subtrend	Subtract trend		
	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	import amost	
Syntax	subtrend ifile1 ifile2 ifile3 ofile	import_cmsaf	Import CM-SAF HDF5 files
	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Syntax	Import CM-SAF HDF5 files import_cmsaf ifile ofile
Syntax	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Syntax import_amsr	Import CM-SAF HDF5 files import_cmsaf ifile ofile Import AMSR binary files
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Syntax EOFs eof	subtrend ifile1 ifile2 ifile3 ofile Calculate EOFs in spatial or time space	Syntax import_amsr Syntax input	Import CM-SAF HDF5 files import_cmsaf ifile ofile Import AMSR binary files import_amsr ifile ofile ASCII input
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Syntax EOFs eof eoftime eofspatial	Subtrend ifile1 ifile2 ifile3 ofile Calculate EOFs in spatial or time space Calculate EOFs in time space Calculate EOFs in spatial space	Syntax import_amsr Syntax input Syntax inputsrv	Import CM-SAF HDF5 files import_cmsaf ifile ofile Import AMSR binary files import_amsr ifile ofile ASCII input input_grid ofile SERVICE ASCII input
Syntax EOFs eof eoftime eofspatial eof3d	Subtrend ifile1 ifile2 ifile3 ofile Calculate EOFs in spatial or time space Calculate EOFs in time space Calculate EOFs in spatial space Calculate 3-Dimensional EOFs in time space	Syntax import_amsr Syntax input Syntax inputsrv inputsrv	Import CM-SAF HDF5 files import_cmsaf ifile ofile Import AMSR binary files import_amsr ifile ofile ASCII input imput_grid ofile SERVICE ASCII input EXTRA ASCII input
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EOFs eof eoftime eof3d Syntax eofcoeff	Calculate EOFs in spatial or time space Calculate EOFs in time space Calculate EOFs in spatial space Calculate EOFs in spatial space Calculate 3-Dimensional EOFs in time space <pre>< operator > ,neof ifile ofile1 ofile2</pre> Calculate principal coefficients of EOFs	Syntax import_amsr Syntax input Syntax inputsrv inputext Syntax output Syntax	Import CM-SAF HDF5 files import.cmsaf ifile ofile Import AMSR binary files import_amsr ifile ofile ASCII input input,grid ofile SERVICE ASCII input EXTRA ASCII input EXTRA OFILE ASCII output output ifiles Formatted output
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gridarea

smooth9

gridweights

Syntax

Grid cell area

Grid cell weights

h9 9 point smoothing Syntax smooth9 ifile ofile

 $<\!operator\!>$ ifile ofile

Syntax | < operator > , grid ifile ofile

remap

remapeta

SCRIP grid remapping remap,grid,weights ifile ofile

Remap vertical hybrid level

Syntax | remapeta, vct[,oro] ifile ofile

syttax setvals.obt/al.newnil	setvals	Set list of old values to new values	eca_id	Ice days index per time period
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