

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	<operator> ifile1 ifile2 ofile
ymonadd	Add multi-year monthly time average
ymonsub	Subtract multi-year monthly time average
ymonmul	Multiply multi-year monthly time average
ymondiv	Divide multi-year monthly time average
Syntax	<operator> ifile1 ifile2 ofile
muldpm	Multiply with days per month
divdpm	Divide by days per month
muldpv	Multiply with days per year
divdpv	Divide by days per year
Syntax	<operator> ifile ofile
Statistical values	
ensmin	Ensemble minimum
ensmax	Ensemble maximum
enssum	Ensemble sum
ensmean	Ensemble mean
ensavg	Ensemble average
ensvar	Ensemble variance
ensstd	Ensemble standard deviation
Syntax	<operator> ifiles ofile
enspcl	Ensemble percentiles
Syntax	enspcl,p ifiles ofile
fldmin	Field minimum
fldmax	Field maximum
fldsum	Field sum
fldmean	Field mean
fldavg	Field average
fldvar	Field variance
fldstd	Field standard deviation
Syntax	<operator> ifile ofile
fldpcl	Field percentiles
Syntax	fldpcl,p ifile ofile
zonmin	Zonal minimum
zonmax	Zonal maximum
zonsum	Zonal sum
zonmean	Zonal mean
zonavg	Zonal average
zonvar	Zonal variance
zonstd	Zonal standard deviation
Syntax	<operator> ifile ofile
zonpcl	Zonal percentiles
Syntax	zonpcl,p ifile ofile
mermin	Meridional minimum
mermax	Meridional maximum
mersum	Meridional sum
mermean	Meridional mean
meravg	Meridional average
mervar	Meridional variance
merstd	Meridional standard deviation
Syntax	<operator> ifile ofile
merpcl	Meridional percentiles
Syntax	merpcl,p ifile ofile
vertmin	Vertical minimum
vertmax	Vertical maximum
vertsum	Vertical sum
vertmean	Vertical mean
vertavg	Vertical average
vertvar	Vertical variance
vertstd	Vertical standard deviation
Syntax	<operator> ifile ofile
selmin	Time range minimum
selmax	Time range maximum
selsum	Time range sum
selmean	Time range mean
selavg	Time range average
selvar	Time range variance
selstd	Time range standard deviation
Syntax	<operator>,nsets[,noffset[,nskip]] ifile ofile
selpctl	Time range percentiles
Syntax	selpctl,p,nsets[,noffset[,nskip]] in1 in2 in3 out
runmin	Running minimum
runmax	Running maximum
runsum	Running sum
runmean	Running mean
runavg	Running average
runvar	Running variance
runstd	Running standard deviation
Syntax	<operator>,nts ifile ofile
runpctl	Running percentiles
Syntax	runpctl,p,nts ifile1 ofile
timmin	Time minimum
timmax	Time maximum
timsum	Time sum
timmean	Time mean
timavg	Time average
timvar	Time variance
timstd	Time standard deviation
Syntax	<operator> ifile ofile
timpcl	Time percentiles
Syntax	timpcl,p ifile1 ifile2 ifile3 ofile
hourmin	Hourly minimum
hourmax	Hourly maximum
hoursum	Hourly sum
hourmean	Hourly mean
houravg	Hourly average
hourvar	Hourly variance
hourstd	Hourly standard deviation
Syntax	<operator> ifile ofile
hourpctl	Hourly percentiles
Syntax	hourpctl,p ifile1 ifile2 ifile3 ofile
daymin	Daily minimum
daymax	Daily maximum
daysum	Daily sum
daymean	Daily mean
dayavg	Daily average
dayvar	Daily variance
daystd	Daily standard deviation
Syntax	<operator> ifile ofile
daypcl	Daily percentiles
Syntax	daypcl,p ifile1 ifile2 ifile3 ofile
monmin	Monthly minimum
monmax	Monthly maximum
monsum	Monthly sum
monmean	Monthly mean
monavg	Monthly average
monvar	Monthly variance
monstd	Monthly standard deviation
Syntax	<operator> ifile ofile
monpcl	Monthly percentiles
Syntax	monpcl,p ifile1 ifile2 ifile3 ofile
detrend	Detrend
Syntax	detrend ifile ofile
trend	Trend
Syntax	trend ifile ofile1 ofile2
subtrend	Subtract trend
Syntax	subtrend ifile1 ifile2 ifile3 ofile
Interpolation	
remapbil	Bilinear interpolation
remapbic	Bicubic interpolation
remapcon	Conservative remapping
remapdis	Distance-weighted averaging
Syntax	<operator>,grid ifile ofile
genbil	Generate bilinear interpolation weights
genbic	Generate bicubic interpolation weights
gencon	Generate conservative interpolation weights
gendis	Generate distance-weighted averaging weights
Syntax	<operator>,grid ifile ofile
remap	SCRIP grid remapping
Syntax	remap,grid,weights ifile ofile
interpolate	PINGO grid interpolation
intgridbil	Bilinear grid interpolation
Syntax	<operator>,grid ifile ofile
ml2pl	Model to pressure level interpolation
Syntax	ml2pl,p,levels ifile ofile
ml2hl	Model to height level interpolation
Syntax	ml2hl,hlevels ifile ofile
inttime	Time interpolation
Syntax	inttime,date,time[,inc] ifile ofile
intntime	Time interpolation
Syntax	intntime,n 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	sp2sp,trunc ifile ofile
dv2uv	Divergence and vorticity to U and V wind
dv2uvl	Divergence and vorticity to U and V wind (linear)
uv2dv	U and V wind to divergence and vorticity
uv2dvl	U and V wind to divergence and vorticity (linear)
Syntax	<operator> ifile ofile
yseaspctl	Multi-year seasonal percentiles
Syntax	yseaspctl,p ifile1 ifile2 ifile3 ofile
yseasmin	Multi-year seasonal minimum
yseasmax	Multi-year seasonal maximum
yseassum	Multi-year seasonal sum
yseasean	Multi-year seasonal mean
yseasavg	Multi-year seasonal average
yseavar	Multi-year seasonal variance
yseasstd	Multi-year seasonal standard deviation
Syntax	<operator> ifile ofile
ydrunmin	Multi-year daily running minimum
ydrunmax	Multi-year daily running maximum
ydrunsum	Multi-year daily running sum
ydrunmean	Multi-year daily running mean
ydrunavg	Multi-year daily running average
ydrunvar	Multi-year daily running variance
ydrunstd	Multi-year daily running standard deviation
Syntax	<operator>,nts ifile ofile
ydrunpcl	Multi-year daily running percentiles
Syntax	ydrunpcl,p,nts ifile1 ifile2 ifile3 ofile
input	ASCII input
Syntax	input,grid ofile
inputsrv	SERVICE input
Syntax	inputsrv,extra ifile
output	ASCII output
Syntax	output,files
outputf	Formatted output
Syntax	outputf,format,nelem ifiles
outputint	Integer output
outputsrv	SERVICE output
Syntax	outputsrv,extra ifile
outputext	EXTRA output
Syntax	<operator> ifiles
Formatted I/O	
input	ASCII input
Syntax	input,grid ofile
inputsrv	SERVICE input
Syntax	inputsrv,extra ifile
output	ASCII output
Syntax	output,files
outputf	Formatted output
Syntax	outputf,format,nelem ifiles
outputint	Integer output
outputsrv	SERVICE output
Syntax	outputsrv,extra ifile
outputext	EXTRA output
Syntax	<operator> ifiles
Regression	
detrend	Detrend
Syntax	detrend ifile ofile
trend	Trend
Syntax	trend ifile ofile1 ofile2
Miscellaneous	
gradsdes1	GrADS data descriptor file (version 1 GRIB map)
gradsdes2	GrADS data descriptor file (version 2 GRIB map)
Syntax	<operator> ifile

timsort	Sort over the time
Syntax	timsort ifile ofile
const	Create a constant field
Syntax	const,const,grid ofile
random	Create a field with random values
Syntax	random,grid ofile
vardup	Duplicate variables
Syntax	vardup ifile ofile
varmul	Multiply variables
Syntax	varmul,nmul ifile ofile
rotuvb	Backward rotation
Syntax	rotuvb,u,v,... ifile ofile
mastrfu	Mass stream function
Syntax	mastrfu ifile ofile
hi	Humidity index (C)
Syntax	hi ifile1 ifile2 ifile3 ofile
wct	Windchill temperature (C)
Syntax	wct ifile1 ifile2 ofile

ECA indices

eca_cdd	Consecutive dry days index per time period
Syntax	eca_cdd ifile ofile
eca_cfd	Consecutive frost days index per time period
Syntax	eca_cfd ifile ofile
eca_csu	Consecutive summer days index per time period
Syntax	eca_csu[,T] ifile ofile
eca_cwd	Consecutive wet days index per time period
Syntax	eca_cwd ifile ofile
eca_cwdi	Cold wave duration index wrt mean of reference period
Syntax	eca_cwdi[,nday[,T]] ifile1 ifile2 ofile
eca_cwfi	Cold-spell days index wrt 10th percentile of reference period
Syntax	eca_cwfi[,nday] ifile1 ifile2 ofile
eca_etr	Intra-period extreme temperature range
Syntax	eca_etr ifile1 ifile2 ofile
eca_fd	Frost days index per time period
Syntax	eca_fd ifile ofile
eca_fdns	Frost days where no snow index per time period
Syntax	eca_fdns ifile1 ifile2 ofile
eca_gsl	Growing season length index
Syntax	eca_gsl[,nday[,T]] ifile ofile
eca_hd	Heating degree days per time period
Syntax	eca_hd[,T1[,T2]] ifile ofile
eca_hwdi	Heat wave duration index wrt mean of reference period
Syntax	eca_hwdi[,nday[,T]] ifile1 ifile2 ofile
eca_hwfi	Warm spell days index wrt 90th percentile of reference period
Syntax	eca_hwfi[,nday] ifile1 ifile2 ofile
eca_id	Ice days index per time period
Syntax	eca_id ifile ofile
eca_r10mm	Heavy precipitation days index per time period
Syntax	eca_r10mm ifile ofile
eca_r20mm	Very heavy precipitation days index per time period
Syntax	eca_r20mm ifile ofile
eca_r75p	Moderate wet days wrt 75th percentile of reference period
Syntax	eca_r75p ifile1 ifile2 ofile
eca_r75ptot	Precipitation percent due to R75p days
Syntax	eca_r75ptot ifile1 ifile2 ofile
eca_r90p	Wet days wrt 90th percentile of reference period
Syntax	eca_r90p ifile1 ifile2 ofile
eca_r90ptot	Precipitation percent due to R90p days
Syntax	eca_r90ptot ifile1 ifile2 ofile