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	seltabnum,tabnum ifile ofile
selrec	Select records
Syntax	selrec, records ifile ofile
soltimosten	Select time steps
	seltimestep, timesteps ifile ofile
	Select times
1	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
	selseas,seasons ifile ofile
	Select dates
	seldate,date1[,date2] ifile ofile
sellonlatbox	Select lon/lat box
Syntax	sellonlatbox,lon1,lon2,lat1,lat2 ifile ofile
selindexbox	Select index box
Syntax	selindexbox,idx1,idx2,idy1,idy2 ifile ofile
Conditional	valention
	If then
1	If not then
Syntax	<pre><operator> ifile1 ifile2 ofile</operator></pre>
ifthenelse	If then else
Syntax	ifthenelse ifile1 ifile2 ifile3 ofile
ifthenc	
ifnotthenc	If then constant If not then constant
	Syntax selday Syntax selmon Syntax selyear Syntax selseas Syntax seldate Syntax sellonlatbox Syntax selindexbox Syntax Conditional s ifthen ifnotthen Syntax ifthenelse

Comparison		invertlat	Invert latitude
comparison		invertion	Invert longitude
eq	Equal	invertlatdes	Invert latitude description
ne	Not equal	invertiondes	Invert longitude description
le	Less equal	invertlatdata	Invert latitude data
1t	Less than	invertlondata	Invert longitude data
ge	Greater equal	Syntax	< operator > ifile ofile
gt	Greater than	masklonlatbox	Mask lon/lat box
Syntax	$<\!operator\!>$ ifile1 ifile2 ofile	Syntax	masklonlatbox,lon1,lon2,lat1,lat2 ifile ofile
eqc	Equal constant	maskindexbox	Mask index box
nec	Not equal constant	Syntax	maskindexbox,idx1,idx2,idy1,idy2 ifile ofile
lec	Less equal constant	enlarge	Enlarge fields
ltc	Less then constant	Syntax	enlarge,grid ifile ofile
gec	Greater equal constant	setmissval	Cot a manufaction and has
gtc	Greater then constant		Set a new missing value
Syntax	< operator >, c ifile ofile	Syntax	setmissval,miss 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
3.5. 110		Syntax	setrtomiss,rmin,rmax ifile ofile
Modification			

setpartab

setgrid

setzaxis

setgatt

setgatts

setgridtype

Syntax

Set grid

Syntax setgrid, grid ifile ofile

Set global attribute

Set global attributes

Syntax setgatts, attfile ifile ofile

Syntax setgridtype,gridtype ifile ofile

setzaxis, zaxis ifile ofile

setgatt, attname, attstring ifile ofile

Set grid type

Set zaxis

tab Set parameter table
Syntax setpartab,table ifile ofile

4 J-	Set code number			
setcode				
Syntax	setcode,code ifile ofile			
setvar	Set variable name			
Syntax	setvar,name ifile ofile	Arithmetic		
setlevel	Set level	Arithr	netic	
Syntax	setlevel, level ifile ofile			
setdate	Set date	expr		Evaluate expressions
Syntax	setdate, date ifile ofile		Syntax	expr,instr ifile ofile
settime	Set time	exprf		Evaluate expressions from script file
Syntax	settime, time ifile ofile		Syntax	exprf, filename ifile ofile
setday	Set day	abs		Absolute value
Syntax	setday,day ifile ofile	sqr		Square
setmon	Set month	sqrt		Square root
Syntax	setmon, month ifile ofile	exp		Exponential
setyear	Set year	ln		Natural logarithm
Syntax	•	log10		Base 10 logarithm
settunits	Set time units	sin		Sine
Syntax	settunits,units ifile ofile	cos		Cosine
settaxis	Set time axis	tan		Tangent
Syntax		asin Arc sine		Arc sine
setreftime	Set reference time	acos		Arc cosine
Syntax	setreftime, date, time ifile ofile	atan		Arc tangent
setcalendar	Set calendar		Syntax	<pre><operator> ifile ofile</operator></pre>
Syntax	setcalendar,calendar ifile ofile	addc		Add a constant
shifttime	Shift time steps	subc		Subtract a constant
Syntax	shifttime,sval ifile ofile	mulc		Multiply with a constant
chcode	Change code number	divc		Divide by a constant
Syntax	chcode,oldcode,newcode[,] ifile ofile		Syntax	<pre>< operator >, c ifile ofile</pre>
chvar	Change variable name	add		Add two fields
Syntax	chvar,ovar,nvar, ifile ofile	sub		Subtract two fields
chlevel	Change level	mul		Multiply two fields
Syntax	chlevel,oldlev,newlev, ifile ofile	div		Divide two fields
chlevelc	Change level of one code	min		Minimum of two fields
Syntax	chlevelc,code,oldlev,newlev ifile ofile	max		Maximum of two fields
chlevely	Change level of one variable	atan2		Arc tangent of two fields
Syntax	chlevelv,var,oldlev,newlev ifile ofile	ataliz	Syntax	<pre></pre> <pre>< operator > ifile1 ifile2 ofile</pre>
	, , , , , , , , , , , , , , , , , , , ,		Symax	Coperator > IIIIeI IIIIeZ OIIIe

ymonadd

ymonsub

ymonmul

Syntax

ymondiv

muldpm

divdpm muldpy divdpy Add multi-year monthly time average

<operator > ifile1 ifile2 ofile

Multiply with days per month

Divide by days per month Multiply with days per year

Divide by days per year

<operator > ifile ofile

Subtract multi-year monthly time average $\,$

Multiply multi-year monthly time average Divide multi-year monthly time average

consmin Ensemble minimum Ensemble minimum Ensemble minimum Ensemble minimum Ensemble maximum Ensemble maximum Ensemble maximum Ensemble maximum Ensemble maximum Ensemble maximum Ensemble standard deviation Ensemble standar				
casemin	Statistical va	lues		
commin Ensemble minimum consum				
enseman ensema			-	
consume Casemble sum Casemble sum Casemble sum Casemble sum Casemble sum Casemble warange Ca			-	
sensory constant common problem noun consumers of the con				
memstd Ensemble sandard deviation ensvar Ensemble variance Syntax Coperator > filse of lie didmin flidman Field minimum flidsum Field sum flidman Field mean flidman Field mean flidway Field warrage flidst Field warrage flidst Field warrage Syntax Coperator > list of lie zonmax Zonal minimum Zonal minimum Zonal mean Zonal mean Zonal mean Zonal deviation Zonal varrage Zonst Zonal standard deviation Syntax Coperator > list of lie Zonal maximum merrmax Meridional maximum merrmax Meridional maximum merrmam Meridional assum merrman Meridional assum merrman Meridional assum merrman Meridional assum merrman Wertical minimum Xyntax Coperator > list of lie Xyntax Coperator > list of				*
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Iddinean Field mean Field standard deviation Field standard eleviation Field standard eleviation Field standard eleviation Field variance Field			Syntax	< operator > ifile ofile
Ridst Field standard deviation Field variance Fie	fldmean	Field mean	yearmin	Yearly minimum
Bitdwar Field variance Syntax Coperator > 1file ofile Syntax Seasonally minimum Seasonally minimum Seasonally mem Sea	fldavg	Field average	yearmax	Yearly maximum
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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
V	, , , , , , , , , , , , , , , , , , ,

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		** 1 ** 1 1 1
uv2av		U and V wind to divergence and vorticity
dv2uv		U and V wind to divergence and vorticity 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