GODIVA DRIVER OPTIONS

Comment line	Flag value and corresponding action	
Data extraction	$0:$	no data extraction is performed
	$1:$	mapping data as if depth units were meters in ODV spreadsheet
	$-1:$	use pressure coordinates and assume they are meters
	$-10:$	use pressure coordinates and transform to meters
Coastlines and boundaries contour files and UV fields	$0:$	no action is performed
	$1:$	generation of contour files of boundaries and coastlines
	$2:$	generation of advection UV files of velocities along coasts
	$3:$	generation of contour files and advection UV files
Data cleaning Relative Lenght	$0:$	no action is performed
	$1:$	cleaning data out of the mesh
	$2:$	generation of relative length (RL) fields
	$3:$	cleaning data out of the mesh and generations of RL fields
	$4:$	cleaning data set files from outliers
	$5:$	generations of RL fields and cleaning data set files from outliers
Minimal number of data in a layer	When extracting data and if the number of data is less than the flag value, uses data from any month, not available for the moment.	
Parameter optimization and vertical filtering	$0:$	no action is performed
	$1:$	estimation for each level of correlation length L parameter
	$2:$	estimation for each level of signal to noise ratio (S/N) parameter
	$-1:$	estimation and vertical filtering of L parameter
	$-2:$	estimation for each level of S/N parameter
	$3:$	estimation for each level of L and S/N parameters
	$-3:$	estimation and vertical filtering of L and S/N parameters
	$10:$	estimation of L parameter for each level using data mean distance as a minimum
	$-10:$	estimation of L parameter using data mean distance as a minimum and vertical filtering
	$30:$	estimation of S/N and L parameters for each level, using data mean distance as a minimum for L
	$-30:$	estimation and vertical filtering of S/N and L parameters, using data mean distance as a minimum for L,
Minimal L	minimal value to be considered if estimating correlation length parameter	
Maxmal L	maximal value to be considered if estimating correlation lenght parameter	
Minimal S/N	minimal value to be considered if estimating signal to noise parameter	
Maxmal S/N	maximal value to be considered if estimating signal to noise parameter	

Analysis and reference fields	$0:$	no action is performed
	$1:$	Perform analyses defined by a set of input files: `varlist`, `yearlist`, `monthlist`, `constandrefe` and the files in `input/` directory
	$2:$	generation of reference field
	$3:$	perform analyses as in 1 based on vertically filtered background
	$11:$	perform analyses using a $\log$(data)-$\exp$(analysis) transformations
	$13:$	perform analyses using the anamorphosis transformation
	$14:$	perform analyses using user definad transformation
	$21:$	perform reference fields using a $\log$(data)-$\exp$(analysis) transformations
	$23:$	perform reference fields using the anamorphosis transformation
	$24:$	perform reference fields using user defined transformation
	Adding 100 to flag values 1, 2, 11, 13 and 14 allows to perform the same action using a reference field for each layer generated on the basis of all data from the two neighbouring layers in addition to the layer data set. **Adding** 100 to flag values 2, 21 and 22 and 24 allows to perform reference fields with the same action using all data from the two neighbouring layers in addition to the layer data set	
Lowerlevel number	number of the deepest considered level	
Upper level number	number of the considered upper level	
4D netcdf files and Metadata XML metadata files genaration:	$0:$	generation of climatology 4D netcdf file and text matadata file for each year time period
	$1:$ $\&-1:$	generation of climatology 4D netcdf file and, text matadata and XML $ISO19115$ metadata, files for each year time period
	$2:$ $\&-2:$	generation of climatology 4D netcdf file and, text matadata and XML $ISO19139$ metadata, files for each year time period
	$10:$ $\&-10:$	generation of one climatology 4D netcdf file for all year time periods and text matadata and file
	$11:$ $\&-11:$	generation of one climatology 4D netcdf file for all year time periods and text matadata and XML $ISO19115$ metadata files
	$12:$ $\&-12:$	generation of one climatology 4D netcdf file for all year time periods and text matadata and XML $ISO19139$ metadata files
Gnuplot plots	1 if desired, 0 if not	
Data detrending	number of data trend groups, 0 if no detrending is wanted	