

GODIVA DRIVER OPTIONS

Comment line	Flag value and corresponding action																						
Data extraction	<table border="1" style="width: 100%;"> <tr> <td style="width: 10%;">0 :</td> <td>no data extraction is performed</td> </tr> <tr> <td>1 :</td> <td>mapping data as if depth units were meters in ODV spreadsheet</td> </tr> <tr> <td>-1 :</td> <td>use pressure coordinates and assume they are meters</td> </tr> <tr> <td>-10 :</td> <td>use pressure coordinates and transform to meters</td> </tr> </table>	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														
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Coastlines and boundaries contour files and UV fields	<table border="1" style="width: 100%;"> <tr> <td style="width: 10%;">0 :</td> <td>no action is performed</td> </tr> <tr> <td>1 :</td> <td>generation of contour files of boundaries and coastlines</td> </tr> <tr> <td>2 :</td> <td>generation of advection UV files of velocities along coasts</td> </tr> <tr> <td>3 :</td> <td>generation of contour files and advection UV files</td> </tr> </table>	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														
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Data cleaning Relative Length	<table border="1" style="width: 100%;"> <tr> <td style="width: 10%;">0 :</td> <td>no action is performed</td> </tr> <tr> <td>1 :</td> <td>cleaning data out of the mesh</td> </tr> <tr> <td>2 :</td> <td>generation of relative length (RL) fields</td> </tr> <tr> <td>3 :</td> <td>cleaning data out of the mesh and generations of RL fields</td> </tr> <tr> <td>4 :</td> <td>cleaning data set files from outliers</td> </tr> <tr> <td>5 :</td> <td>generations of RL fields and cleaning data set files from outliers</td> </tr> </table>	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										
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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	<table border="1" style="width: 100%;"> <tr> <td style="width: 10%;">0 :</td> <td>no action is performed</td> </tr> <tr> <td>1 :</td> <td>estimation for each level of correlation length L parameter</td> </tr> <tr> <td>2 :</td> <td>estimation for each level of signal to noise ratio (S/N) parameter</td> </tr> <tr> <td>-1 :</td> <td>estimation and vertical filtering of L parameter</td> </tr> <tr> <td>-2 :</td> <td>estimation for each level of S/N parameter</td> </tr> <tr> <td>3 :</td> <td>estimation for each level of L and S/N parameters</td> </tr> <tr> <td>-3 :</td> <td>estimation and vertical filtering of L and S/N parameters</td> </tr> <tr> <td>10 :</td> <td>estimation of L parameter for each level using data mean distance as a minimum</td> </tr> <tr> <td>-10 :</td> <td>estimation of L parameter using data mean distance as a minimum and vertical filtering</td> </tr> <tr> <td>30 :</td> <td>estimation of S/N and L parameters for each level, using data mean distance as a minimum for L</td> </tr> <tr> <td>-30 :</td> <td>estimation and vertical filtering of S/N and L parameters, using data mean distance as a minimum for L,</td> </tr> </table>	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 ,
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Minimal L	minimal value to be considered if estimating correlation length parameter																						
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Minimal S/N	minimal value to be considered if estimating signal to noise parameter																						
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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
<p>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.</p> <p>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</p>		
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 generation:	0 :	No climatology 4D netcdf file and no matadata file are generated
	1 :	generation of climatology 4D netcdf file and text matadata file files for each year time period
	-1 :	generation of climatology 4D netcdf with quality-check fields file and text matadata files for each year time period
	11 :	generation of one climatology 4D netcdf file for all year time periods and text matadata
	-11 :	generation of one climatology 4D netcdf with quality-check fields file for all year time periods and text matadata files
Gnuplot plots	1 if desired, 0 if not	
Data detrending	number of data trend groups, 0 if no detrending is wanted	