Output

All possible keys in the output section are listed below. There are a number of different types of output that the model can produce. See the Model Output page for a detailed listing of the format and content of each output file. In short, the following possibilities are available:

Pixel output

Most state variables and fluxes are output or each timestep for a particular location.

Model states

The model states than can be saved are not meant for analysis. They store the complete state of the system, allowing a restart of the model without having to run a long startup period.

Maps

Maps are complete fields of a particular variable (state or flux) at a particular time. These can be output periodically, but take up a lot of space for any sizeable application

Images

Images are reduced precision versions of the maps. These are convenient if you want to look at changes over time, but do not want to deal with the large data volume of the maps.

Graphics

If the source code is compiled with the -DHAVE_X11 option, you have the option to display some of the fields in real-time (while the model is running). This is very useful when you want to figure out what is going on.

`Output directory`	path for output files (string)	<required>
`Initial state directory`	directory where the initial state files are stored (string)	<required>
`Number of output pixels`	number of pixels for which output should be produced (integer)	
`North coordinate i`	north coordinate for output pixel i (double)	Number of output pixels > 0
`East coordinate i`	east coordinate for output pixel i (double)	Number of output pixels > 0

`Name i`	filename for output of pixel i; this is appended to the Output directory (string)	Number of output pixels > 0
`Number of model states`	number of model states that should be saved (integer)	
`State date i`	date for storing model state i (MM/DD/YYYY-HH)	Number of model states > 0
`Number of map variables`	number of variables for which output should be produced (integer)	
`Map variable i`	variable ID for map i (see Model Output for IDs) (integer)	Number of map variables > 0
`Map layer i`	for multi-layer variables, indicate the layer to be output (1 is the top layer) (integer)	Number of map variables > 0
`Number of maps i`	number of maps that should be produced for map variable i (integer)	Number of map variables > 0
`Map date j i`	date to output map j for variable i (j varies from 1 to Number of maps i) (MM/DD/YYYY-HH)	Number of map variables > 0
`Number of image variables`	number of variables for which image output should be produced (integer)	
`Image variable i`	variable ID for image i (see Model Output for IDs) (integer)	Number of image variables > 0
`Image layer i`	or multi-layer variables, indicate the layer to be output (1 is the top layer) (integer)	Number of image variables > 0
`Image start i`	start time for producing image output for variable i (MM/DD/YYYY-HH)	Number of image variables > 0
`Image end i`	last time for producing image output for variable i (MM/DD/YYYY-HH)	Number of image variables > 0
`Image interval i`	time interval between images in hours (float)	Number of image variables > 0
`Image upper limit i`	upper limit for scaling image output for variable i (float)	Number of image variables > 0
`Image lower limit i`	lower limit for scaling image output for variable i (float)	Number of image variables > 0
`Number of graphics`	number of variables for which graphics for which output should be produced (integer)	

| Graphics ID i | variable ID for graphic i (see Model Output for IDs) (integer) | Number of graphics > 0 |