

# Quick-Start Manual for the IWMR-model

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*For more detailed instructions see the HBF and IWRM Watershed Modelling User Guide*

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## 1. Software installation

- Run VivSetup.exe, this installs modelling software

## 2. To run an existing application

- Copy your application data under the EIAModels-folder, for instance c:\EIAModels\namton, or any other location
- To open an application go to the application folder and double click on a \*.vmp-file (IWRM model project file)
- You can also start applications through Windows EIAModels start menu or EIAModels icon on the desktop. Select "Models/Watershed IWRM" and press "OK". Select "File/open" and select a \*.vmp-file.

## 3. Creation of a new model grid

- Open EIAModels icon on desktop
- Select RLGis (Data processing on the low right corner of the dialog window) and press OK
- Save the project in a folder where you have most of your GIS data files, e.g. save namton.gip in c:\EIAModels\namton\GISdata
- Create flow layer:
  - o on the right hand side-dialog, press "Add layer" and select dem-layer, e.g. namton\_dem180.ipd,
  - o select the layer and zoom into it using the zoom-layer icon,
  - o select "GeogrComp/Flow/Compute from lowest point",
  - o activate the new flow grid
- Check river layer (flow) (GeogrComp/Flow/Check flow)
- Create RiverData layer:
  - o select the dem and river layers,
  - o select "GeogrComp/Tasks/Vmod2 - create river data"
- Check negative slope (double click the RiverData layer, select slope, edit palette) ; negative slopes are also checked and eliminated by the model, but it is better to fix the original data
- IF negative slopes are present modify DEM with the flow (GeogrComp/Flow/modify DEM using flow); no new grid layer is created, modifies the existing one
- Add soil and land use data layers (e.g. namton\_soil180.ipd and namton\_lu180.ipd)
- Create the model grid: Select all layers and select "GeogrComp/Tasks/Vmod2 - create grid"
- Save the grid in any folder, e.g. namton.vmd in c:\EIAModels\namton
- Save your gip-project file for later if modifications are needed.

## 4. Creation of a new application

- Open any \*.vmp project-file (e.g. x.vmp), select "Data/General files", select new grid-file and save the project with a new name, open the project

## 5. Setting up weather files

- Click the "Add data item"-button (yellow/green +-sign)
- Select place where you want to place the weather file, click left mouse button
- select "new WeatPoint", browse for filename, select grid->map

## 6. Setting up timeseries output points

- Click the "Add data item"-button (yellow/green +-sign), select point and select "new TsPoint"