Description of the iMOD tests

There a two types of test: default package tests and ‘real’ case test which are clips of a regional groundwater model. The different test are described in the table below.

Output of the default tests are described in the file *testbank\_out\_test\_all\_modflow\_comp\_svn%number%.txt*. The output of the testmodels of the regional models are describe in the file *testbank\_out\_test\_%modelname%\_modflow\_comp\_ svn%number%.txt.* In these text files are the for each output file (different percentile values of the difference in output) the statistics presented.

The difference in calculated head in the HFB test model can be explained.

A bugfix is implemented in the algorithm to calculate the location of the end of gen file. This explains the difference in de hfb and model with all packages combined test-model.

In and output of the default testmodel can be downloaded on the repository. The input and output the regional test model will be uploaded later this year.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Transient steady/state | cap | bnd | shd | kdw | vcw | sto | top | bot | khv | kva | kvv | pwt | ani | hfb | wel | drn | riv | evt | ghb | rch | olf | chd | isg | sft |
| **Default test** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| imodflow\_ani.run | Steady/state |  | X | X | X | X |  |  |  |  |  |  |  | X |  | X |  |  |  |  |  |  |  |  |  |
| imodflow\_chd.run | Steady/state |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |
| imodflow\_drn.run | Steady/state |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |
| imodflow\_evt.run | Steady/state |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |
| imodflow\_ghb.run | Steady/state |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |
| imodflow\_hfb.run | Steady/state |  | X | X | X | X |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |  |
| imodflow\_isg.run | Steady/state |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |
| imodflow\_olf.run | Steady/state |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |
| imodflow\_rch.run | Steady/state |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |
| imodflow\_riv.run | Steady/state |  | X | X | X | X |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |
| imodflow\_wel.run | Steady/state |  | X | X | X | X |  |  |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  |  |
| imodflow\_all.run | Steady/state |  | X | X | X | X |  |  |  |  |  |  |  | X | X | X | X | X | X | X | X | X | X | X |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Regional models** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ibrahym | Steady/state |  | X | X |  |  |  | X | X | X | X | X |  | X | X | X | X | X |  |  | X | X |  |  |  |
| Ibrahym | Transient | X | X | X |  |  | X | X | X | X | X | X |  | X | X | X | X | X |  |  |  | X | X | X |  |
| Mipwa | Transient | X | X | X | X | X | X |  |  |  |  |  | X | X |  | X | X | X |  |  |  | X | X |  |  |
| Azure | Transient | X | X | X | X | X | X |  |  |  |  |  |  | X |  | X | X | X |  |  |  |  | X | X | X |

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