

Daily Report 7

Date: 2nd of March

Topics of the day

Work done by the team members:

1. **ISIS** :

We ran our model in ISIS. While doing this, several errors occurred when we implemented our own detailed MikeSHE-hydrograph as upstream boundary condition. Therefore, we chose to do further calculations using a simplified hydrograph.

We examined the following effects in the ISIS-model:

- Effect on the flow of the removal of weirs
- Effect of the decreasing of flow resistivity
- Effect of adapting of cross-sections (including flood plains)

The results were the following:

- There is a small increase in the flow when you remove a weir. This increase is very small.
- A decreasing resistance will make the peak in the hydrograph come earlier. A change in resistance has no influence on the peakvalue.

2. **Mike Flood:**

While trying to run the Mike Flood model, we had problems with full lower reach. Therefore, we cut off the first 10 kilometers. We ran the model with the 75m topography and we finally got a flood map.

3. **Mike11:**

We tried to change parameters (especially roughness) in the Mike11-model and evaluated the effect.

4. **MikeSHE:**

We finished the MikeSHE-report.

5. **Presentation special topic:**

We had an interesting discussion with prof. Cunge on our special topic. We pointed out the keypoints as a guideline for our presentation.

Work for tomorrow and thursday

Tomorrow everyone will try to work on the final report and the presentation.

1. Report

The division was made as follows (the missing names will be filled in during the day tomorrow):

- Engineering report:
 - ➔ Poh Hoon puts everything together
 - ➔ Introduction :
 - ➔ Geological + economic + ...: Morgan
 - ➔ River management (effect of solutions/structures/...): Albert Guido
 - ➔ Discussion :
- Collaboration report:
 - ➔ Introduction + remarks: Roland
 - ➔ everyone writes some lines on his personal experience in the web collaboration