MWS Capstone Project - Monthly Update

Project:	Representation of spatial heterogeneity in the land-surface hydrologic model MESH
Reporting Period:	July 2019
Date:	Not submitted
Student:	Haley Brauner

1. Work completed in the last reporting period
- Selected parameters for Scenario 2 and 3 - Green Kenue / QGIS training and setup of r2c file for Scenario 3 - Time trials for Scenarios 2 and 3 - Ran Scenario 2 and 3 full calibration models - Code model output graphs
2. Team meetings held in the last reporting period (dates, times, attendance)
July 3 - Meeting with Bruce to discuss model parameterization, report on the data preparation methodology used, and discuss the next step for increasing model complexity July 23 - Meeting with Bruce to discuss the model progress, and meeting with Dan to troubleshoot issues with the Scenario 2 setup
3. Planned work for the next reporting period
- Finish output processing from model runs and checking that they ran correctly - Take the model further - investigate an alternative methodology, depending on modelling outcomes - Write the report
4. Information requested from advisors or partners
- Received assistance with model errors and constructing the drainage database file
5. Summary of any challenges
- Errors running Scenario 2 caused a sizeable hold-up - Issues with run scripts required re-running the calibrations to ensure consistent results

- Tried to set up to run Ostrich in parallel, but was not successful, mostly due to problems with Plato
6. Summary of progress against the project plan
- According to the project plan, I am about a week behind on the modelling. I will be working hard to complete the model calibration this first week of July, which will leave 3 weeks to take the model further and 2 weeks to prepare the first draft of the report for review.