Data obtained from the GRACE (Gravity Recovery And Climate Experiment) satellite mission
- Our group tracks the deformation of Earth’s landmasses based on the redistribution of water mass
- The GRACE mission consists of two satellites orbiting in tandem measuring the distance between each other, which tracks changes in gravity due to surface mass loading
- This data is then run through a suite of programs called LoadDef, converting the raw data into displacement, uncertainty, and time.

Background

Objectives
- Create a relational database in MySQL in order to store the glacier data received from GRACE
- Allow users to easily access data, run queries, and create visualizations
- Create a MATLAB program capable of funneling the data text files into a MySQL database
- Connect MATLAB with MySQL utilizing the JDBC (Java Database Connectivity) Driver
- Export the preexisting data from the text files into the database
- Create queries to allow users to interact with the database

Method

References
Grace Satellite Mission Render:
"The twin satellite Grace in front of the geoid," from GRACE - eoPortal Directory
https://directory.eoportal.org/web/eoportal/satellite-missions/g/grace

Acknowledgements
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