

# Sprint 15 1812-01

## Overview

Duration: 10 - 21 Dec (10 days)

| completed | in progress | to do |
|-----------|-------------|-------|
|           |             |       |

(vs record 49 completed sprint 12/14)

| Epic          | Story  | Owner  | Deliverables  | Link  |
|---------------|--|--|---|---|
| SeisFinder    | <div>1. Simplify 'hazard' &amp; 'deagg' code</div> <div>2. GM selection plotting</div> <div>3. Several test cases to check usability</div> <div>4. Station based IMDB research (seems silly to only use cache files and the IMDB once)</div>   | <div>Viktor</div> <div>Karim</div> <div>Sung</div>   | <div>simplify functions further, no longer separate single_starter /multi_starter</div> <div>Plots produced with GM selection output</div> <div>Tests to run with comparison outputs/plots</div> <div>IMDB used without cache files if research shows this is viable</div> <div>(depends on parallel hdf5, which is missing on Mahuika)</div> |   |
| SimWorkflow   | <div>1) Cybershake 18p6</div> <div><div>a) Run a test simulation on the new folder structure</div><div>b) Install 18p9 and manually verify install</div><div>c) Run single fault (Hope) of Cybershake</div><div>d) Run all Cybershake v18p6p1</div></div> <div>2) GM Sim Versioning</div> <div><div>a) Params (py to yaml)</div><div>b) Version templates created</div><div>c) Install specifies a version template to use</div></div> | <div>Melody</div> <div>Jason</div> <div>Jonney</div> |   | <div>re-running cybershake v18p6</div> <div>GM Sim Versioning</div> <div>4. Create dummy templates for each level of yaml annd Clean up</div> |
| WC Estimation | <div>1) Collect metadata + WC estimator (Done)</div> <div>2) Number of cores (Done)</div> <div>3) Usage locations (submit scripts) (In Progress)</div> <div>4) Estimation for folder srf/vm 's (To do)</div> <div>5) Create actual pre-trained for maui (requires maui data)</div>   | <div>Claudio</div>                                   | <div>Allow easy estimation of wall clock time for LF, HF, BB</div>  | <div>WCT estimation</div>   |

|         |   |  |   |  |
|---------|---|--|---|--|
| Misc    | <p>1) Run a Kaikoura simulation and provide Xavier with the outputs in the requested format</p> <p>2) Compile new NZVM</p> <p>3) plot_stations on Mahuika</p> <p>4) Core hour analysis tools</p> <p>5) File cleanup</p> |  | <p>NZVM has been compiled for Maui and Mahuika. Cybershake VM generation scripts will need to be updated as needed.</p> <p>plot_stations.py produces PNG output on mahuika</p> <p>Develop tools to generate im plots (needs checkpointing and ability to take paths as variables)</p> <p>Compile ffmpeg to be able to generate animations</p> <p>133,000 core hours used in the last week. 14,000 used in the last 24 hours</p> <p>Liase with NeSI for filesystem / permission changes.</p> <p>Hoby / Ahsan's 5 million files have been archived and we are at 74% file usage</p> |  |
| Backlog | 1) Metadata analysis  |  |   |  |