

# Sprint 23 1904-02

## Overview

Duration: 15 Apr - 26 (6 days: 5 days effective)

completed	in progress	on hold	to do

(vs record 61 completed sprint 19)

Epic	Story	Owner	Deliverables	Link
Validation	<p>regression testing with master against Robin's validation benchmark</p> <ol style="list-style-type: none"><li>[Timeseries] Enable LF to output Acceleration ascii files</li><li>Script to enable LF runs to Calculate IM</li></ol> <p>BB calculation simply reformats LF or HF if either one is missing. ()</p> <p>(Plan : 2-3 hours)</p> <p>Restart dumping large amount of data: Upon successful completion of LF, remove checkpoint files</p>	Claudio	<p>Part of e2e test - minor issues emerged</p> <ul style="list-style-type: none"><li>LF completion test now checks for zero values in the output</li></ul> <p><b>(HF not running reliably : NeSI issue - suspected broken nodes - reproducible by NeSI crew : to alert Brendon)</b></p> <p><b>(HF seed change doesn't affect the result - using default seed)</b></p> <p>LF-only/HF-only runs verbally planned. Need written plan - also to figure out what 'BB' features are required.</p> <p>Restart cleaned up on successful completion of LF</p>	
Cybershake	<p>Subduction cybershake (v19p4) from NZFM (just subduction-interface)</p> <ul style="list-style-type: none"><li>Magnitude Scaling for subduction interface /slab faults</li><li><b>BB/IMCalc</b></li><li><b>HF finding bugs.</b></li><li><b>Verify new VM (by plots)</b></li><li><b>Stoch file errors with 2km (Robin suggested to try 4 km dx/dy instead )</b></li><li>SRF validation for 5.4.2 (Shallow Crustal &amp; subduction)<ul style="list-style-type: none"><li>50 srf - Single Fault (any) : check stats for consistency - 4 cases</li></ul></li><li><b>Wiki Page for CS 19p5</b><ul style="list-style-type: none"><li><b>New/Maybe/No science for CS</b></li><li>Shallow crustals first, subduction later</li></ul></li><li><b>Run GMSimViz (Hik)</b></li></ul>	Jason	<p><b>(BB/IMCalc done for FiordSZ09 which revealed Fd-station list issue (rotation not considered))</b></p> <p><b>(HF doesn't run for unknown reason: Subduction HF bug finding has been shelved in lieu of potential 'fixes' with new SRF generation or larger dx/y in stoch. Issue found with HikWelMax, HikRauk)</b></p> <p><b>(4km dx/dy works for generating Stoch File, but not 2km. Waiting for new subduction SRFGen (RG) before testing further.)</b></p> <p><a href="#">Cybershake v19p5</a></p> <p>GMSimViz for HikWelMax takes &gt;1.5 weeks to run on 12 cores on Hypocentre. Should re-evaluate running it for longer duration sims as a diagnostic.</p>	
Slurm Workflow	<ul style="list-style-type: none"><li>Plan Submission of SRF / VM on a realisation by realisation level</li><li>Remove outdated workflow from NHM2SRF</li><li>Change HYP01 REL01 in generation / post process code</li><li>Remove Cybershake configuration file (.json)</li><li><b>(Leave)</b></li></ul>		<p><b>(Low priority)</b></p> <p>Version parameter removed from cybershake config, awaiting pull request.</p>	
SeisFinder	<p><b>Fix disaggregation</b></p> <p><b>Developing unit test/ regression test : laundry list of testing (Claudio to get involved)</b></p> <p><b>Discuss User-class (general purpose, early access, internal)</b></p> <p><b>Upload Waveform for 1 station (prototype)</b></p> <p>Test AWS lambda + S3 for waveform retrieval</p> <p>Ground motion integration</p>	Viktor / Sung	<p>(Disaggregation issue fixed, BB done sanity check)</p> <p>2 &amp; 3) <a href="#">SeisFinder Test &amp; Release Plan</a></p>	
Test	<p>e2e_test:</p> <ol style="list-style-type: none"><li>source generation in validation</li><li><b>ensure that different GMSim versions can be handled</b></li></ol>	Claudio  Melody	<p><b>(GMSim versions test - pull request pending)</b></p>	

Ground failure	<b>Probability calculations for Jessee 17/ Zhu16 general (to be verified)</b> (1 day analysis)  Investigate shp files	James /Jason	<i>(Verified and checked.)</i>  <i>(Waiting on Liam / Amelia for confirmation to run new version of infrastructure files / provide additional verification.)</i>	
Dashbo ard	<b>Plan feature extension for allocation period</b>		<i>(Planned - New DB schema implemented. Just needs frontend / presentation layer work.)</i>	
Bug fixes	<b>1. Version number for GMSim workflow can be any string</b> <b>2.</b> Reduce extents for VMs out of (165,180) longitude range (June, Ethan)		<b>1.</b> Done (mystery developer) <b>2.</b> Resolved with temporary fix. Ensure that SRF bounds are within VM domain as a part of vm validation.	