

# Sprint 26 1905-03

## Overview

Duration: 27 May - 07 June (9 days due to Queens Birthday on 2nd Monday)

completed	in progress	on hold	review	to do
41	5	4		7

(vs record 61 completed sprint 19)

Epic	Story	Owner	Deliverables	Link
Validation	<ol style="list-style-type: none"><li>1. Help Sarah/Robin as needed</li><li>2. HF/LF only (can run IM calc instead of BB)</li><li>3. 150 fault, 100 realisations (Sarah to run)</li><li>4. FD station (low priority)</li><li>5. VM generation on median Srf</li></ol>		<ol style="list-style-type: none"><li>1) Done - need to teach Sarah how to use estimation</li><li>2) Possible to run IM calc for HF/LF only runs</li><li>5) Median srf's created for perturbed srf generation</li></ol>	
Cybershake	Run Cybershake	Jason	<ol style="list-style-type: none"><li>1) HF investigation</li></ol>	<a href="#">CS v19p5 Run Log</a>
Slurm Workflow	<p>Task Management Changes:</p> <ol style="list-style-type: none"><li>1. Autosubmit wrapper to manage "one realisation per fault" tasks e.g. VM Gen / Empirical / Rrup - with configuration file</li><li>2. On error create a new task if the number retry count of the task is &gt; RETRY_COUNT_MAX</li><li>3. HF DT fix for estimation</li><li>4. Investigate Area NHM vs SRF</li><li>5. <i>Empirical pseudo validation</i></li><li>6. Subduction srf plots / MW scaling</li><li>7. Shallow crustal on 5.4.2</li><li>8. Hikurangi</li><li>9. Long E2E test per sprint</li><li>10. Delete EMOD3D restart files on successful simulation</li></ol> <p>Added new E2E test setup for 18.5.3.4 and seed sanity checking</p>	James, Jason	<ol style="list-style-type: none"><li>1) Autosubmit/queue monitor wrapper made. Rrup re enabled in automated workflow.</li><li>2) Done</li><li>3) Done</li><li>4) Done - plot changed Karim happy</li><li>5) Not done</li><li>6) Progress done - Still outstanding</li><li>7) Not done</li><li>8) Note Done</li><li>9) Added e2etest for wrapper restart. Creating test data for high realisation count run. Data ready for a mini-cybershake style run. Issue found with Maui node causing issues however.</li><li>10) Done</li></ol>	<ol style="list-style-type: none"><li>1) <a href="#">Auto submit wrapper</a></li><li>2) <a href="#">Error retry mechanism</a></li></ol>
SeisFinder	<p>Design modular architecture</p> <p>Refactor the current backend code following the new architecture</p> <p>Make hazard computed on-the-fly</p> <p>Support user-specified IM/exceedance for disaggregation</p> <p>Design authentication/authorization logic</p>	Viktor / Claudio / Daniel	<p>Backend interface completed</p> <p>Hazard calculation refactoring (almost completed) and computation is well-separated from web</p> <p>Auth0 tested</p>	<a href="#">SeisFinder Architecture</a>
Test	<p>Empirical tests</p> <ul style="list-style-type: none"><li>• Bradley_2013_sa</li><li>• CampbellBozorgina_2012</li><li>• AfshariStewart_2016</li><li>• Zhao_2006</li></ul>	<p>Melody</p> <p>Jason</p> <p>James</p>	<p>Python codes tested against matlab code—OK</p> <p>Pickled verified python codes as benchmark data</p> <p>Developed unit tests for the 4 GMM_models</p>	
Ground failure	Generate lots of data	James / Jason	<p>Amelia happy</p> <p>Issue with float rounding of lat/lon which resulted in reduced points. Bug fixed</p>	
IM_Calc	<ul style="list-style-type: none"><li>• Vahid's integration for Advanced IMs</li></ul> <p>Refactor of source to site distance calculations</p> <p>Python-TCL integration for OpenSees models</p> <p>Tidy up source-site calculations</p>	<p>Jason</p> <p>Claudio</p>	<p>1 Advanced IM workflow up to date.</p> <p>Should be able to get other IMs up to standard. And should be able to run advanced IM_calc from standard IM_calc workflow very soon.</p>	

Bug fixes	Dashboard crash due to None returned by ssh cmd Allocation period for Maui/Mahuika Preventing filter resets on page refresh	Melody Jason	Added check for unsuccessful ssh cmd, skip and retry after a sleep interval Updated new allocation period Extended page refresh interval to allow user to have enough time to read <a href="http://hypocentre:8050/">http://hypocentre:8050/</a>	
Misc	1) Help Karim generate hazard as required 2) Fix Travis 3) R_X (low priority) 4) Mgmt db performance		1) Done - new request came in 2) Resolved issue relating to test data downloading 3) Not Done 4) Investigating database access issues with large run	