

# Sprint 33 1909-01

## Overview

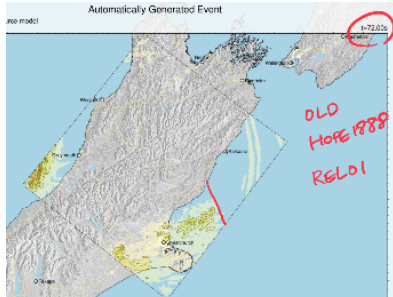

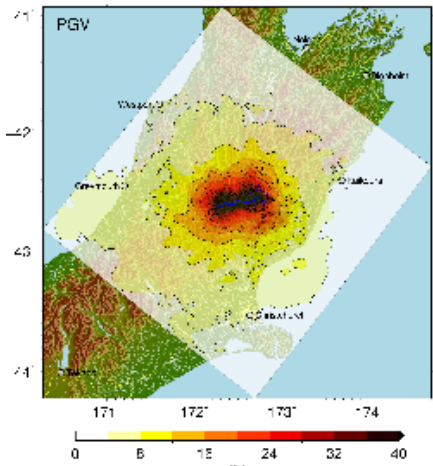
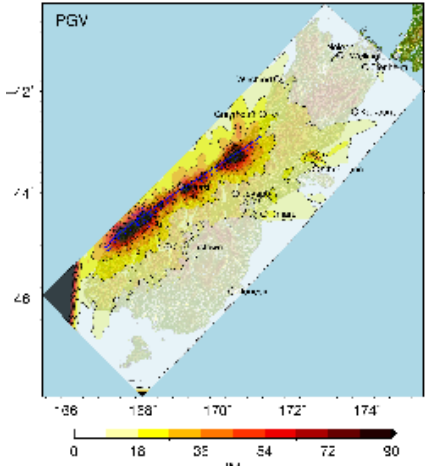
Duration: 09 Sep - 20 Sep

completed	in progress	on hold	review	to do
49	5	4	3	31

(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. Implement finite fault uncertainties (refactoring, low priority)</li><li>3. Add source perturbation step to srf generation (refactor, low p)</li><li>4. Script to add source specific parameters to sim_params.yaml (low p)</li></ol>	James	On Hold	
Cyberhake	<ol style="list-style-type: none"><li>1. Analyse faulty HF CH and talk to NeSI</li><li>2. Investigate increasing stochastic dx automatically at certain area thresholds (v low p)</li><li>3. Empirical validation (low p)</li><li>4. Investigate differences between hf dt=0.005 and dt=0.01</li></ol>	Jonney James	2, 3. On hold  4. Investigation done, differences found to be statistically negligible, so integrated into workflow	4. <a href="#">HF dt increase</a>
Slurm Workflow	<ol style="list-style-type: none"><li>1. Refactor pre-processing / install (low priority)</li><li>2. Comparison of Shallow Crustal for genslip 5.4.2 and 3.3 (back burner)</li><li>3. Debug HF for Hikurangi simulation (low p)</li><li>4. Update quick animation (plot_ts) to work on lat&gt;180</li><li>5. Update unit tests for metadata collection</li><li>6. sbatch wrapper</li></ol>	Jason James Melody	1-4. low priority  6. Unit test and S3 pickle data updated  7. Code under review	
SeisTech	Jason/Claudio to complete <ol style="list-style-type: none"><li>1. Integrate output from new Empirical DBs into ST</li><li>2. Disagg implementation and verification finished</li><li>3. Create CLI version</li><li>4. Create websocket version</li><li>5. (Unlikely to achieve) Ensemble of 5 crustal models (20%)+ B10 volcanic (100%) + Z06 (50%)/BC Hydro (50%) subduction</li></ol>	Sung, Claudio, Jason	<ul style="list-style-type: none"><li>• Seistech documentation</li><li>• Empirical Site-Source DB format finalised (and generated for DS) - generating for Faults</li><li>• Empirical parametric distributed seismicity - profiling begun.</li><li>• Writing Parametric IMDB class</li><li>• Seistech Web API (Hazard, Disagg, Site)</li><li>• Hazard analysis scripts (using API)</li><li>• Started simulated IMDB restructure</li></ul>	<a href="#">Databases</a> <a href="#">Back-end</a>
Test				
Bug fixes	<ol style="list-style-type: none"><li>1. minor gmt bug found while synchronising qcore and gmsimviz gmt.py</li></ol>			
Seismic risk	<ol style="list-style-type: none"><li>1. Max rainfall cap</li></ol>	Jason	Provided histograms to Liam.  He would like spatial plots and infrastructure outputs too.	

Empirical engine	<ol style="list-style-type: none"> <li>1. RX verification and testing</li> <li>2. RTVZ</li> <li>3. Automated testing for empirical models</li> <li>4. Create NHM2SSDDB (Site source distance database)</li> <li>5. Create SSDDDB2EMPDB (Fault based)</li> </ol>	<p>James Viktor</p>	<ol style="list-style-type: none"> <li>1. Done</li> <li>3. octave creates outputs for all permutations of input params given, python creates matching values</li> <li>4. Created, ran over the weekend. Needs validation and verification</li> <li>5. Waiting on 4</li> </ol>	<ol style="list-style-type: none"> <li>1. <a href="#">Rx</a></li> </ol>
------------------	---	-------------------------	---	---

<p>Misc</p>	<ol style="list-style-type: none"><li>1. Simulation Atlas</li><li>2. GMSimViz rotation and zoom</li><li>3. Run animation and pgv map for old AlpineF2K and Hope, and re-run with new offshore basin NZMV (2.03)</li><li>4. plot_stations script that doesn't use a complex, hardly-extendable header but rather command line arguments</li></ol>	<p>Sung</p> <p>Melody</p> <p>Sung /James</p>	<ol style="list-style-type: none"><li>1. fix sr plot align issue</li><li>code tidy up and documentation</li><li>2. made an animation</li><li>4. tested functionality of new script (stations/grids/etc...) against features in old one. passed.</li></ol>	<div><p>Automatically Generated Event</p></div> <div><p>Automatically Generated Event</p></div> <div><p>IM Plot</p></div> <div><p>IM Plot</p></div>
-------------	--	--	---	--