Sprint 37 1911-01

Overview

Duration: 4 Nov - 14 Nov (9 days, Show day on 15th)

completed	in progress	on hold	review	to do
24	7	2	5	7

(vs record 61 completed sprint 19)

Epic	Story	Owner	Deliverables	Link
Validation	1. Import Stress drop per fault into pre-processing workflow 2. Refactor Combine_ims.py to be python3 and integrate with current workflow 3. Perturbate Vs30 for each realisation	James	1. Done 2. Deferred 3. Deferred 4. Assisted Sarah getting a simulation to run 5. IM discrepancy found with the new timeshift	Validation source perturbation (Source uncertainties) V2 Timeshifted waveform IMs
Cybershake	Single fault comparison for CCCC, WTES	Claudio /Jason /Sung	1. Provided IM-list for CCCC to Karim to manually verify hazard / disagg	Cybershake Checklist
Slurm Workflow	1. Modify EMOD3D v308 to allow perturbation files with any path 2. Add EMOD3D v308 to the EMOD3D repository and create relevant CMAKE files	James	Done, new built binaries (v304 and hf 5.4.5 pass e2e tests)	
SeisTech	1) Disagg gridding and plotting / Epsilon 2) Full pSA imdb uniform Hazard spectra 3) NZS 1170.5 Code 4) In-house empirical 5) Analysis tools 6) Hazard Analysis script updates 7) RP & event based Hazard maps (background task) 8) GM selection	Claudio, Jason, Daniel	1) Done with matplotlib 2) No progress (not priority) 3) Site class estimation done, distance factor estimation done, Z-Factor estimation verification in progress. Added to plotting. Adding to UHS in-progress 4) MPI optimisation still needs to be done. Generated DS for 1655 stations in 3 days, Generated Flt for 27k stations in 3 hours (source-site distance generation took 1 day) 5) Protoype scripts for event based hazard maps and IM value distribution plots for site/event combination 6) In Review (for breakdown see TeamGantt or https://quakecore.atlassian.net /browse/QSW-1724) 7) Started on Friday 8) Started (couple of commits)	Roadmap / TeamGantt
Advanced IM Calc	1 Orchestration/Integration of workflow 2 Addition of new IMs	Jonney Jason	1. Done 1.1 Test run with precomputed IM was successful 1.2 100 event in CHCH is on hold (likely to be bug in the newest BBSeis) 2. In-progress	
Bug fixes				
Seismic risk				
Empirical engine				

| Misc | 1. KISTI/TACC porting workflow code
2. Sim Atlas (2x speed + logo): upload to Youtube and link
3. Fortran HF code
4. Sbatch : push and enforce | Sung

Jonney | 1. EMOD3D successfully ran on Stampede2. Many issues & solutions added to wikipage.
2. .
3. FFT running on GPU, most of pre-fft running on GPU finishing in about a sec. Likely hardware error encountered (works on old GPU).
Test suite has multiple combinations of input, stoch to test original against new. | HPC Comparison chart |