Sprint 38 1911-02

Overview

Duration: 18 Nov - 29 Nov

completed	in progress	on hold	review	to do

(vs record 61 completed sprint 19)

Epic	Story	Owner	Deliverables	Link
Validation	1. Perturbate Vs30 for each realisation 2. Add shear wave velocity interpolation /retrieval for type 1 3. Refactor Combine_ims.py to be python3 and integrate with current workflow 4. Make branch with Sarahs version files for external review 5. Add type 2 srf gen to new pre-processing workflow (incl sheer wave) 6. Generate empirical epsilon values for perturbation runs 7. Run 5<Mw<7 validation events at 200m with type 2	James Sarah Robin	1. vs30 median and sigma reading and realisation saving added to workflow. 2. Done 3. Deferred 4. Done 5. Done 6. Deferred 7. Ready to go.	Validation source perturbation (Source uncertainties) V2 Perturbation version file format Sarahs version file
Cybershake	Single fault comparison for CCCC, WTES	Claudio/Jason /Sung		Cybershake Checklist
Slurm Workflow	1. Generate new benchmarks for the timeshifted workflow 2. Create comparison data for SCEC CS comparison paper	James	1. Mostly done 2. Done	SCEC CS comparison
SeisTech	1) Full pSA imdb uniform Hazard spectra (sim) 2) Setup AWS API 3) Setup seistech benchmark tests 4) vs30 mod calculation (low priority) 5) SiteSource DB with rrup > 200km. And Ds distance magnitude binning 6) RP and event based hazard maps 7. NZ Code - Inputs & Hazard maps	Claudio, Jason, Daniel, Viktor	2) Done, then broke AWS 3) Code changes done, AWS died during setup 4) No progress 5) Done 6) Event not done, RP done for 3/4 7) Done	Roadmap / TeamGantt Z Factor Interpolation Hazard map generation workflow (README needs minor updating) 6) http://hypocentre:8000/ 7) http://hypocentre:8080/ Full flt emp ensemble
Advanced IM Calc	1. Orchestration/Integration of workflow 2. Addition of new IMs	Jonney Jason	1. Done	Intergration of Advanced IM into automated workflow
Bug fixes				
Seismic risk				
Empirical engine	1. mat/py permutation tests pytest	Viktor Jason	Automated testing (pytest) also includes permutation tests for: ASK_2014_nga BSSA_2014_nga CB_2014_nga CY_2014_nga Mcverryetal_2006_SAgm bc_hydro_2016_subduction	Empirical Model Verification

Misc	1. Stampede2 e2e test 2. Sim Atlas: 2nd batch sims & animations 3. Fortran HF code 4. Sbatch : push and enforce	Sung Jonney Viktor	1. LF/HF/BB/IM_calc can run. IM_calc results differ 2. 2nd batch sim completed - animation in progress 3. 3x faster on CPU alone, 24x faster than before 4. Not done	1. E2E test on Stampede 2. Sim Atlas Animations 3. HF CUDA Conversion