

# Sprint 17 1901-02

## Overview

Duration: 21 Jan - 1 Feb (10 days)

completed	in progress	to do
60	5	1

(vs record 49 completed sprint 12/14)

Epic	Story	Owner	Deliverables	Link
SeisFinder	1) Event Search 2) Cloud Deployment 3) Future / Historic & Event / Site-Search 4) Compression of Empirical 5) GM Selection (Low Priority)	Viktor Karim Sung James	1) event_search_im.py retrieves ims given station, simgroup  4) empirical data stored in something like h5 but only the necessary items and as floats, not strings	<a href="#">SeisFinder : Event-search and Historic/Future data</a> <a href="#">SeisFinder AWS deployment</a> <a href="#">SeisFinder: Seismogram Data Compression for Event Search</a>
CS18.6	1) Post-processing for Karim 2) Karim queries 3) Investigate HF on Mahuika (low priority)	Melody Jonney Jason	1a) Simulation count calculator created	<a href="#">re-running cybershake v18p6</a> <a href="#">Simulation count calculator</a> <a href="#">Investigate HF scaling on Mahuika</a>
Sim Workflow	1) Run Validation using GMSimVersion func w/ 1 realisation 2) Wall clock estimation of actual vs predicted CS18p6 (both sim and total levels) 3) HF scaling investigation 4) Update Cybershake Install python3 5) Dashboard for actual core hours / HPC status to date 6) Automated submission on Mahuika 7) Binary version of EMOD3D tools, intergarte into slurm workflow etc 8) LF Vs30ref 9) Continued Sim Verification (low priority)	Robin Jonney Claudio Jason Melody	3) Simulations run. To-do: investigate differences  7) HF has been separated from EMOD3D and both have had their CMake reduced  8) Reading Vs30ref values from VM is re-enabled	<a href="#">4) HPC Dashboard</a> <a href="#">Automated submission on Mahuika</a> <a href="#">WCT estimation - Sprint 17</a> <a href="#">HF scaling investigation</a> <a href="#">Switching versions of Binary (EMOD3D, HF)</a> <a href="#">LF Vs30ref</a>
Source Uncertainties	1) Develop plan for creating all 4 createSRF.py source types & Implement Type 1 (pt-source) faults 2) Run validation w/ multiple uncertainties	James / Jason Viktor Robin / Sarah	Plan for source uncertainty for all types  Implemented for type 1	<a href="#">Source Uncertainties</a>
GroundFailure	1) Provide PGA & Liquefaction/Landslide Probability for Power Lines to Amelia for 1 realisation of AlpineF2K 2) Run groundfailure on supercomputer & run for subset of Cybershake	Jason	Scripts for getting IM and liquefaction/landslide probabilities created	<a href="#">1901 GroundFailure Infrastructure Data</a>