Cybershake v22pX

Next revision for CS - Aiming to start running in a couple of months after a few improvements to the workflow are pushed through.

"Scientific" Improvements

	Functionality	Person /Lead	To be included in this version	Might be included	Not this version
Velocity Model					
	Basin Modeling	Jason Motha	verified USER basins		
	Tomography improvements	Sung Bae		Chow NI Tomography	
	Topology			Bulldozed (current) vs Squashed Tapered (validation method)	
Tectonics					
	Subduction			Adjust 3 cm/s PGV threshold for VMs	
	Subduction Methodology Improvements	Mike			
Source Generation					
	SRF roughness			Testing with ruptures above surface to be done	
LF					
	200m simulation realisations		Initially, may do some faults at 100m		
Sim Methodology					
	Sim methodology improvements	Robin Lee		Latest Validation improvements	
Stations					
	Revised Non-Uniform Grid				Most likely not as would most likely tie in with the full vs30 version
Vs30					
	vs30 improvements	Robin Lee /Sung Bae	Vs30 real station revision (data from Liam)		
Perturbations					
	Additional Realisation Parameters (e.g. Magnitude)			Latest improvements from the perturbation workflow	
	Asperities				
Fault Sources					
	CFM/NHM/SSM/" UCERF3"	Jason Motha	Decide which source model to use		
	Realisation Counts	Jason Motha	New function that accounts for recurrence as well as Mw Potentially counting sources that have parts of their rupture in other sources		