

Repository Maturity Assessment: Ground Failure

GitHub URL: <https://github.com/ucgmsim/GroundFailure>

What is this repo about?

Calculating and plotting probabilities of landslide and liquefaction events

Repo status

README present	Yes
Is Public?	No
Number of commits	188
Last time Updated	3/04/2019

Functionalities

- Description: State how this function is used or interacts with other sw components.
- Status: (1: not working, 2: unstable, 3: works under specific condition, 4: works with known issues, 5: perfect)
- Tests: (1: none, 2: broken/outdated, 3: with limited coverage, 4: works with known issues, 5: perfect)
- Doc (1: none, 2: outdated, 3: with limited coverage, 4: mostly ok, 5: perfect) Give a link
- Frequency of use: Daily, Weekly, Monthly, Yearly, Never
- Frequency of code/req. change: Daily, Weekly, Monthly, Yearly, Never
- Bus Factor: Number of people that are familiar with the code (1-7)

Functionality	Description	Status	Known issues	Tests?	Doc?	Frequency of use	Frequency of code /req. change	Date of last code change	Bus Factor
Infrastructure im matching	Matches lat, long points to the nearest station and associated intensity measures	5		1	4	Monthly	Monthly	3/4/19	2
grd2grid	Converts csv of lat lon pgv to grid.xml to be used in rest of workflow Unneeded now for liquefaction/landslide. Still needed for PAGER.	3	Python 2	1	3	Never	Never	23/1/19	1
calculate_gf	Calculate susceptibility and coverage of landslides and liquefaction	5		1	5	Monthly	Monthly	4/4/19	2
plot liquefaction /landslide	Creates plots of landslide and liquefaction risk probabilities?	1	Doesn't work with new workflow Python 2	1	2	Never	Yearly	6/4/18	1
scripts directory	Assorted scripts from summer interns in early 2018 Area analysis, pop analysis, region analysis, cybershake probabilistic ground failure	2	Doesn't work with new workflow	1	2	Never	Never	4/2/18	0

Suggested Improvements / New Features

- Description: State how/why this will be useful
- Timeline: Estimate of how many sprints will it take to develop

Functionality	Description	Timeline
Scripts in infrastructure other than imdb point finder	No longer needed and should be removed	A few minutes
Scripts directory	Needs to be looked through for any scripts that are useful	A few days. Probably a couple of sprints to change them into python 3 and integrate with current workflows.

