

California Seismic Hazard Input Files for 2008 USGS PSHA

The California portion of the hazard input files has been put into two zip files, CA_faults.zip and CA_map.zip. The former zip file contains all of the California fault-source model input files, and the latter zip file contains the all of the California gridded-seismicity (background) model input files, along with associated input grid files. Those input grid files are in a subdirectory or subfolder called GR_DOS. The DOS designation is important. These are binary files with the –endian form appropriate for Windows and other PCs. These binary input files are not appropriate for Solaris-machine runs until they are converted using a program like swapf.c.

The fault files may be run with hazFXnga7c.f once it is compiled. The gridded files can be run with hazgridXnga2.f or with hazgridXnga3.f, as appropriate. See the run.CAmap.cshell script for which is appropriate. Some of the gridded source regions in this zip file extend outside of California, into Nevada, Arizona, and Mexico. Similarly, some of the non-California gridded source regions extend into California, for example WUSmapC and EXTmapC. To obtain a complete seismic-hazard model for California, several of the other WUS files must be run. Cascadia subduction is an important hazard contributor in northwest California.

Once all of the California source models have been run, the output files are combined with the other WUS source output files. The weights that we apply to these files and other details are contained in the folder on combining WUS seismic hazard. Several readme files discuss some of the details associated with this important topic.