ERTH 4940 Independent Study Syllabus Fall 2018

Instructor: Steven Roecker

The student will conduct research related to automated earthquake catalog generation. The student will apply novel techniques to a dataset collected in Alaska and then use the results to create a tomographic image of the subsurface.

Outcome:

The student will understand how to analyze passive source seismic data in the context of tomographic imaging.

Expectations:

The student will meet with the supervising faculty member on a weekly basis and present progress and issues with the project.

The faculty member will apprise the student on whether progress is satisfactory and appropriate actions will be taken to keep the project on a positive track.

Rubric:

The student is expected to complete work appropriate to a focused time investment of 6-10 hours per week. The goal is to select a project and develop it to the point where it can be deployed.

If the student makes a serious and intellectually appropriate effort and documents his work well, this will result in a grade of B to B+. Incomplete or improper documentation will lower the grade to a C.

If the student makes the appropriate effort, succeeds in completing sufficient progress towards generating a tomographic imaging, and completes satisfactory documentation this will result in a grade of A.