

## **README file for Rob Sohn 1995 Earthquake data files**

Original-format file name = **Sohn\_1995\_earthquakes.txt**

File with grid values converted to lat/lon/depth =  
**Sohn\_1995\_earthquakes\_lonlat\_eventdepth.txt**

### **Information**

From: Rob Reves-Sohn <rsohn@whoi.edu>  
Subject: Re: data  
Date: Tue, 18 Apr 2006 11:53:41 -0400

I've dug through my old notes and have come up with the following (for the 1995 EPR seismicity study):

283 microearthquakes detected during 100 days of monitoring  
147 of these were well-located

A hypocenter catalogue for these 147 events is attached (served as file  
**Sohn\_1995\_earthquakes.txt**).

Unfortunately some conversion is necessary as the event locations are in the local X-Y grid we used in our analysis (as opposed to lat/lon). You will be able to ignore most of the columns in the catalogue. The key columns are: 7,8,9, which have the X-Y- and Z- grid indices of the events; 10 which has the rms residual of the hypocenter analysis; and 11,12,13 which have the yymmddhh and min and sec info for the hypocenters. The X- Y- and Z- indices in columns 7,8,9 can of course be converted to lat/lon as follows:

the grid has a bottom left corner @ 9.756 deg N, 104.33355 deg W, and the depth axis starts at 2000 m below sea-level. The grid spacing is 600 m in X- and Y-, and 200 m in Z. To do the conversion you multiply the X and Y indices by 600 m and add this to the bottom left corner origin to get a lat/lon. For depth, subtract one from the depth index, multiply by 200 m, and add this to 2000 m origin to get event depth.

(Converted file served as **Sohn\_1995\_earthquakes\_lonlat\_eventdepth.txt**)

Note that we only located events along the rise axis from 49 to 51 minutes north.

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