```
pylab.rcParams['figure.figsize'] = (20, 15)
from generating_figures import india_basemap
import pickle
import pandas as pd
pd.set_option('display.max_rows', None)


pickle_files_loc = '/home/anis/Desktop/GitHub/Pesmos_Original/DataProcessing/'
station_data_from_file = pickle.load( open( pickle_files_loc+"station_data_from_file.pickle'
pesmos_stations_final_pd = pickle.load( open( pickle_files_loc+"pesmos_stations_final_pd.pic
pesmos_stations = pickle.load( open( pickle_files_loc+"pesmos_stations.pickle", "rb" ) )
pesmos_event_pd = pickle.load( open( pickle_files_loc+"pesmos_event_pd.pickle", "rb" ) )
EventsWithMagnitude = pickle.load( open( pickle_files_loc+"EventsWithMagnitude.pickle", "rb'
EventsWithMoreThanThreeRecords = pickle.load( open( pickle_files_loc+"EventsWithMoreThanThre
```

Introduction

PESMOS is a project initiated by Earthquake Engineering Department of Indian
Institute of Technology Roorkee to study the ground motion characteristics of
Himalayan earthquakes using strong motion accelerographs. The project was
funded by Department of Science and Technology (DST), Government of India.
The strong motion accelarograph network covers various region of Indian seismic
zones V, IV and some thickly populated cities of seismic zone III. Out of 298
installed accelarograms 193 station have recorded various earthquake events as
shown in Figure 1.

```
station_color = {'A':'r','B':'g', 'C':'b', 'D':'y'}
m = india_basemap('./')
for station in pesmos_stations:
    m.scatter([pesmos_stations[station]['Longitude']],[pesmos_stations[station]['Latitude']]
                s=25,latlon=True,marker='D',color= station_color[pesmos_stations[station]['Sit
m.scatter([0],[0], s=25,latlon=True,marker='D',color='r', label='Site Class A Vs30 between 7
m.scatter([0],[0], s=25,latlon=True,marker='D',color='g', label='Site Class B Vs30 between 3
m.scatter([0],[0], s=25,latlon=True,marker='D',color='b', label='Site Class C Vs30 between 2
title('Figure 1 :: Strong Motion Station of PESMOS')
legend(scatterpoints=1)
```
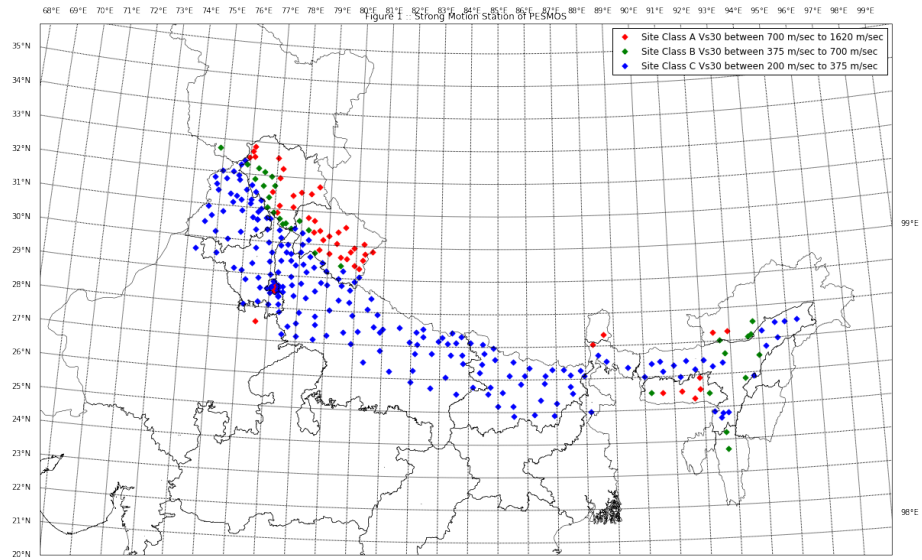
```
<matplotlib.legend.Legend at 0x7f6c9b71e790>
```

1

Figure 1: png

Accelarograph Stations

Indian Institute of Technology Roorkee install approaximately 293 strong motion accelarograph in and around the Himalayas. The sites where these accelarograph stations located are in various classes of sites. These sites are classified into Class A, Class B and Class C as shown in Figure 1. The accelarograph used was AC-63 GeoSIG triaxial force-balanced accelerometers and GSR-18 GeoSIG 18-bit digitizers with external GPS. The recording for all instruments is in trigger mode at a sampling frequency of 200 sps. The triggering threshold was initially set at 0.005 g for all the instruments. List of accelarograph stations are shown in Table 1. As one can observe from the table, only 135 station have functioned or recorded events out of 293 recording stations.

```
print "Table 1 : List of PESMOS Stations"
display(pesmos_stations_final_pd[['Station ID','Name','Location','Site Class','Site Geology'
```

Table 1 : List of PESMOS Stations

```
<tr style="text-align: right;">
  <th></th>
  <th>Station ID</th>
  <th>Name</th>
  <th>Location</th>
  <th>Site Class</th>
  <th>Site Geology</th>
```

```
    <th>Record Available?</th>
  </tr>
  <tr>
    <th>No</th>
    <th></th>
    <th></th>
    <th></th>
    <th></th>
    <th></th>
    <th></th>
  </tr>

  <tr>
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    <td>PDELH0004</td>
    <td>Dhaula Kuan</td>
    <td>Lat: 28.590,Lon: 77.170</td>
    <td>C</td>
    <td>Alluvium</td>
    <td>Yes</td>
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  <tr>
    <th>2</th>
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    <td>Raja Garden</td>
    <td>Lat: 28.660,Lon: 77.120</td>
    <td>C</td>
    <td>Alluvium</td>
    <td>Yes</td>
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  <tr>
    <th>3</th>
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    <td>Indraprastha University</td>
    <td>Lat: 28.660,Lon: 77.230</td>
    <td>C</td>
    <td>Alluvium</td>
    <td>Yes</td>
  </tr>
  <tr>
    <th>4</th>
    <td>PDELH0007</td>
    <td>IGNOU</td>
    <td>Lat: 28.490,Lon: 77.200</td>
    <td>C</td>
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```

```html
      <td>Yes</td>
    </tr>
    <tr>
      <th>5</th>
      <td>PIITR0061</td>
      <td>Paonta Sahib</td>
      <td>Lat: 30.440,Lon: 77.620</td>
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      <td>No</td>
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      <th>6</th>
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      <td>Dhumakot</td>
      <td>Lat: 29.750,Lon: 79.020</td>
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      <td>phyllites</td>
      <td>No</td>
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      <th>7</th>
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      <td>Garsain</td>
      <td>Lat: 30.050,Lon: 79.290</td>
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      <td>schist, granodiorites, gneiss</td>
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      <td>slates/siltstones/limestones/sandstones</td>
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```

```
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  <td>Lat: 30.810,Lon: 78.210</td>
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  <td>No</td>
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<tr>
  <th>12</th>
  <td>PIITR0012</td>
  <td>Udham Singh Nagar</td>
  <td>Lat: 29.000,Lon: 79.400</td>
  <td>C</td>
  <td>soil (slope washed)</td>
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  <th>13</th>
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  <td>Uttarkashi</td>
  <td>Lat: 30.730,Lon: 78.440</td>
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<tr>
  <th>14</th>
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      <th>20</th>
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      <td>Kanpur</td>
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      <td>Kannauj</td>
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      <td>Purnia</td>
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```

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  <td>Nakodar</td>
  <td>Lat: 31.120,Lon: 75.490</td>
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  <td>Pathankot</td>
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  <td>Alluvium</td>
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  <td>Khanna</td>
  <td>Lat: 30.700,Lon: 76.240</td>
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```

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    <td>Dhar Kalan</td>
    <td>Lat: 32.410,Lon: 75.800</td>
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    <td>GarhShankar</td>
    <td>Lat: 31.230,Lon: 76.130</td>
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<tr>
    <th>38</th>
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    <td>Dasua</td>
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<tr>
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    <td>Dera Baba Nanak</td>
    <td>Lat: 32.040,Lon: 75.020</td>
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    <td>Chandpur</td>
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```

```html
    <td>C</td>
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  <td>University of Delhi</td>
  <td>Lat: 28.690,Lon: 77.210</td>
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  <td>Phagwara</td>
  <td>Lat: 31.210,Lon: 75.770</td>
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  <td>Ambala</td>
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  <td>Dimapur</td>
  <td>Lat: 25.900,Lon: 93.730</td>
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  <td>No</td>
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  <td>Bongaigaon</td>
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```

```
    <td>soils (slope washed)</td>
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    <th>47</th>
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    <td>Kapkot</td>
    <td>Lat: 29.940,Lon: 79.900</td>
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    <td>dolomite/limestones</td>
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  <tr>
    <th>48</th>
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    <td>Joshimath</td>
    <td>Lat: 30.570,Lon: 79.580</td>
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    <td>No</td>
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    <td>Haldwani</td>
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```html
    <td>Yes</td>
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  <td>Laksar</td>
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  <td>Kotdwar</td>
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  <td>sandstones/shales</td>
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<tr>
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  <td>Khatima</td>
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</tr>
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  <td>BulandShahar</td>
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```

```
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      <td>Devria</td>
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      <td>Lansdown</td>
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      <td>Gaziabad</td>
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  <td>Gonda</td>
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  <td>No</td>
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<tr>
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  <td>Gangtok</td>
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  <td>Yes</td>
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  <th>64</th>
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  <td>Barpeta</td>
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    <td>Raghopur</td>
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      <td>Lat: 25.560,Lon: 87.550</td>
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      <td>No</td>
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    <td>Lat: 31.820,Lon: 75.200</td>
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      <td>Hardoi</td>
      <td>Lat: 27.400,Lon: 80.130</td>
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      <td>Alluvium</td>
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      <th>229</th>
      <td>PIITR0243</td>
      <td>Dibrugarh</td>
      <td>Lat: 27.470,Lon: 94.910</td>
      <td>C</td>
```

```html
      <td>Alluvium</td>
      <td>Yes</td>
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      <td>Lat: 26.020,Lon: 90.000</td>
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      <td>Dhemaji</td>
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      <td>Hoshiarpur</td>
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      <th>233</th>
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      <td>Guwhati</td>
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      <td>Bisalpur</td>
      <td>Lat: 28.290,Lon: 79.800</td>
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```html
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    <td>Bhim Rao Ambedkar Colleger, Delhi</td>
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```

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```

```html
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```

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```

```html
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```

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```html
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    <td>No</td>
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Seimsic Events Recorded

The PESMOS stations located as shown in Figure 1 recorded 253 events. List of events recorded by PESMOS stations and theis details are given in Table 2. Out of 253 events only 170 records have magnitudes assigned to it. The 73 events have more than three records.

```
print "Table 2 : Events Recorded by Pesmos Stations"
pesmos_event_pd

Table 2 : Events Recorded by Pesmos Stations

<tr style="text-align: right;">
  <th></th>
  <th>Date</th>
  <th>Event ID</th>
  <th>Event Name</th>
  <th>Location</th>
```

```html
      <th>Magnitude in Accl. File</th>
      <th>Recorded Stations</th>
      <th>Time Provided in Accl. File</th>
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      <td>20051214-Chamoli</td>
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      <td>5.2</td>
      <td>PIITR0027,PIITR0008,PIITR0004,PIITR0013,PIITR0...</td>
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      <td>20060331-Jhajjar</td>
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      <td>3.4</td>
      <td>PIITR0115</td>
      <td>2006-03-31 11:25:39</td>
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      <td>20060507-Jhajjar</td>
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      <td>PESMOS0134</td>
      <td>20061129-Alwar Earthquake</td>
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  <td>4.2</td>
  <td>PIITR0239</td>
  <td>2014-09-12 07:56:44</td>
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  <td>2015-11-29</td>
  <td>PESMOS0222</td>
  <td>Chamoli_29112015</td>
  <td>Lat: 30.60,Lon: 79.60</td>
  <td>4.0</td>
  <td>PIITR0022,PIITR0010,PIITR0003,PIITR0019</td>
  <td>2015-11-29 02:47:38</td>
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  <td>PESMOS0218</td>
  <td>rudp_25sept2016</td>
  <td>Lat: 30.50,Lon: 78.90</td>
  <td>3.7</td>
  <td>PIITR0020,PIITR0008,PIITR0019,PIITR0013,PIITR0...</td>
  <td>2016-09-25 21:41:36</td>
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  <th>176</th>
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  <td>PESMOS0177</td>
  <td>Dehradun_23112016</td>
  <td>Lat: 30.30,Lon: 78.00</td>
  <td>3.4</td>
  <td>PIITR0016,PIITR0011,PIITR0062,PIITR0010,PIITR0013</td>
  <td>2016-11-23 02:31:03</td>
```

```
</tr>
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  <td>PESMOS0114</td>
  <td>Nepal_01122016</td>
  <td>Lat: 29.80,Lon: 80.60</td>
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  <td>PESMOS0007</td>
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  <td>PESMOS0215</td>
  <td>Dehradun_13122016</td>
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  <td>3.9</td>
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  <td>2016-12-13 19:14:04</td>
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  <td>2016-12-19</td>
  <td>PESMOS0048</td>
  <td>Uttarkashi_19122016</td>
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  <td>3.4</td>
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  <td>2016-12-26</td>
  <td>PESMOS0187</td>
  <td>Dehradun_26122016</td>
```

```
  <td>Lat: 30.80,Lon: 77.90</td>
  <td>3.5</td>
  <td>PIITR0014,PIITR0013</td>
  <td>2016-12-26 08:45:48</td>
</tr>
```

Parsing PESMOS Records

The pesmos datas are freely available through website for download. Although
it is required for the users to obtain a log in credention for downloading data.
The log in credential could be optained through registration. After registration
web admistator will review your application and will send confirmation mail
upon successful approval of registration. After log in to wesite, the users are
required to go to Downloads tab for downloading data. The data are available in
two section. First section, "View/Download Ground Motion Reconds" provides
events from 2005 to 2014. Second section, "View/Download Earthquake Early
Warning System Data (EEWS)" provides events from 2015 to 2017. For each
event ".zip" file is available containing station records. For each station three
direction data, NS, EW and Z-directional are available. A typical format of
accelaration record file is shown below

```
Origin Time        31/03/2006 11:25:39
Lat.               28.7 N
Long.              76.8 E
Depth (Km)          22.0
Magnitude          3.4
 Region            JHAJJAR-HARYANA
 Above details taken from IMD


Station Code      ROH
Station Lat.       28.896  N
Station Long.      76.593  E
Station Height(m)  225.0
Site Class        C   Vs30 between 200 m/sec to 375 m/sec *
Record Time       31.03.2006 11:25:26.529
Sampling Rate     200. Hz
 Record Duration   29.995 Sec.
 Direction         E-W (E positive)
Max. Acceleration     4.799 cm/sec**2


  * For reference see Site Classification link of website


 Base Line Corrected and Low Pass Filtered (Cut Off at 35 Hz) Time History
 Acceleration data in cm/sec**2
```

```
 0.228
 0.017
-0.067
-0.050
-0.004
 0.018
 0.008
  .
  .
  .
```

These files are parsed using a python script.

'"python"' Program by Anis Mohammed Vengasseri anis.mhd@gmail.com https://github.com/anismhd

```
Started Date :: 20/01/2017

fname  - Should be the file name without '.ns', '.ew' or '.vt' extension

if '.' in fname:
        print "fname  - Should be the file name without '.ns', '.ew' or
```

'.vt' extension" return None NS = fname + ".ns" EW = fname + ".ew" VT = fname + ".vt" f_NS = open(NS).readlines() f_EW = open(EW).readlines() f_VT = open(VT).readlines() '" from datetime import datetime import numpy as np import pandas as pd import re

def geodetic_string_proccessor(lat_str, lon_str): if ('N' in lat_str) or ('n' in lat_str): lat = float(lat_str[:-2].strip()) elif ('S' in lat_str) or ('s' in lat_str): lat = -1.0*float(lat_str[:-2].strip()) else: lat = float(lat_str.strip()) if ('E' in lon_str) or ('e' in lon_str): lon = float(lon_str[:-2].strip()) elif ('W' in lon_str) or ('w' in lon_str): lon = -1.0*float(lon_str[:-2].strip()) else: lon = float(lon_str.strip()) return lat, lon

def time_stripper(time_str): if int(re.split('.|-|/|:',time_str)[0]) == 0: return None else: if 'UTC' in time_str: date, time, utc = time_str.split() else: date, time = time_str.split() day, month, year = re.split('.|-|/|:',date) hour, minute, second = re.split('-|/|:',time) microsecond = (float(second)-np.floor(float(second)))*10**6 second = int(np.floor(float(second))) return datetime(int(year),int(month),int(day),int(hour), int(minute), int(second), int(microsecond))

def pesmos_reader(fname): data = open(fname).readlines() event = {} event['Origin Time'] = time_stripper(data[0].strip('Origin Time').strip()) # event['Latitude'] = data[1].strip('Lat.').strip() # event['Longitude'] = data[2].strip('Long.').strip() lat_str = data[1].strip('Lat.').strip() lon_str = data[2].strip('Long.').strip() event['Latitude'], event['Longitude'] = geode-

tic_string_proccessor(lat_str, lon_str) event['Depth'] = data[3].strip('Depth (Km)').strip() event['Magnitude'] = data[4].strip('Magnitude').strip() event['Region'] = data[5].strip('Region').strip() event['Source of Event Data'] = data[6].strip() station = {} station['Code'] = data[8].strip('Station Code').strip() lat_str = data[9].strip('Station Lat.').strip() lon_str = data[10].strip('Station Long.').strip() station['Latitude'],station['Longitude'] = geodetic_string_proccessor(lat_str, lon_str) # station['Height'] = float(data[11].strip('Station Height(m)').strip()) station['Site class'] = data[12].strip('Site Class').strip() station['Record time'] = time_stripper(data[13].strip('Record Time').strip()) station['Sampling rate'] = float(data[14].strip('Sampling Rate').strip()[:-2]) station['Record_duration'] = float(data[15].strip('Record Duration').strip()[:-4]) station['Data direction'] = data[16].strip('Direction').strip() station['Data PGA'] = data[17].strip('Max. Acceleration').strip() station['Data filtering info'] = data[21].strip() station['Data unit'] = data[22].strip('Acceleration data in').strip() station['Data number'] = int(station['Sampling rate']*station['Record_duration']) station['Data series'] = np.zeros(station['Data number']) for i in range(station['Data number']): station['Data series'][i] = float(data[24+i].strip()) return event, station '"

The events recorded by PESMOS station have few issues with respect to derived values. Especially magnitude and location of event. In this section, magnitude and locations reported by PESMOS are cross verified with respect to data from USGS.

Methodology

The pes

The events reported in USGS for the region of India after 2000 are downloaded using python scripts. The data downloaded from USGS siite are parsed to obtain information on location, magnitude, magnitude scale, date and time of event etc. The parsed information are stored into a python pandas dataframe. Then,