T-aad_Test

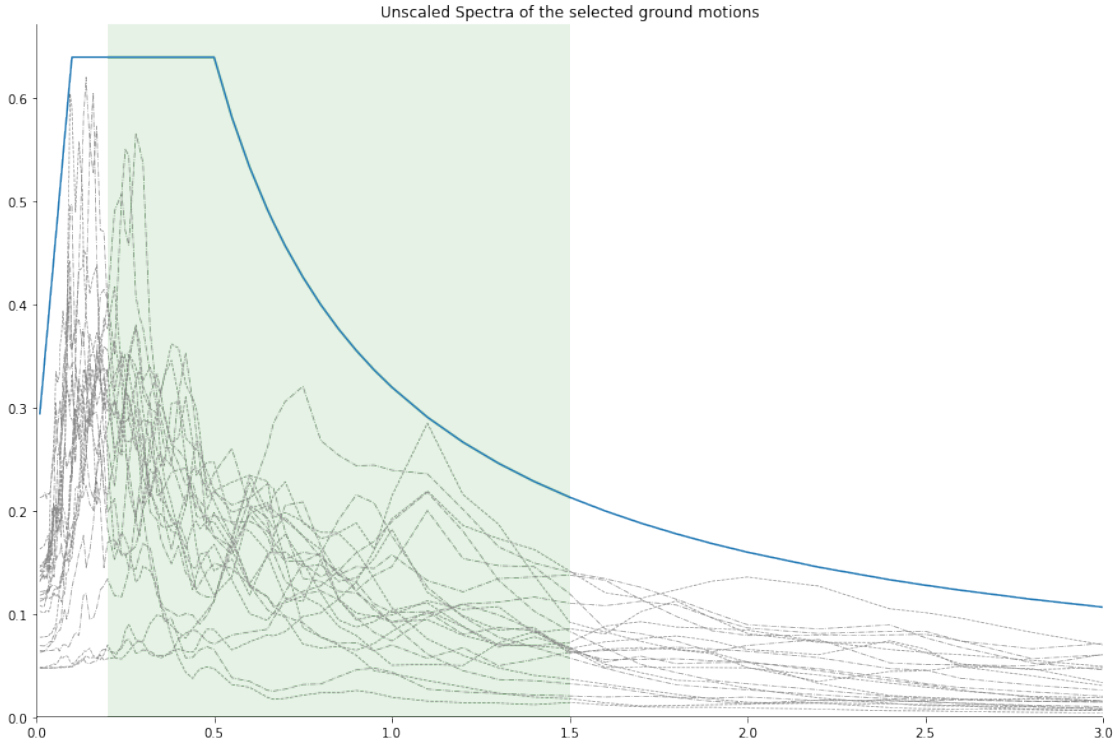
November 21, 2021

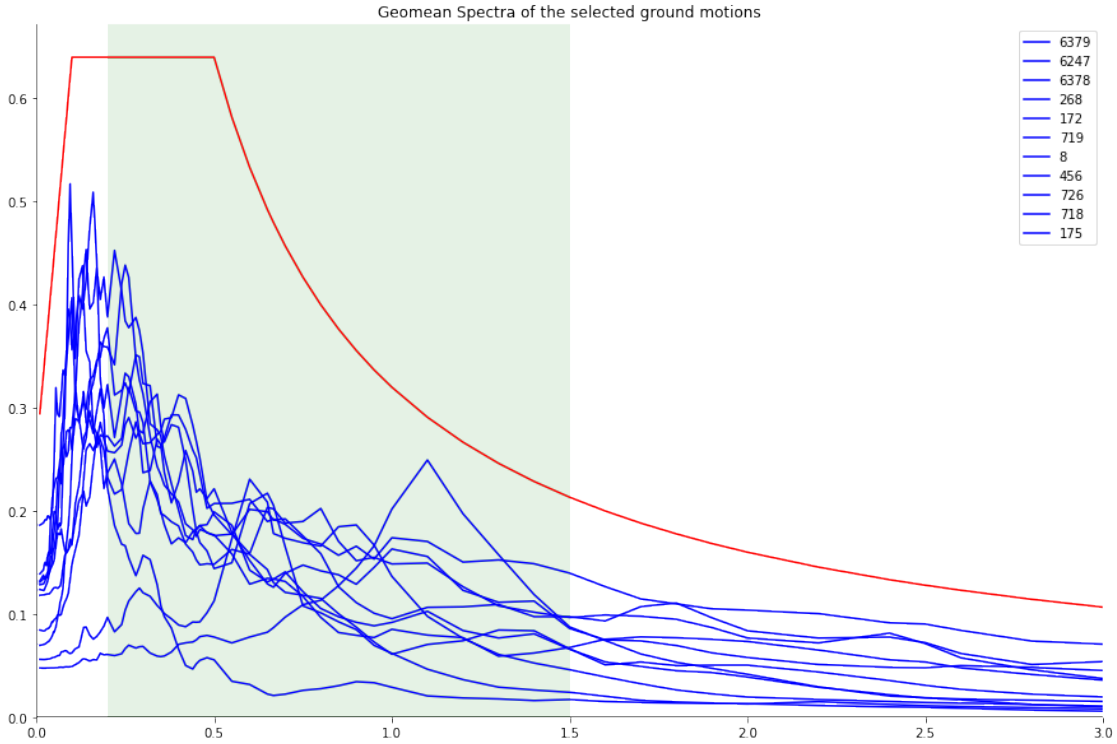
Restarted 'Python 3.8.1 64-bit ('base': conda)' kernel
Python 3.8.1 (default, Mar 2 2020, 13:06:26) [MSC v.1916 64 bit (AMD64)]
Type 'copyright', 'credits' or 'license' for more information
IPython 7.29.0 – An enhanced Interactive Python. Type '?' for help.

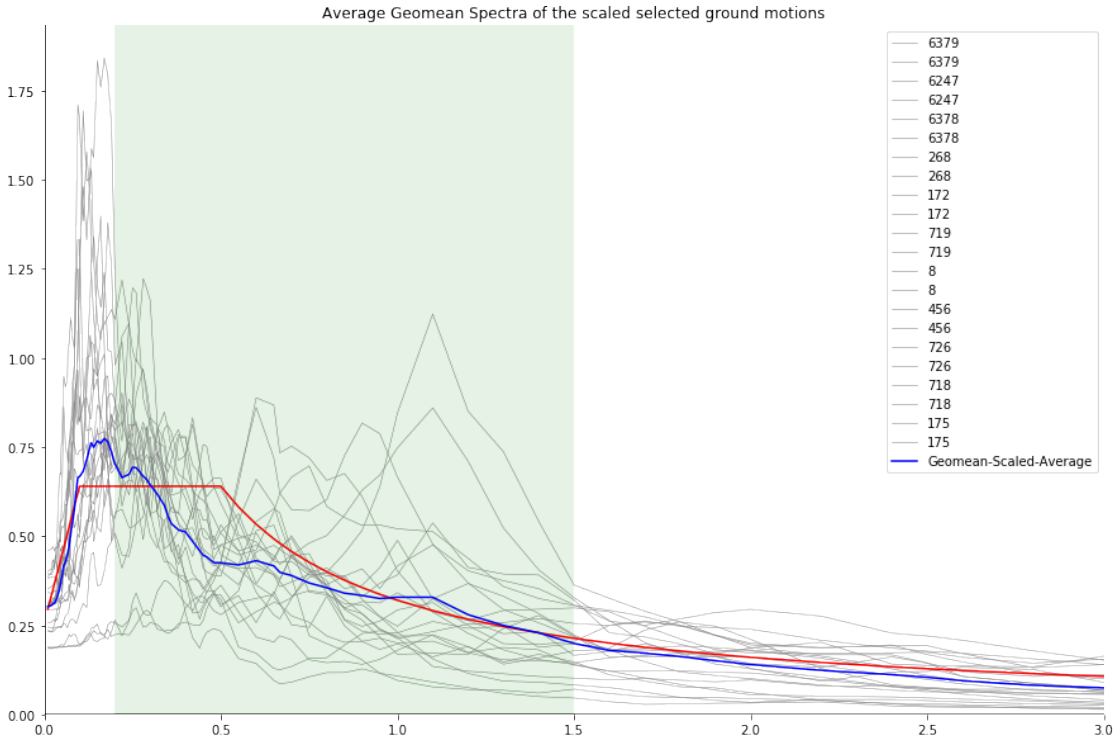
[ ]:
```
import scalepy as sp
```

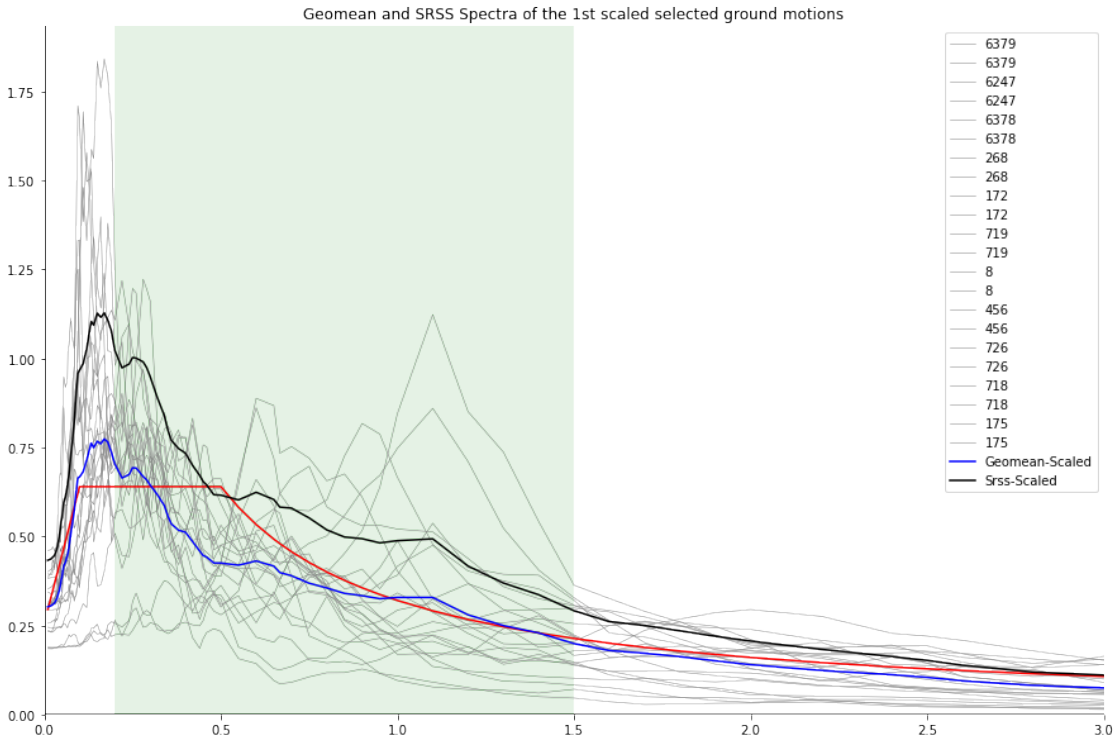
[ ]:
```
target = sp.targetSpectrum(0.8, 0.4, 'ZA')
record_keys = sp.recordSelection('6 8', '100 280', '0 250', 'Strike - Slip', '0␣
 ↪15', '0 20', '0 5', target , period = 1)
RSNList_SF_dict = sp.amplitudeScaling(record_keys, target, period = 1 )
```

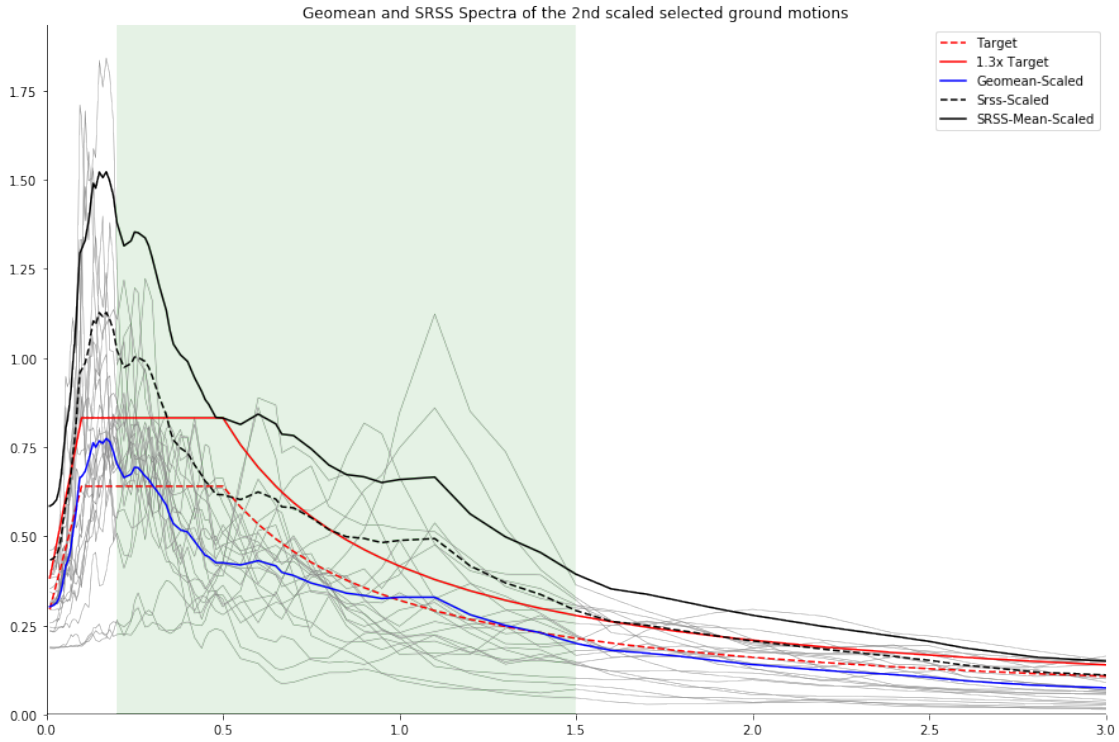
```
Total number of PEER EQE Record is = 19880
Total number of appropriate PEER EQE Record (1st selection) is = 43
Total number of appropriate PEER EQE Record (2nd selection) is = 24
--------------------------------------------------
#1 | RSN6379- "Tottori_ Japan"-
#2 | RSN6247- "Tottori_ Japan"-
#3 | RSN6378- "Tottori_ Japan"-
#4 | RSN268- "Victoria_ Mexico"-
#5 | RSN172- "Imperial Valley-06"-
#6 | RSN719- "Superstition Hills-02"-
#7 | RSN8- "Northern Calif-01"-
#8 | RSN456- "Morgan Hill"-
#9 | RSN726- "Superstition Hills-02"-
#10 | RSN718- "Superstition Hills-01"-
#11 | RSN175- "Imperial Valley-06"-
--------------------------------------------------
```


Unscaled Spectra of the selected ground motions
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.0
0.5
1.0
1.5
2.0
2.5
3.0


Geomean Spectra of the selected ground motions
6379
6247
6378
268
172
719
8
456
726
718
175
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.0
0.5
1.0
1.5
2.0
2.5
3.0


Average Geomean Spectra of the scaled selected ground motions
6379
6379
6247
6247
6378
6378
268
268
172
172
719
719
8
8
456
456
726
726
718
718
175
175
Geomean-Scaled-Average
0.00
0.25
0.50
0.75
1.00
1.25
1.50
1.75
0.0
0.5
1.0
1.5
2.0
2.5
3.0


Geomean and SRSS Spectra of the 1st scaled selected ground motions
6379
6379
6247
6247
6378
6378
268
268
172
172
719
719
8
8
456
456
726
726
718
718
175
175
Geomean-Scaled
Srss-Scaled
0.00
0.25
0.50
0.75
1.00
1.25
1.50
1.75
0.0
0.5
1.0
1.5
2.0
2.5
3.0




```
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Selected ground motions and scale factors
RSN6379 |  "Tottori_ Japan" | 5.3192
RSN6247 |  "Tottori_ Japan" | 6.6701
RSN6378 |  "Tottori_ Japan" | 5.1169
RSN268 |  "Victoria_ Mexico" | 4.516
RSN172 |  "Imperial Valley-06" | 3.8167
RSN719 |  "Superstition Hills-02" | 3.6175
RSN8 |  "Northern Calif-01" | 3.4405
RSN456 |  "Morgan Hill" | 2.9179
RSN726 |  "Superstition Hills-02" | 2.9336
RSN718 |  "Superstition Hills-01" | 3.1155
RSN175 |  "Imperial Valley-06" | 2.9259
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```