← ⇒ C ⌂   ☐ 127.0.0.1:8888/9bd33fd9-3991-4a41-b6a4-095c66295311#   ☆ ≡

IP[y]: Notebook   Basic Catalogue Demo 1   Last saved: Mar 24 5:49 PM

File   Edit   View   Insert   Cell   Kernel   Help

☐ ✂ ⎘ ☐ ↑ ↓ ⌅ ⤓ ▶ ■ | Code   ⬍ |

Adding a Source Model

The following is an area source model for the Aegean region (Weatherill & Burton, 2010) - this source model will be used in further examples

```python
In [5]:  # Source Model file
         source_model_file = 'input_data/WT2006_Aegean_Sources.xml'

         # Import the source model parser
         from hmtk.parsers.source_model.nrml04_parser import nrmlSourceModelParser

         # Load source model
         parser = nrmlSourceModelParser(source_model_file)
         source_model = parser.read_file()

         # Create a hmtk basemap with a catalogue and source model
         basemap2 = HMTKBaseMap(map_config, 'Earthquake Catalogue & Area Source Model')
         basemap2.add_catalogue(catalogue, overlay=True) # Adds the catalogue
         basemap2.add_source_model(source_model, area_border='r-', border_width=1.5) # Adds the source model
```

```
Area source - ID: 1, name: Montenegro
Area source - ID: 2, name: Albania
Area source - ID: 3, name: TRGZ
Area source - ID: 4, name: Cephalonia Transform
Area source - ID: 5, name: South Ionian
Area source - ID: 6, name: Gulf of Corinth
Area source - ID: 7A, name: West Hellenic Outer
Area source - ID: 7B, name: East Hellenic Outer
Area source - ID: 8A, name: West Hellenic Inner
Area source - ID: 8B, name: East Hellenic Inner
Area source - ID: 9, name: Cyclades
Area source - ID: 10, name: North Anatolian Fault - Main Branch
Area source - ID: 11, name: North Anatolian Fault - Southenrn Branch
```

Earthquake Catalogue & Area Source Model