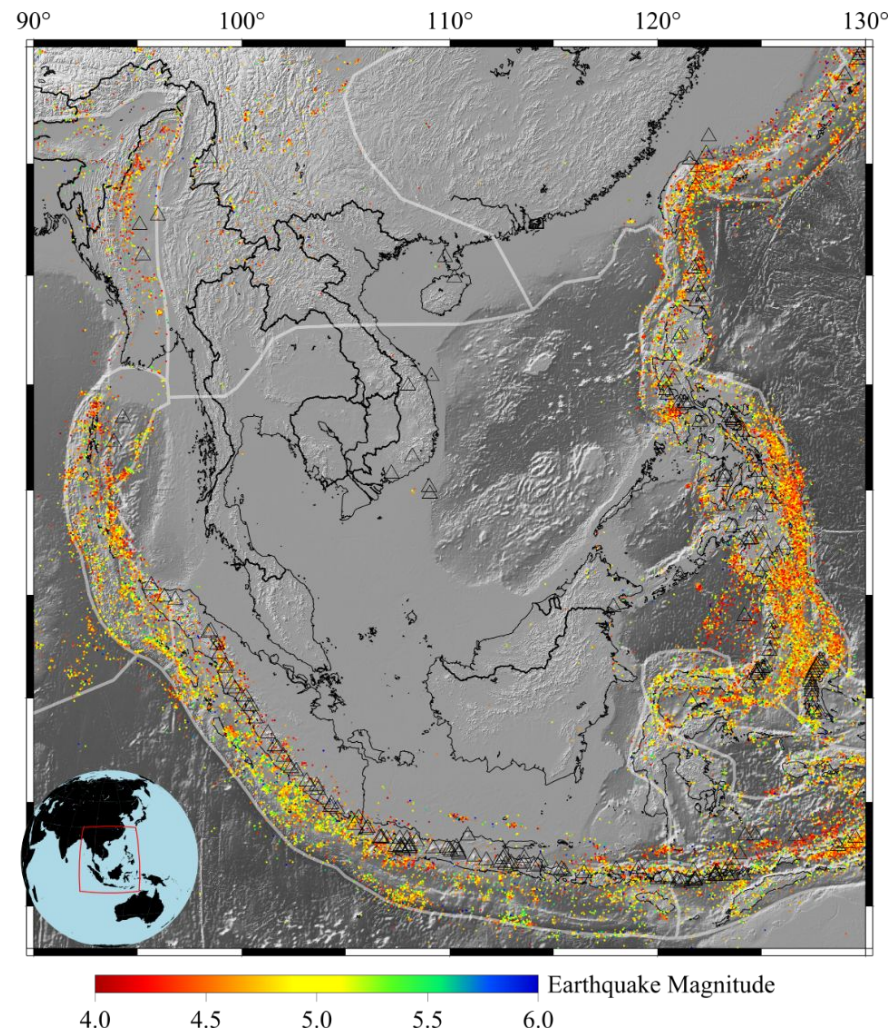
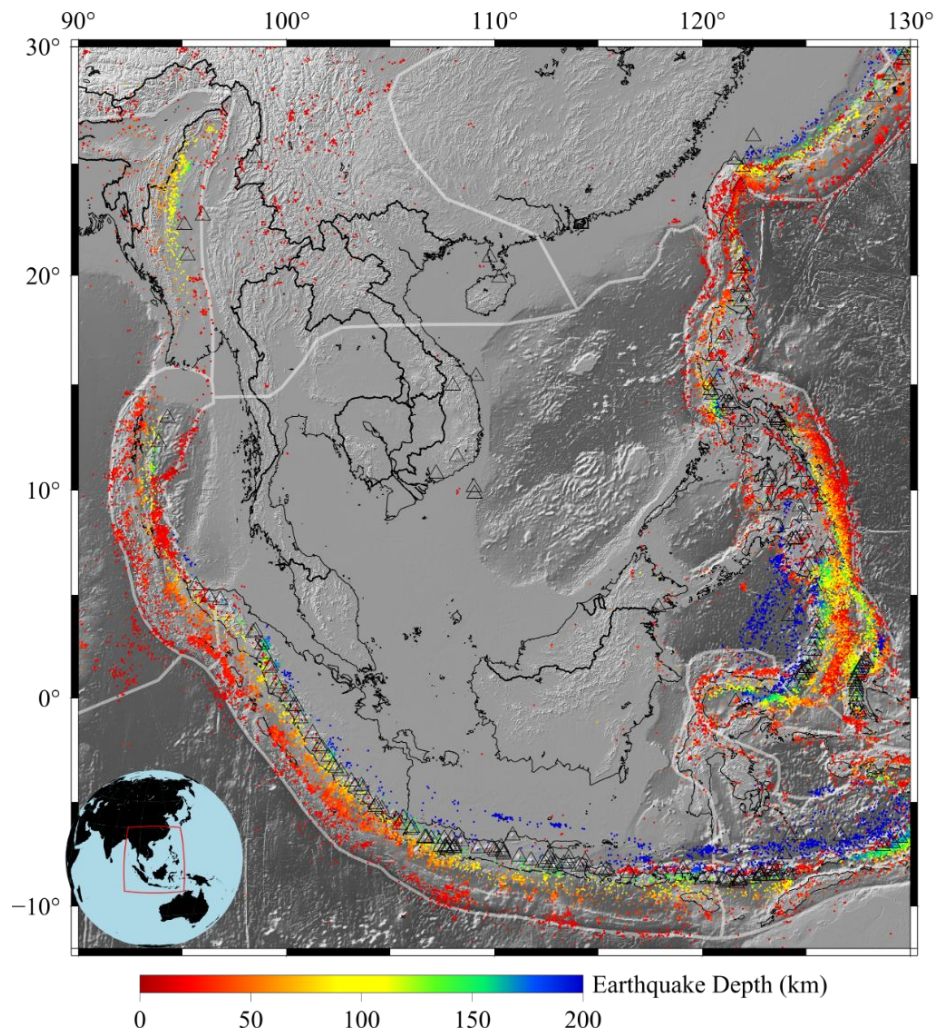
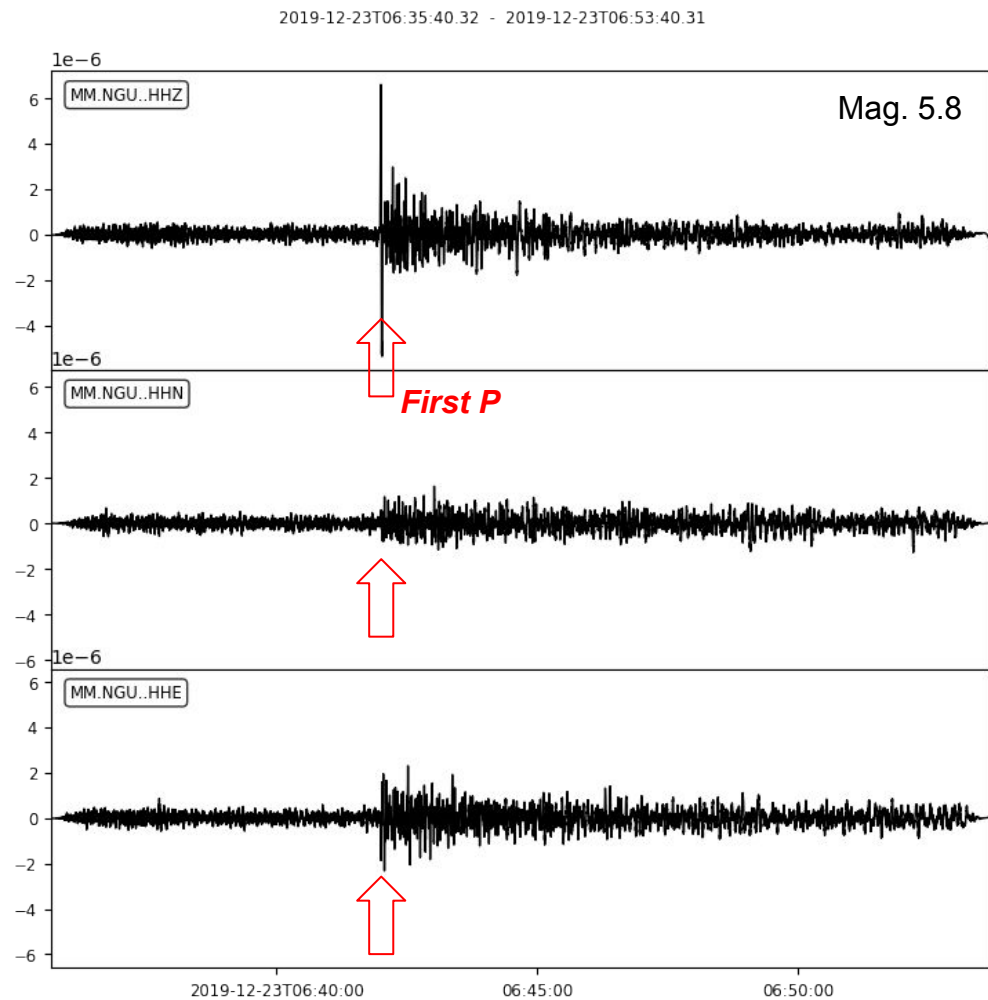
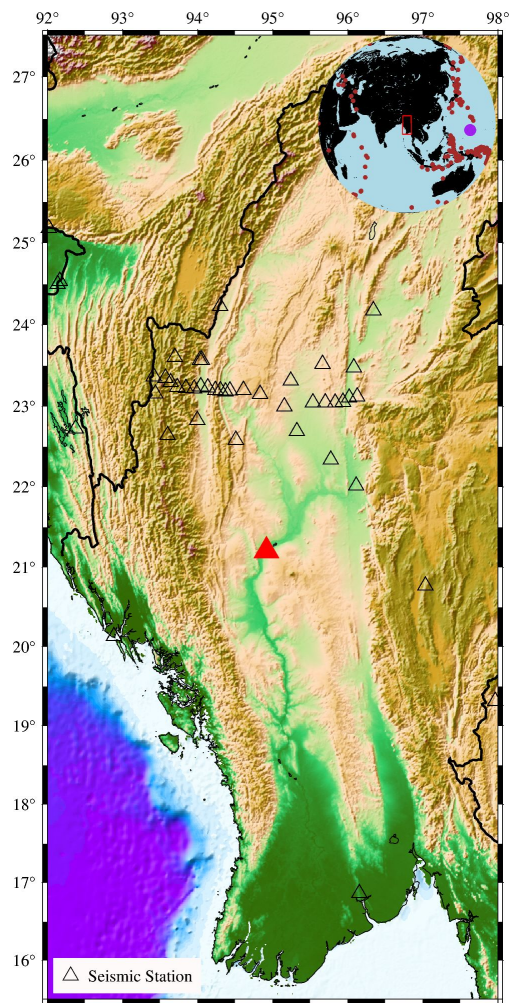


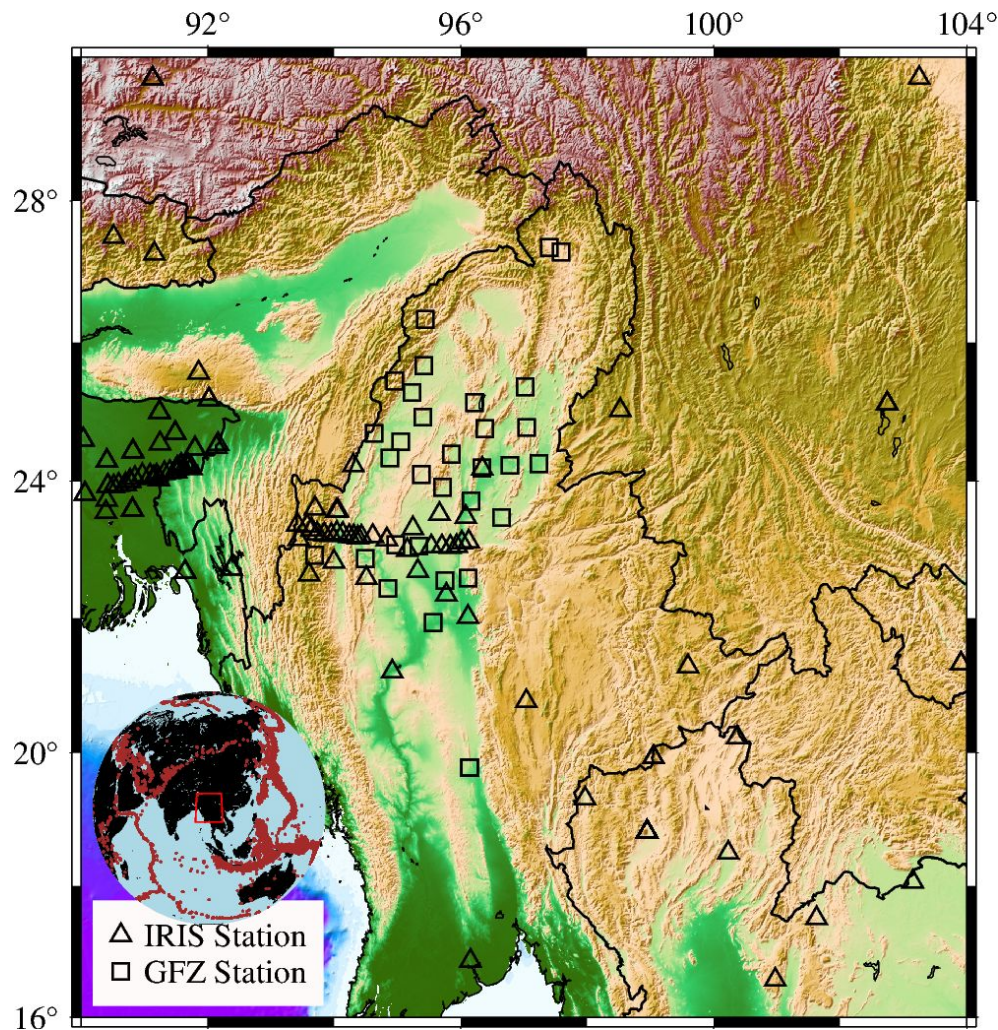
Prepare seismic data in southeast Asia

Tianjue Li, Shucheng Wu

2022 05.23







Near Station Far Event (NSFE)
Stations within study region &
events 25 to 95° away from
study site.

```

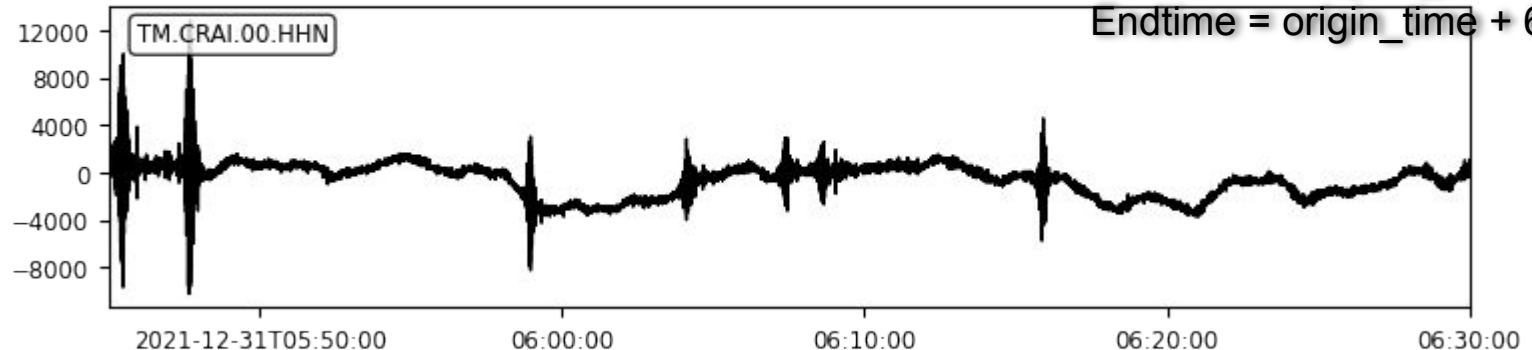
11 # set P-wave first arrival
12 model = TauPyModel(model="iasp91")
13 distaz = client.distaz(23, 97, event[1], event[2])
14 gcarc = distaz['distance']
15 evdp = float(event[3])
16 arrivals = model.get_travel_times(source_depth_in_km=evdp,distance_in_degree=gcarc,phase_list=["ttp"])
17 print("{} {} {} {} {}".format(event[1],event[2],event[3],gcarc,arrivals[0].time))
18
19 # Step 1: Data Selection
20 domain = RectangularDomain(minlatitude = 16, maxlatitude = 30,
21                             minlongitude = 90, maxlongitude = 104)
22 restrictions = Restrictions(
23     # Get data from 15 minutes before the event to 30 minutes after the first P.
24     starttime = origin_time + arrivals[0].time - 15*60,
25     endtime = origin_time + arrivals[0].time + 30*60,

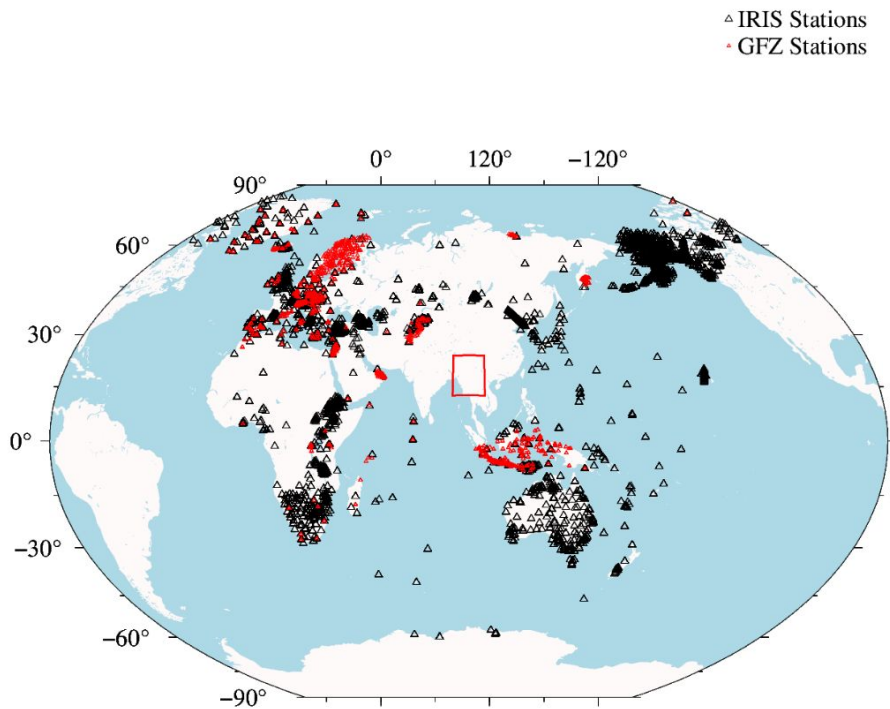
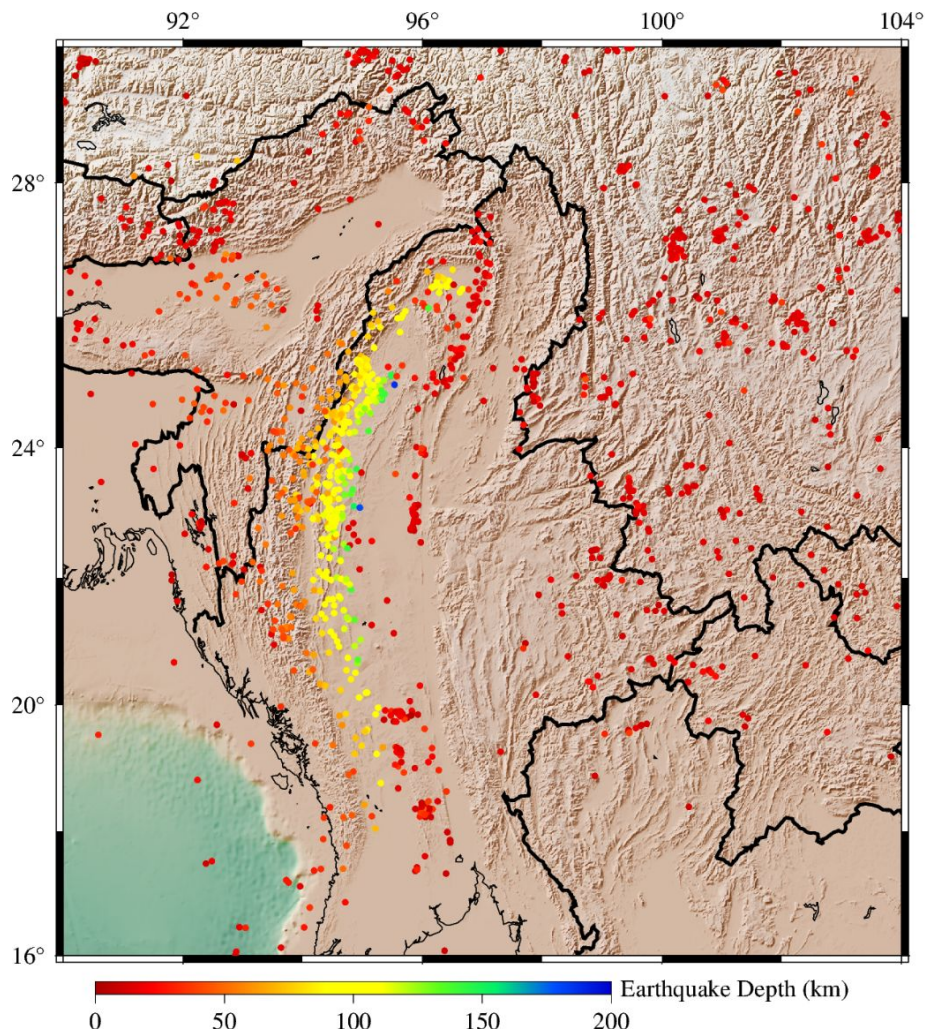
```

Modify the RectangularDomain as your study site.

2021-12-31T05:45:01.18 - 2021-12-31T06:30:01.17

Download data from earthquake origin time to one hour after:
 Starttime = origin_time
 Endtime = origin_time + 60*60





Near Event Far Station (NEFS)
Events within study region &
stations 25 to 95° away from
study site.

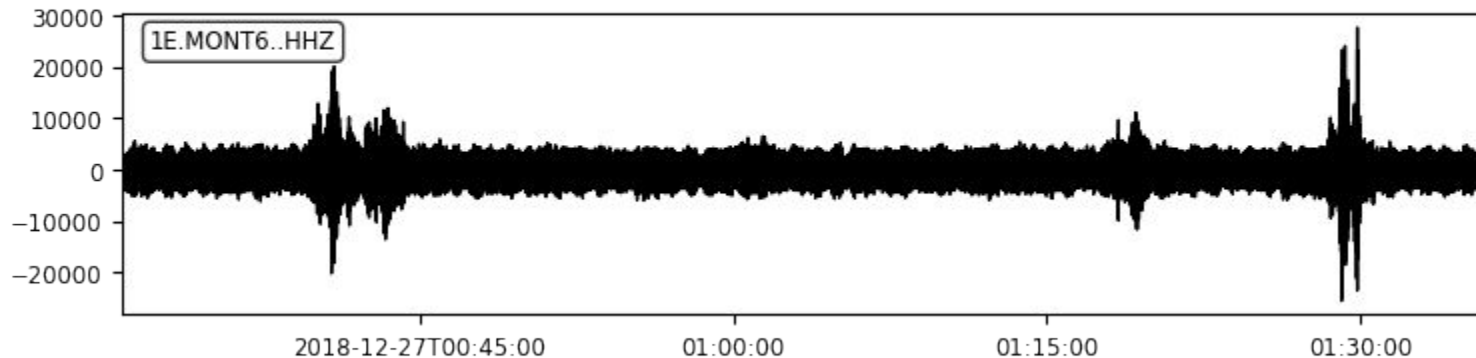
```
11 # Step 1: Data Selection
12 domain = CircularDomain(latitude=23, longitude=97, minradius=25.0, maxradius=95.0)
13 restrictions = Restrictions(
14     # Get data from 5 minutes before the event to one hour after the event.
15     starttime = origin_time - 5*60,
16     endtime = origin_time + 60*60,
```

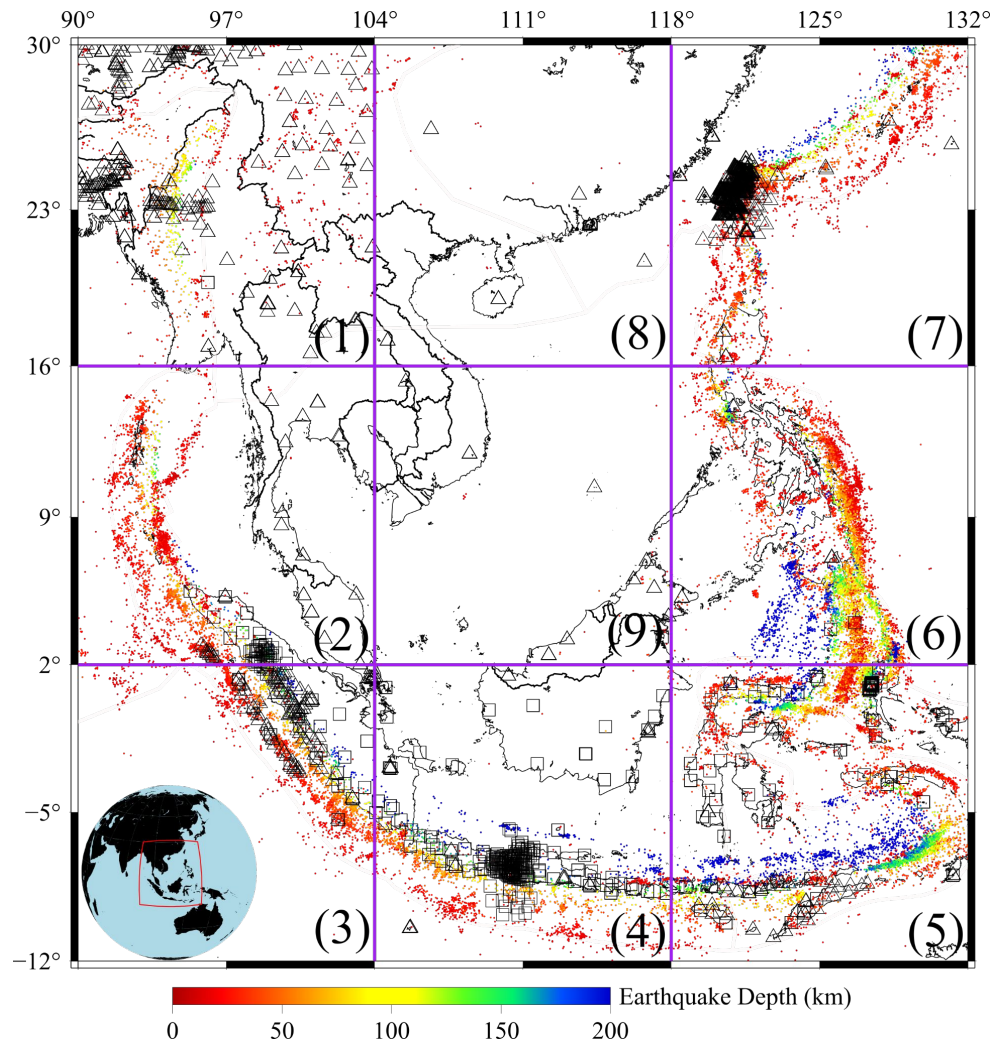
Download data from earthquake
origin time to one hour after:

Starttime = origin_time

Endtime = origin_time + 60*60

2018-12-27T00:30:49.72 - 2018-12-27T01:35:49.72





#SAPTARSHI ROY# 5

#SHASHWAT DROLIA# 4

#KUSH MUKESH KOTHARI# 3

#SIDDHARTH RANJAN BAJPAYI# 6

#VISHESH MITTAL# 1

#RACCHIT JAIN# 2

#RISHIKESH S# (Take Examination) 7

#TUSHAR KHOKHAR# (Unwell) 8 & 9