

# HW3

prompt

用obspy在IRIS FDSN上面抓取一個地震波, starttime: 2025/10/07 23:52:12,

duration: 120 s, 畫圖並存檔

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https://ds.iris.edu/bud_stuff/dmc/bud_monitor.ALL.html -----  
----- from obspy import UTCDateTime, read_inventory from  
obspy.clients.fdsn import Client import matplotlib.pyplot as plt # 參數設定  
client = Client("IRIS") starttime = UTCDateTime("2025-10-07T23:52:12")  
duration = 120 # 秒 endtime = starttime + duration # 選擇一個常見的台站 (可  
根據需求更改) network = "TW" station = "NACB" location = "" channel = "BHZ"  
# 下載地震波資料 st = client.get_waveforms(network, station, location,  
channel, starttime, endtime) # 下載台站資訊 (用於繪圖) inv =  
client.get_stations(network=network, station=station, location=location,  
channel=channel, level="response") # 畫圖 fig = plt.figure(figsize=(10, 4))  
st.plot(outfile="waveform.png", fig=fig,  
title=f"{network}.{station}.{location}.{channel} {starttime} ~ {endtime}") print("地  
震波圖已儲存為 waveform.png")
```

