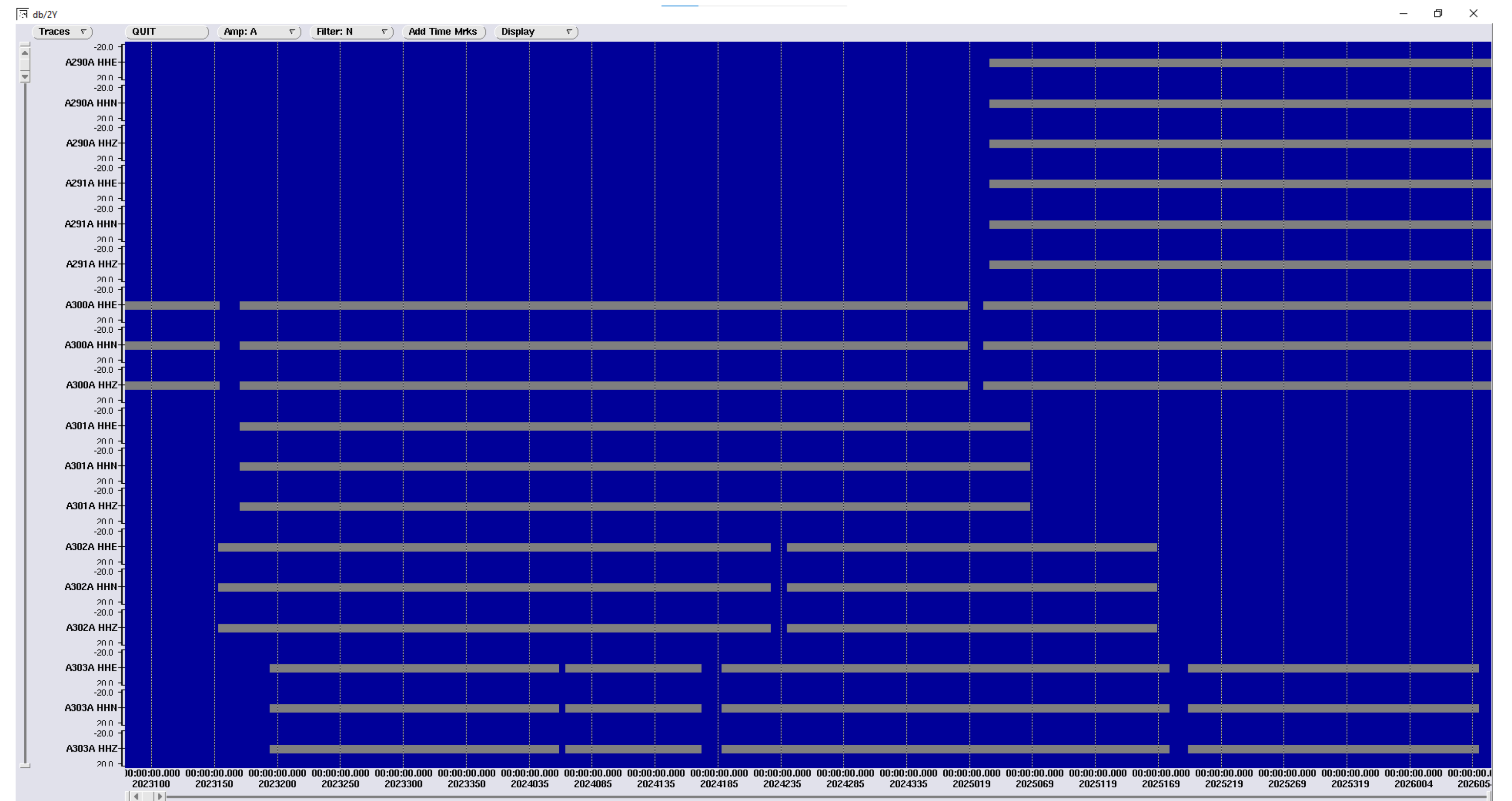


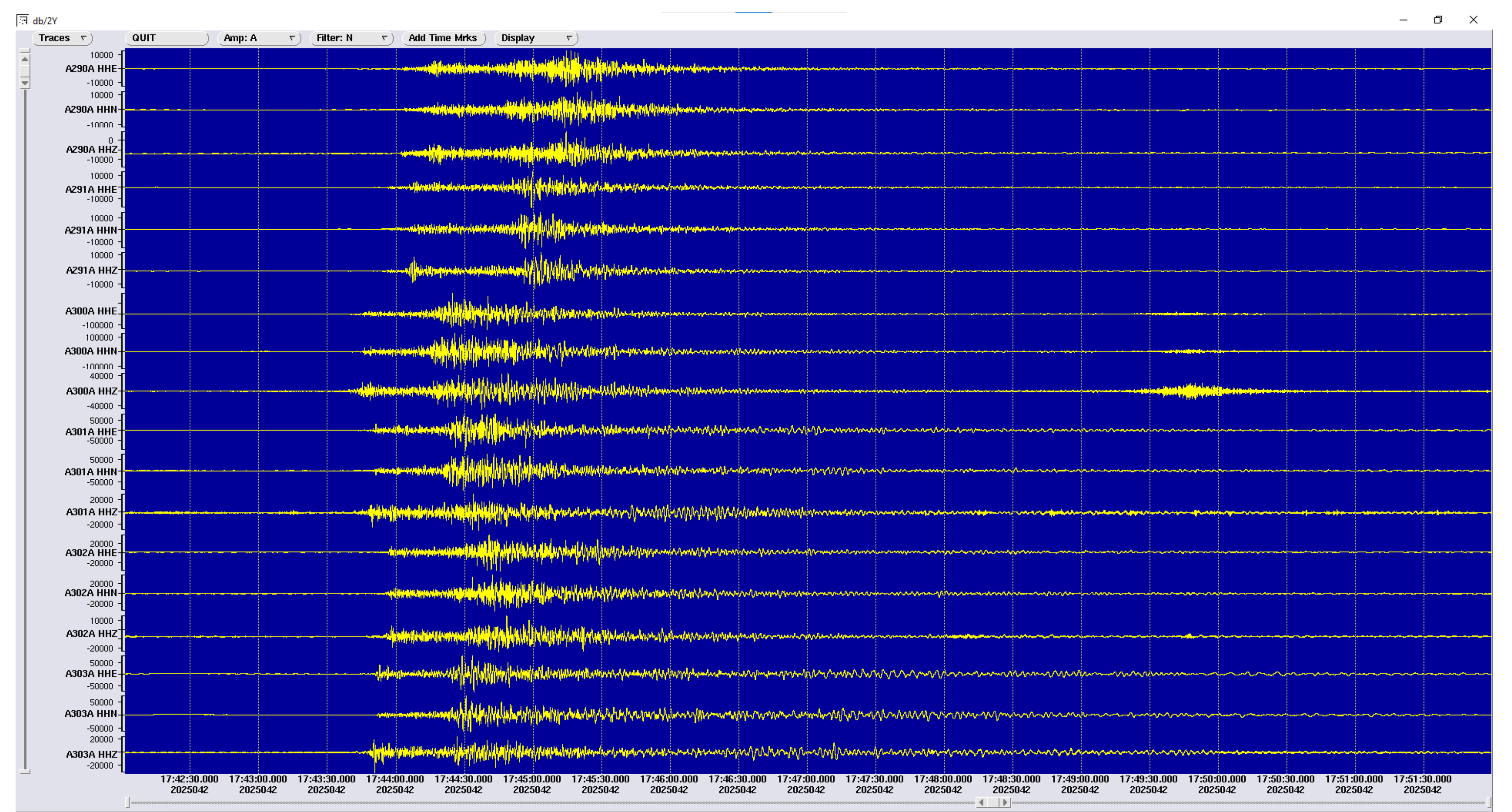
Last year, the OGS National Institute of Oceanography and Applied Geophysics (OGS) successfully installed the final two seismic stations for the 2Y network of the AdriaArray project. These stations, identified as A290A and A291A, were strategically placed in the areas of Ultimo (BZ) and Badia (BZ), located in the Northeastern region of Italy.



The image shows the current database coverage for the OGS AdA 2Y network, which illustrates the availability of data from the seismic stations. Notably, the stations A290A and A291A, which were added more recently, are now part of the network and their data is integrated. However, there have been some data gaps due to technical issues. For example, the stations A301A and A302A experienced router outages, which led to temporary data loss, but recovery efforts are underway. The data from these stations, as well as from others in the network, is available through the EIDA (European Integrated Data Archive) system, which ensures that the seismic data is accessible for further analysis and research.



The image on the right shows the seismic data recorded by the OGS AdA 2Y network in response to the MW=4.6 earthquake that occurred on February 11, 2025, near Zadar (Croatia) (as shown in the map on the left, marked with the EMSC location). The earthquake's epicenter is located approximately 250 km away from the OGS seismic stations.



The image shows the installation of the seismic station A290A in a stall in Ultimo (BZ). The setup includes key components for the operation of the station: 1) Nanometrics Centaur Datalogger: This device is used to collect and process seismic data from the seismometer. 2) Mobile Internet Router: Ensures the communication of seismic data to remote servers. 3) UPS (Uninterruptible Power Supply): Provides backup power to ensure the station remains operational in case of a power outage. 4) Electric Protections: Safeguards the equipment from electrical surges or issues. 5) Batteries: Located outside the sealed grey box, these power the system for extended periods. 6) Nanometrics Trillium Compact Seismometer: This broadband seismometer is responsible for detecting seismic waves and is mounted on a marble plate, which helps minimize accidental vibrations. The seismometer is covered with a thermal insulation cover to protect it from environmental conditions. This setup is part of the OGS AdA 2Y network, aimed at monitoring seismic activity in Northeast Italy.

REFERENCES

OGS CRS: <https://www.ogs.it/en/center-seismological-research>

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