# OHP Data Center

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## 1 Introduction

Ocean Hemisphere Project (OHP) Network is a geophysical network which covers the western Pacific region where the observation density was previously low. The networks are seismological, GPS, geoemagnetic and superconductive gravimeter networks. Using these netoworks data in combination with the pre-existing networks data, we can achive more uniform station distribution on the globe. To fully benefit this advantage to the users, data exchange should be a prime consideration.

## 2 OHP Data Center

Every OHP network data are compiled at OHPDMC (Ocean Hemisphere Project Data Management Center) and distributed to the public via WWW (http://ohpdmc.eri.u-tokyo.ac.jp). GPS, geomagnetic and superconductive gravimeter data are distributed in ascii files whose format is described in readme.txt file. For seismological data, we are distributing OHP network data as well as other networks data in SEED format via Networked Data Center System described below.

## 3 Networked Data Center

There are several broadband seismograph networks installed by different institutions in the Western Pacific region. If the data are appropriately gathered from these networks, they effectively constitutes a dataset from a very dense broadband network, and such a dataset should be very useful to determine high resolution seismic structures and seismic processes (Fig. 1). However, in the current distribution system, these studies require a little bit wearing procedures of collecting the waveform data of each data center with different interfaces.

To promote further utilization of the dataset, we propose Networked Data Center System named as NINJA (New Interface for Networked JAVA Applications). In this system, sesimic waveform data are managed by each data center of each network, but it is networked via the internet. If users request data to the data request interface (we call it as “dispatcher”), the dispatcher collects the requested waveform data from each data center using Java RMI and returns the resultant SEED volume to the user. Thus, users can download every up-to-date seimic waveform data with a unified interface. Event FARM data as well as continuous data are available through this system.

This system is already operated at the OHPDMC homepage. The current continuous dataset you can download is OHP (Japanese Ocean Hemisphere Project Network) broadband data, EOC (Earthquake Observation Center of ERI) broadband data, GEOTOC (Ocean Bottom Cable Data by ERI and IRIS) data and JMA (Japan Meteorological Agency) broadband data. BATS (Broadband Array in Taiwan for Seismology) broadband data will soon be available. Besides these Western Pacific data, worldwide data (every FDSN data and NetDC data) will be availabe by incorporation with IRIS. Of course, we welcome all institutes to participate in this project.

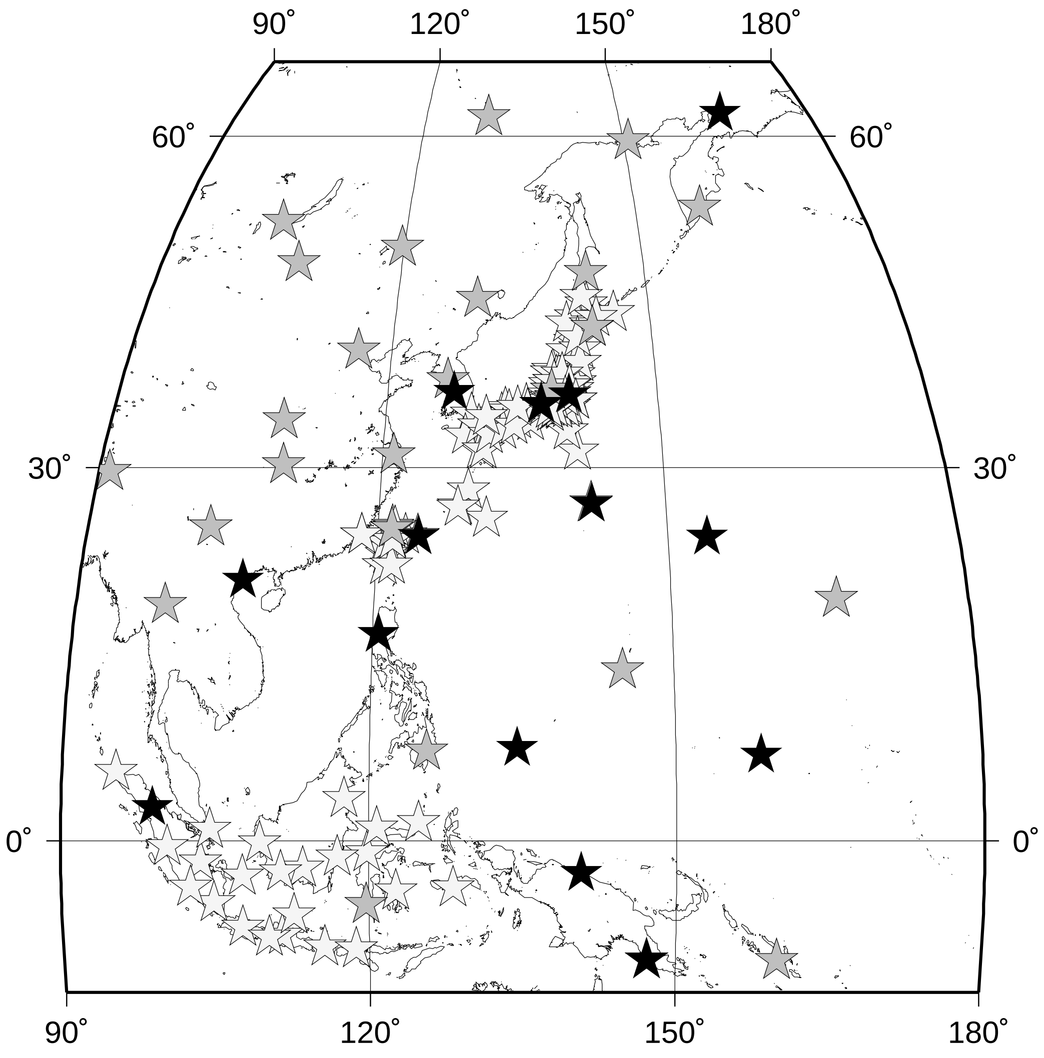


**Fig. 1.** Station distribution of OHP (black stars), IRIS (gray stars) and other networks (white stars).