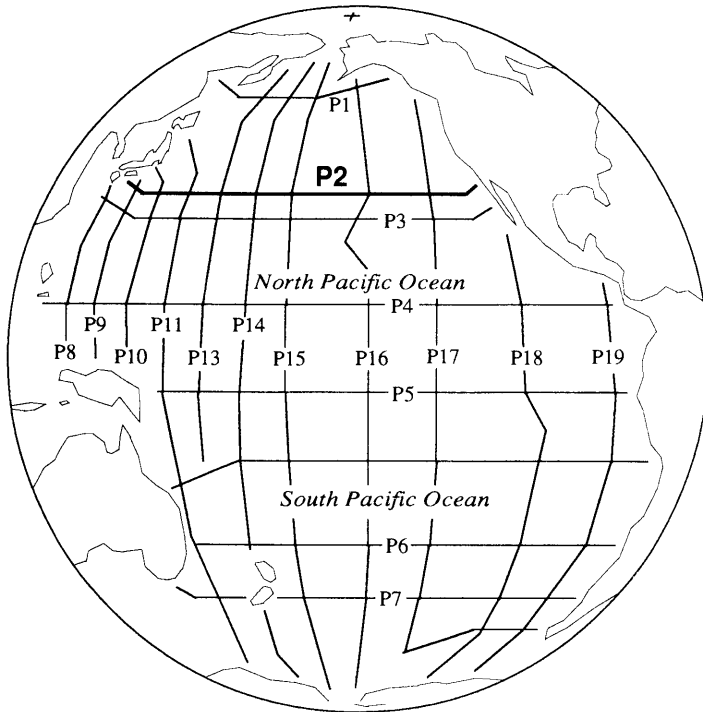


**J.H.D. SURVEY VESSEL SHOYO  
CARRIES OUT 68-DAY CRUISE  
FOR  
WOCE OBSERVATION**



- Observation legs sailed out by the Shoyo
- Other observation legs required for WOCE project

The Survey Vessel SHOYO, 1900 G/T, with Commanding Officer Captain Isamu Uehara of the Hydrographic Department of Japan, safely returned to Tokyo Port on 20 December 1993, after a 68-day cruise for carrying out oceanographic observation as part of WOCE (World Ocean Circulation Experiment) project promoted by the Intergovernmental Oceanographic Commission (IOC). This was carried out as part of the cooperative observation with Tokai University in support of Science and Technology Agency of Japan.

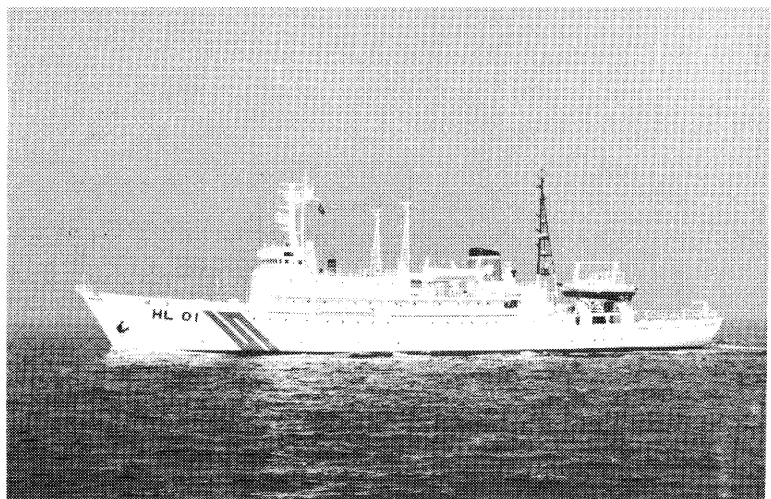
The Shoyo sailed out of Tokyo Port on 14 October, and made an oceanographic cruise across the Pacific on the observation line named "P2" designated by the project.

During her cruise, the oceanographic observation was carried out using ADCP (Acoustic Doppler Current Profiler), XBT, CTD, Shipboard wave analyzer, etc., to obtain data on ocean currents, water temperature, waves, and CO<sub>2</sub> both in sea water and in the air on the observation line P2, which is running along Latitude 30°N, covering from Long. 155°E to 117°W. Water sampling was also made

for monitoring of marine pollution at certain observation stations along the line. In addition to these obser-

ations, 2 sets of a submarine mooring system were deployed at two points to collect data of ocean currents and water temperature for one year.

The valuable data acquired are now being processed at the JHD Headquarters in Tokyo, and it is expected that the results of the observation will greatly contribute to making clarification of the oceanographic structure such as the mechanism of heat flows, absorption and discharge of CO<sub>2</sub> in sea water as well as circulation of water mass in the North Pacific Ocean.



Survey Vessel SHOYO  
Hydrographic Department of Japan