

OUTLINE OF SUBJECT V:  
OCEANIC STRUCTURE AND ITS FLUCTUATIONS  
IN THE TROPICAL PACIFIC

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The members of team V carried out oceanographic observations both on the way to PNG and back to Japan. The temperature, salinity and amount of dissolved oxygen in the seawater at various depths between the surface and about 1,000 m was taken with a CTD at 9 stations from Lat. 21°0.2'N, Long. 138°47.4'E to 1°7.9'N, 144°31.4'E and with a XBT at 16 stations from Lat. 21°0.2'N, Long. 138°37.3'E to 145°0.0'E on the equator.

Fish larvae and juveniles were collected by a larva net in an area from Lat. 28°40.5'N, Long. 130°43.0'E to 12°6.1'N, 141°23.8'E in the northwest Pacific. A three layer step-tow (100, 150 and 200 m wire out) was used for 10 minutes in each area. Ten collections caught a total of 7532 fish larvae and juveniles.

32 samples of planktonic foraminiferal assemblage were also collected by vertical towing from the seawater at depth of between 200 and 150 m, 150 and 100 m, 100 and 50 m, 50 and 0 m at 8 stations, extending from Lat. 21°0.0'N, Long. 138°44'E to 1°8'N, 144°32'E.