

Preliminary result of KR03-14 cruise.(The comparison of the bathymetric data before and after Tokachi-oki earthquake.)

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We could collect high quality bathymetric data from the shallow sea area which included the focal region to the northern Japan Trench by the KR03-14 cruise. Also, immediately after KR03-14 cruise, we compared bathymetric data with KR00-04 cruise. As a result, there was not any remarkable landform shifts near the focal region. However, the place of the northwestward of ERIMO seamount on the MCS research traverse line which links Cape ERIMO and ERIMO seamount, we suggested that there was slight shift. At present, it is proceeding with further revision and the analysis of the bathymetric data and it reports the result. And, it reports on the result of the data of the side scan sonar which was acquired at the same time by MNBES (SEABEAM2112).

The earthquake with magnitude 8.0 occurred off KUSHIRO at the time at four fifty a.m. on September 26th in 2003 and tsunami was observed in KUSHIRO and NEMURO and so on. The earthquake with magnitude 8.2 occurred in approximately the same position in 1952 and when preventing for an earthquake, it was thought much of as one of the area where the earthquake occurs repeatedly. In December, 2003, KR03-14 surveyed near the focal region with R/V KAIREI (JAMSTEC) which was equipped with MCS (The Multi-Channel Seismic reflection) and MNBES (The Multi Narrow Beam Echo-Sounder), shipboard gravity meter, three-component and proton magnetometer. At this sea area, there are the geophysical data which were surveyed by the KR00-04 cruise in 2000. Also, in the KR99-02 cruise, it acquired Bathymetric data to deploy the JAMSTEC's real-time cabled observatory system with the ROV KAIKO. Besides, There are the geophysical data around the area with R/V KAIREI (KR98-03) and R/V YOKOSUKA (YK99-03, YK01-06, YK02-02).