

README for Bathymetry Data

Measurement System

Name: Multi-narrow Beam Echo Sounder (MBES)
Manufacturer: Seabeam Instruments
Type: 2112.004
Frequency: 12 kHz
Swath Angle: Max 150 degree
120 degree to 4,500 m
100 degree to 6,000 m
90 degree to 11,000 m
Beam Angle: 2 degree
Beam Number: 151
Range: 500 - 11,000 m
Resolution: Center beam [Depth (m) * 0.2%]
Side beam [Depth (m) * 0.5%]

Data Format

Longitude (degree East) f11.6
Latitude (degree North) f10.6
Depth (m) f9.3

Data Correction

- 1) Sound velocity profile correction has been made using XBT data.
- 2) Unreliable data for the following parameters have been removed using the processing software "HIPS and SIPS" of CARIS Inc.
 - Navigation error
 - Spike Noise
 - Side Beam (Beam No. 1 (starboard side) - 21, 131 - 151)

Observation Period

Leg-1	12:05	25 Sept 2011	-	11:12	30 Sept 2011
	06:35	24 Oct 2011	-	00:07	26 Oct 2011
Leg-2	23:59	28 Oct 2011	-	22:19	30 Oct 2011
	07:24	28 Nov 2011	-	03:00	01 Dec 2011

Remarks

WGS84 was adopted as a geodetic system.
The influence of tide is not considered for data correction.

For more information

Contact to Kunio Yoneyama (yoneyamak [at] jamstec.go.jp)
or

http://www.godac.jamstec.go.jp/darwin/data/mirai/mr11-07_leg1/bathymetry/e
http://www.godac.jamstec.go.jp/darwin/data/mirai/mr11-07_leg2/bathymetry/e