

## 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

The following parameters are stored as ASCII file.

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.

This data set has been produced by JAMSTEC Data Research Center for Marine-Earth Sciences who manages JAMSTEC data sets. Thus, data are same as that found in their data site "<http://www.godac.jamstec.go.jp/darwin/e>".

### For more information

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