

DiMarco  
July 05-11, 2012  
(LUMCON: PE13-01)

**Technician:** Alexander Ren

### **SCS-MIDAS**

SCS-MIDAS began weather and GPS data collection at 05:03 GMT on 07/05/12. Flow-through pump and water quality sensors were turned on at 07:35 GMT on 07/05/12. Knudsen Echo Sounder was turned on at 08:10 GMT on 07/05/12.

Knudsen Echo Sounder lost track of the bottom in approximately 1600 m depth at 23:40 GMT on 07/06/12 and did not regain track of the bottom until 07:15 GMT on 07/11/12 in approximately 700m depth.

There were two instances where the intake pump shut down temporarily due to overheating. Once for approximately two (2) hours from 23:00 GMT on 07/08/12 until 01:00 GMT on 07/09/12. And again for approximately 27 minutes from 04:13 GMT until 04:40 GMT on 07/11/12.

SCS-MIDAS was run during the cruise for approximately six (6) days until the system was shut. The intake pump, water quality sensors, and Knudsen echo sounder were shut off at 15:08 GMT on 07/11/12 and SCS\_MIDAS data acquisition was shut off at 17:48 GMT on 07/11/12. All MIDAS instrumentation calibration information is available upon request. Files generated by the MIDAS program can be opened using Notepad.

### **300 kHz ADCP**

The 300 kHz ADCP began data collection at 10:10 GMT on 07/05/12 with bin size 2 m and user input averaging period of five (5) and fifteen (15) minutes. Data collection was temporarily stopped during mooring ops for approximately three (3) at 21:31 GMT on 07/05/12 until 00:30 GMT on 07/06/12. Data collection was stopped at 17:43 GMT on 07/11/12.

### **75 kHz ADCP**

The 75 kHz ADCP began data collection at 10:10 GMT on 07/05/12 with bin size 8 m and user input averaging period of five (5) and fifteen (15) minutes. Data collection was temporarily stopped during mooring ops for approximately three (3) at 21:31 GMT on 07/05/12 until 00:30 GMT on 07/06/12. Data collection was stopped at 12:57 GMT on 07/11/12.

## **CTD Data**

A total of thirty-five (35) CTD casts were completed. Included in the data files are the location, time, station name and configuration of each deployment. Sea Cable Termination failed mid-cast at approximately 22:00 GMT on 07/09/12 and the cable was re-terminated. One (1) more cast was successfully completed but the solder joint for the ground on the new termination failed after the cast at approximately 12:00 GMT on 07/10/12. The cable was again re-terminated and the remaining CTD casts were successfully completed. Configuration files and calibration sheets were provided to the scientists to aid in processing data. Sea Bird's Seasave Win32, version 7.0 was used to generate all files. Any questions about data processing or obtaining post processing software can best be addressed at SEA-BIRD'S website at [WWW.SEABIRD.COM](http://WWW.SEABIRD.COM).

If there are any questions about the data please contact: Marine Operations

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