



**Sea-Bird Electronics, Inc. FAX: (425) 643-9954**

1808 136<sup>th</sup> Place NE, Bellevue, Washington 98005 USA Tel:(425)643-9866

Website: <http://www.seabird.com>

Email: [seabird@seabird.com](mailto:seabird@seabird.com)

### Service Report

SBE Job Number: 41673

Date: 30, January 2006

Customer: US Department of Commerce, NOAA

#### Customer Identified Problem:

1. Calibrate SBE 3 temperature sensors, S/N 031075 and 031652.
2. Calibrate SBE 4 conductivity sensors, S/N 041374 and 041387.
3. Calibrate SBE 43 DO sensors, S/N 430703, 430140 and 430730.

#### Problems Found:

1. SBE 43 DO sensor, S/N 430140.  
The 4-Pin I/O connector was found to be severely corroded.
2. SBE 43 DO sensor, S/N 430703.  
The plenum screw was found to be loose.
3. SBE 43 DO sensor, S/N 430730.  
The membrane was found to be punctured.

#### Services Performed:

1. Calibrations performed on SBE 3 temperature sensors, S/N 031075 and 031652.  
Post calibrated the sensors.
2. Calibrations performed on SBE 4 conductivity sensors, S/N 041374 and 041387.  
Post calibrated the sensors.
3. Calibrations and services performed on SBE 43 DO sensor, S/N 430140.  
Replaced the 4-Pin I/O connector.  
Replaced the main piston "O"-Rings.  
Performed hydrostatic pressure test.  
Post calibrated the sensor.  
Performed a full diagnostic evaluation.

4. Calibrations and services performed on SBE 43 DO sensor, S/N 430703  
Tightened the loose plenum screw.  
Post calibrated the sensor.  
Performed a full diagnostic evaluation.
  
5. Calibrations and services performed on SBE 43 DO sensor, S/N 430730.\*  
Replaced the lid and membrane assembly.  
Re-backfilled the sensor's electrolyte reservoir.  
Backfilled the pressure compensation bag with saline solution.  
Calibrated the sensor.  
Performed full diagnostic evaluation.

\* All services on this sensor have been performed at no charge.