

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0140  
CALIBRATION DATE: 24-Feb-07p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.2870

Boc = 0.0000

Voffset = -0.6176

TCor = 0.0007

PCor = 1.350e-04

| BATH OX<br>(ml/l) | BATH TEMP<br>ITS-90 | BATH SAL<br>PSU | INSTRUMENT<br>OUTPUT(VOLTS) | INSTRUMENT<br>OXYGEN(ml/l) | RESIDUAL<br>(ml/l) |
|-------------------|---------------------|-----------------|-----------------------------|----------------------------|--------------------|
| 1.23              | 2.00                | 0.00            | 1.060                       | 1.23                       | -0.00              |
| 1.24              | 20.00               | 0.01            | 1.287                       | 1.24                       | -0.00              |
| 1.24              | 6.00                | 0.00            | 1.111                       | 1.24                       | -0.00              |
| 1.24              | 12.00               | 0.01            | 1.189                       | 1.25                       | 0.01               |
| 1.25              | 26.00               | 0.01            | 1.369                       | 1.24                       | -0.00              |
| 1.26              | 30.00               | 0.01            | 1.435                       | 1.26                       | 0.00               |
| 4.14              | 26.00               | 0.01            | 3.114                       | 4.14                       | -0.00              |
| 4.15              | 2.00                | 0.00            | 2.107                       | 4.14                       | -0.01              |
| 4.15              | 20.00               | 0.01            | 2.856                       | 4.14                       | -0.01              |
| 4.16              | 30.00               | 0.01            | 3.308                       | 4.16                       | 0.01               |
| 4.16              | 12.00               | 0.01            | 2.533                       | 4.18                       | 0.01               |
| 4.17              | 6.00                | 0.00            | 2.279                       | 4.17                       | -0.00              |
| 6.58              | 30.00               | 0.01            | 4.871                       | 6.58                       | 0.01               |
| 6.62              | 26.00               | 0.01            | 4.610                       | 6.61                       | -0.00              |
| 6.64              | 20.00               | 0.01            | 4.198                       | 6.62                       | -0.01              |
| 6.71              | 12.00               | 0.01            | 3.700                       | 6.72                       | 0.01               |
| 6.72              | 2.00                | 0.00            | 3.034                       | 6.71                       | -0.01              |
| 6.74              | 6.00                | 0.00            | 3.308                       | 6.75                       | 0.01               |

oxygen (ml/l) = (Soc \* (V + Voffset)) \* exp(Tcor \* T) \* Oxsat(T,S) \* exp(PCor \* P)

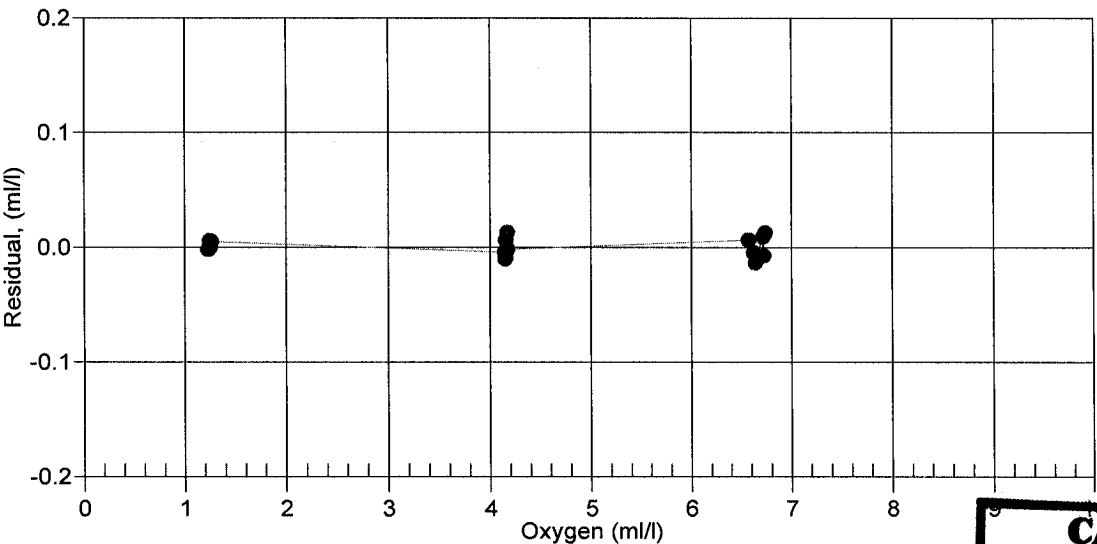
V = voltage output from SBE43, T = temperature [deg C], S = salinity [PSU]

Oxsat(T,S) = oxygen saturation [ml/l], P = pressure [dbar]

Residual = instrument oxygen - bath oxygen

Date, Delta Ox (ml/l)

24-Feb-07p 0.00



**CALIBRATION  
AFTER  
MODIFICATIONS**