

SEA-BIRD ELECTRONICS, INC.1808 136th Place N.E., Bellevue, Washington 98005 USA
Phone: (425) 643 - 9866 Fax: (425) 643 - 9954 Internet: seabird@seabird.comSENSOR SERIAL NUMBER = 0154
CALIBRATION DATE: 17-Dec-01wSBE 43
OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 0.4088

Boc = 0.0000

Voffset = -0.4844

TCor = 0.0022

PCor = 1.350e-04

BATH OX ml/l	BATH TEMP (ITS-90 °C)	BATH SAL PSU	INSTRUMENT VOLTS	INST OX ml/l	RESIDUAL ml/l
1.16	25.00	0.03	0.944	1.14	-0.02
1.20	5.00	0.04	0.804	1.18	-0.02
1.89	25.00	0.03	1.245	1.90	0.01
1.90	5.00	0.04	1.006	1.92	0.02
2.67	25.00	0.03	1.560	2.68	0.01
4.19	5.00	0.04	1.621	4.19	0.00
4.19	25.00	0.03	2.170	4.20	0.01
5.61	25.00	0.03	2.730	5.60	-0.01
6.53	5.00	0.04	2.253	6.53	-0.00

V = voltage output from SBE-43

T = ocean temperature [°C] from CTD

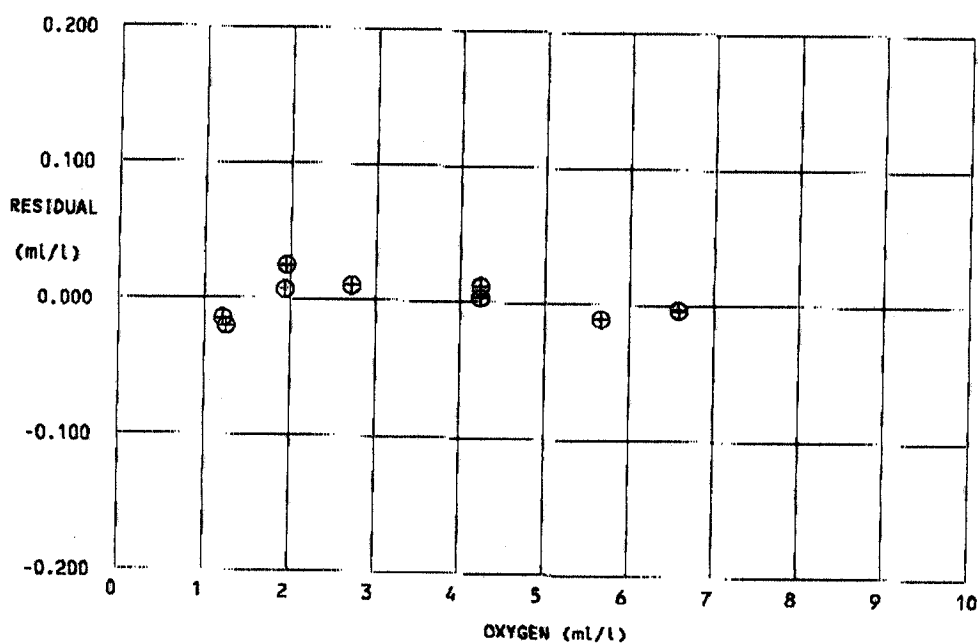
S = ocean salinity [PSU] from CTD

P = ocean pressure [dbar] from CTD

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

$$\text{oxygen (ml/l)} = (\text{Soc} * (\text{V} + \text{Voffset})) * \exp(\text{TCor} * \text{T}) * \text{Oxsat}(\text{T}, \text{S}) * \exp(\text{PCor} * \text{P})$$

Residual = instrument oxygen - bath oxygen

calibration date
⊕ 17-Dec-01w
delta Ox [ml/l]
-0.0000