

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0468
CALIBRATION DATE: 31-May-08

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.052896e+000
h = 1.514344e-001
i = -2.387123e-004
j = 3.899617e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -6.8698e-005

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2641.94	0.00000	0.00000
1.0000	35.0731	2.99581	5174.10	2.99580	-0.00002
4.5000	35.0533	3.30487	5368.04	3.30487	0.00000
15.0001	35.0095	4.29280	5945.43	4.29284	0.00003
18.5000	35.0002	4.64012	6135.40	4.64014	0.00002
24.0000	34.9893	5.20150	6430.48	5.20149	-0.00001
29.0000	34.9823	5.72644	6694.49	5.72636	-0.00007
32.5000	34.9772	6.10086	6876.61	6.10091	0.00005

$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

Conductivity = $(g + hf^2 + if^3 + jf^4) / (1 + \delta t + \epsilon p)$ Siemens/meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

