

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3318
CALIBRATION DATE: 06-Mar-07

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

COEFFICIENTS:

g = -1.020247e+000

CPcor = -9.5700e-008

h = 1.392909e-001

CTcor = 3.2500e-006

i = -1.779184e-004

WBOTC = -5.6324e-006

j = 3.675790e-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	2708.63	0.00000	0.00000
1.0000	34.6631	2.96411	5346.44	2.96411	-0.00001
4.5000	34.6439	3.27006	5547.10	3.27006	0.00001
14.9999	34.6029	4.24819	6143.95	4.24819	0.00000
18.4999	34.5943	4.59208	6340.14	4.59207	-0.00000
24.0000	34.5850	5.14801	6644.73	5.14801	-0.00000
28.9999	34.5797	5.66790	6917.09	5.66790	0.00000
32.5000	34.5756	6.03875	7104.77	6.03875	-0.00000

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

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

