

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4920
CALIBRATION DATE: 06-Mar-07

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

COEFFICIENTS:

g = -1.019230e+000
h = 1.580903e-001
i = -1.488136e-004
j = 4.031533e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 1.9888e-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	2539.51	0.00000	0.00000
1.0000	34.6631	2.96411	5015.36	2.96415	0.00004
4.5000	34.6439	3.27006	5203.39	3.27003	-0.00002
14.9999	34.6029	4.24819	5762.72	4.24814	-0.00005
18.4999	34.5943	4.59208	5946.59	4.59207	-0.00001
24.0000	34.5850	5.14801	6232.02	5.14805	0.00004
28.9999	34.5797	5.66790	6487.21	5.66795	0.00005
32.5000	34.5756	6.03875	6663.01	6.03870	-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

