

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4921
CALIBRATION DATE: 04-Mar-09

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

COEFFICIENTS:

g = -1.006562e+000

CPcor = -9.5700e-008

h = 1.557537e-001

CTcor = 3.2500e-006

i = -3.541694e-005

WBOTC = 2.0601e-005

j = 2.897609e-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	2540.78	0.00000	0.00000
0.9999	34.8339	2.97732	5048.37	2.97732	0.00000
4.4999	34.8141	3.28453	5238.40	3.28453	-0.00000
15.0000	34.7710	4.26664	5803.47	4.26664	-0.00000
18.5000	34.7618	4.61192	5989.18	4.61192	-0.00000
24.0000	34.7514	5.17004	6277.46	5.17005	0.00001
29.0000	34.7452	5.69198	6535.21	5.69198	-0.00001

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

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

t = temperature[°C]; p = pressure[decibars]; $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

Residual = instrument conductivity - bath conductivity

