

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0661
CALIBRATION DATE: 31-May-07

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

COEFFICIENTS:

g = -1.043026e+000
h = 1.563528e-001
i = -1.421369e-004
j = 3.810987e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -2.7375e-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	2584.53	0.00000	0.00000
1.0001	34.7923	2.97412	5064.72	2.97413	0.00001
4.5000	34.7718	3.28094	5254.04	3.28093	-0.00001
15.0000	34.7279	4.26192	5817.59	4.26190	-0.00001
24.0000	34.7087	5.16439	6290.85	5.16439	0.00001
29.0000	34.7036	5.68593	6548.44	5.68595	0.00002
32.5000	34.7011	6.05817	6726.09	6.05816	-0.00001

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

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

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

Residual = instrument conductivity - bath conductivity

