

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0827
 CALIBRATION DATE: 31-May-07

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

COEFFICIENTS:

g = -1.036985e+000	CPcor = -9.5700e-008
h = 1.588759e-001	CTcor = 3.2500e-006
i = -1.089937e-004	WBOTC = -2.7313e-005
j = 3.756981e-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	2555.84	0.00000	0.00000
1.0001	34.7923	2.97412	5018.40	2.97413	0.00002
4.5000	34.7718	3.28094	5206.21	3.28093	-0.00001
15.0000	34.7279	4.26192	5765.21	4.26190	-0.00001
18.5000	34.7186	4.60681	5949.06	4.60680	-0.00000
24.0000	34.7087	5.16439	6234.59	5.16439	0.00000
29.0000	34.7036	5.68593	6490.06	5.68596	0.00003
32.5000	34.7011	6.05817	6666.23	6.05815	-0.00002

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

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

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

Residual = instrument conductivity - bath conductivity

