

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1244
 CALIBRATION DATE: 11-Dec-07

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

COEFFICIENTS:

g = -1.042202e+000	CPcor = -9.5700e-008
h = 1.579959e-001	CTcor = 3.2500e-006
i = -1.938868e-004	WBOTC = -2.8870e-005
j = 4.383207e-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	2570.86	0.00000	0.00000
1.0000	35.1574	3.00232	5057.37	3.00233	0.00000
4.5000	35.1364	3.31193	5246.85	3.31193	0.00000
15.0000	35.0925	4.30189	5810.74	4.30187	-0.00002
18.5000	35.0834	4.64996	5996.19	4.64995	-0.00001
24.0000	35.0731	5.21258	6284.15	5.21261	0.00003
29.0000	35.0665	5.73866	6541.64	5.73865	-0.00001

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

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

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

Residual = instrument conductivity - bath conductivity

