

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0475
 CALIBRATION DATE: 06-Nov-08

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

COEFFICIENTS:

g = -1.041747e+000	CPcor = -9.5700e-008
h = 1.411086e-001	CTcor = 3.2500e-006
i = -3.627260e-004	WBOTC = -8.3216e-005
j = 4.892232e-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	2725.62	0.00000	0.00000
1.0000	34.7449	2.97044	5342.79	2.97046	0.00001
4.4999	34.7249	3.27694	5543.26	3.27694	-0.00000
15.0000	34.6812	4.25679	6140.04	4.25677	-0.00002
18.4999	34.6722	4.60130	6336.39	4.60130	-0.00000
23.9999	34.6621	5.15821	6641.34	5.15822	0.00001
28.9999	34.6563	5.67904	6914.19	5.67909	0.00004
32.5001	34.6539	6.05088	7102.40	6.05085	-0.00003

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

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

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

Residual = instrument conductivity - bath conductivity

