

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1246
CALIBRATION DATE: 04-Jun-08

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

COEFFICIENTS:

g = -1.030122e+000

CPcor = -9.5700e-008

h = 1.512900e-001

CTcor = 3.2500e-006

i = -3.760747e-006

WBOTC = -2.7464e-005

j = 2.666586e-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	2608.70	0.00000	0.00000
0.9999	34.6703	2.96466	5127.10	2.96466	-0.00000
4.4999	34.6508	3.27064	5319.19	3.27064	0.00001
14.9999	34.6087	4.24882	5890.79	4.24880	-0.00002
18.4999	34.5995	4.59269	6078.78	4.59269	0.00000
23.9999	34.5892	5.14855	6370.71	5.14857	0.00002
29.0000	34.5828	5.66836	6631.83	5.66836	-0.00000
32.5000	34.5792	6.03930	6811.92	6.03930	-0.00000

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

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

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

Residual = instrument conductivity - bath conductivity

