

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 3936
CALIBRATION DATE: 12-Nov-08

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

COEFFICIENTS:

g = -1.017733e+000
h = 1.417175e-001
i = -1.549367e-004
j = 3.294019e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 7.1795e-006

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	2681.30	0.00000	0.00000
0.9999	34.7385	2.96994	5302.57	2.96993	-0.00001
4.5000	34.7183	3.27639	5501.73	3.27639	0.00001
15.0000	34.6751	4.25612	6094.11	4.25613	0.00001
18.5000	34.6659	4.60057	6288.83	4.60058	0.00001
24.0000	34.6559	5.15740	6591.14	5.15739	-0.00001
29.0000	34.6501	5.67815	6861.47	5.67813	-0.00002
32.5000	34.6465	6.04972	7047.85	6.04974	0.00002

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

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

Date, Slope Correction

