## Sea-Bird Electronics, Inc.

## 13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1678 CALIBRATION DATE: 15-Jan-12

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

## **COEFFICIENTS:**

g =	-9.839567e-001	CPcor =	-9.5700e-008
h =	1.370953e-001	CTcor =	3.2500e-006
i =	-1.461698e-004	WBOTC =	4.8508e-006
j =	3.433735e-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	2680.30	0.0000	0.00000
1.0000	34.9333	2.98501	5376.52	2.98503	0.00002
4.5000	34.9128	3.29293	5580.18	3.29291	-0.00002
15.0000	34.8683	4.27732	6185.55	4.27731	-0.00001
18.4999	34.8589	4.62340	6384.42	4.62340	0.00000
24.0000	34.8481	5.18283	6693.03	5.18285	0.00002
29.0000	34.8417	5.70601	6968.86	5.70600	-0.00001

f = INST FREQ \* sqrt(1.0 + WBOTC \* t) / 1000.0

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

t = temperature[°C); p = pressure[decibars];  $\delta = CTcor$ ;  $\epsilon = CPcor$ ;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

21-Dec-10 1.0000044

