## **SEA-BIRD ELECTRONICS, INC.**

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

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

### SENSOR SERIAL NUMBER: 2489 CALIBRATION DATE: 17-Dec-10

# SBE4 CONDUCTIVITY CALIBRATION DATA PSS 1978: C(35,15,0) = 4.2914 Seimens/meter

#### **GHIJ COEFFICIENTS**

g =	-1.03152575e+001	
h =	1.52950247e+000	
i =	-1.77714116e-004	
j =	1.38854115e-004	
CPcc	ar = -9.5700e - 0.08	(nor

CPcor = -9.5700e-008 (nominal) CTcor = 3.2500e-006 (nominal)

### **ABCDM COEFFICIENTS**

a = 1.20733865e-004 b = 1.52903359e+000 c = -1.03143664e+001 d = -8.28549876e-005 m = 4.0

CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.59655	0.00000	0.00000
-1.0000	35.1009	2.82535	5.01734	2.82537	0.00001
1.0000	35.1010	2.99797	5.12817	2.99797	0.00000
15.0000	35.0999	4.30270	5.89835	4.30265	-0.00005
18.5000	35.0988	4.65178	6.08780	4.65179	0.00001
29.0000	35.0964	5.74300	6.64481	5.74307	0.00007
32.5000	35.0900	6.11829	6.82567	6.11824	-0.00005

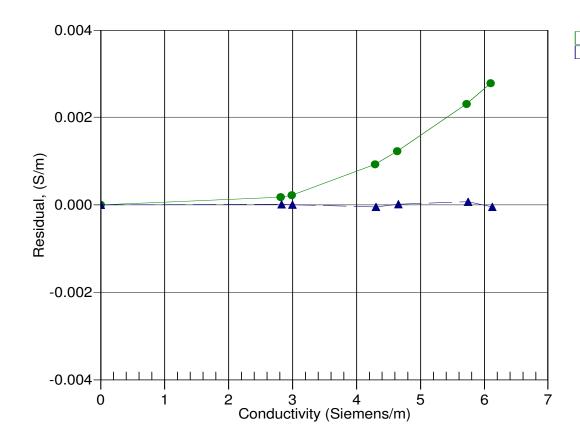
Conductivity =  $(g + hf^2 + if^3 + jf^4)/10(1 + \delta t + \epsilon p)$  Siemens/meter

Conductivity =  $(af^{m} + bf^{2} + c + dt) / [10 (1 + \varepsilon p)]$  Siemens/meter

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

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction



22-Dec-06 0.999676917-Dec-10 1.0000000