

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: 2209
CALIBRATION DATE: 11-Oct-12

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

GHIJ COEFFICIENTS

g = -1.03716475e+001
h = 1.40460106e+000
i = 6.95930145e-004
j = 1.74645105e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.34515410e-004
b = 1.40602300e+000
c = -1.03749867e+001
d = -7.83747303e-005
m = 3.5
CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.71541	0.00000	0.00000
-1.0000	34.7679	2.80104	5.21979	2.80105	0.00001
1.0000	34.7690	2.97231	5.33479	2.97230	-0.00001
15.0000	34.7701	4.26655	6.13427	4.26658	0.00003
18.5000	34.7706	4.61296	6.33102	4.61293	-0.00003
29.0001	34.7687	5.69541	6.90973	5.69541	0.00000

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

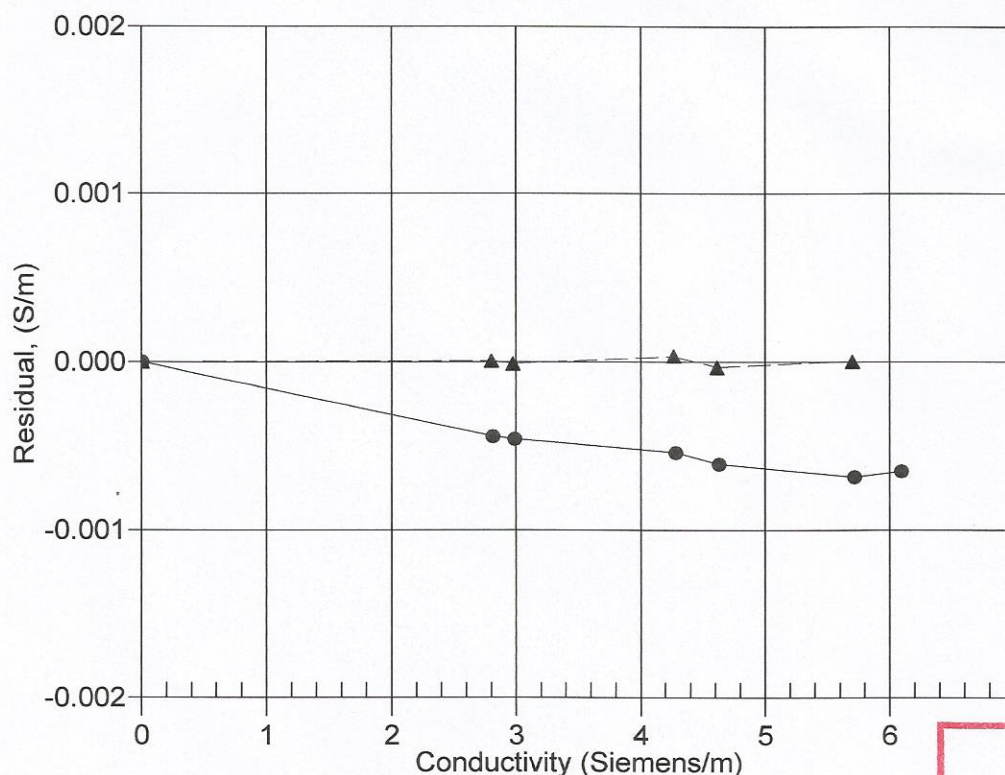
Conductivity = $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$ Siemens/meter

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

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

Date, Slope Correction

● 17-Jan-12 1.0001237
▲ 11-Oct-12 1.0000000



**POST CRUISE
CALIBRATION**