

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: 1538
CALIBRATION DATE: 28-Jan-10

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

GHIJ COEFFICIENTS

g = -4.21376067e+000
h = 4.71466897e-001
i = -1.51663093e-004
j = 2.79815598e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.76792084e-006
b = 4.70972399e-001
c = -4.21202892e+000
d = -8.13625406e-005
m = 4.3
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	2.99022	0.00000	0.00000
-0.9499	34.6321	2.79534	8.25427	2.79534	-0.00001
1.0815	34.6320	2.96874	8.47326	2.96876	0.00002
14.9999	34.6318	4.25136	9.94236	4.25133	-0.00003
18.4999	34.6310	4.59642	10.30139	4.59642	-0.00001
29.0000	34.6281	5.67495	11.34918	5.67502	0.00007
32.4999	34.6222	6.04595	11.68732	6.04591	-0.00004

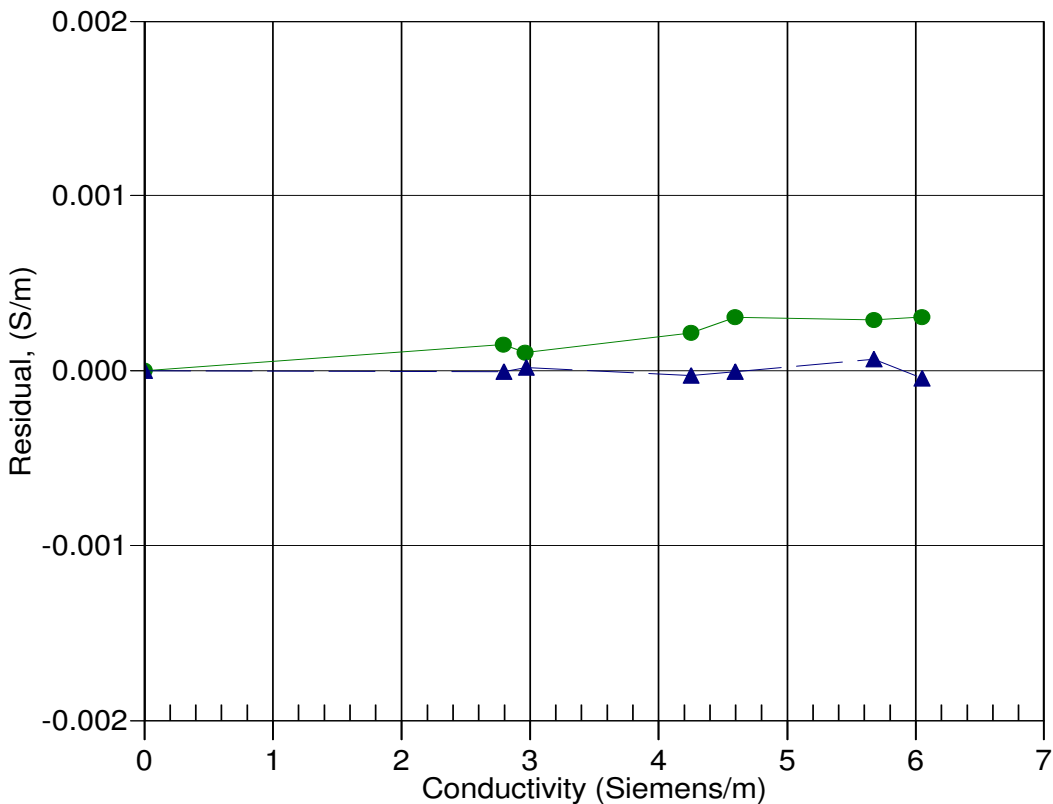
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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-Jun-09 0.9999476
▲ 28-Jan-10 1.0000000