

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0501
CALIBRATION DATE: 06-May-15

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

GHIJ COEFFICIENTS

g = -4.12390993e+000
h = 4.41077931e-001
i = 6.83067178e-005
j = 1.34312759e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.89506786e-005
b = 4.41279700e-001
c = -4.12484209e+000
d = -8.95715676e-005
m = 3.8
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	3.05656	0.00000	0.00000
-1.0000	34.7310	2.79834	8.51681	2.79831	-0.00003
1.0000	34.7311	2.96938	8.74015	2.96940	0.00002
15.0000	34.7311	4.26227	10.27040	4.26229	0.00002
18.5000	34.7300	4.60815	10.64208	4.60817	0.00001
29.0000	34.7288	5.68960	11.72720	5.68951	-0.00009
32.5000	34.7250	6.06187	12.07798	6.06192	0.00006

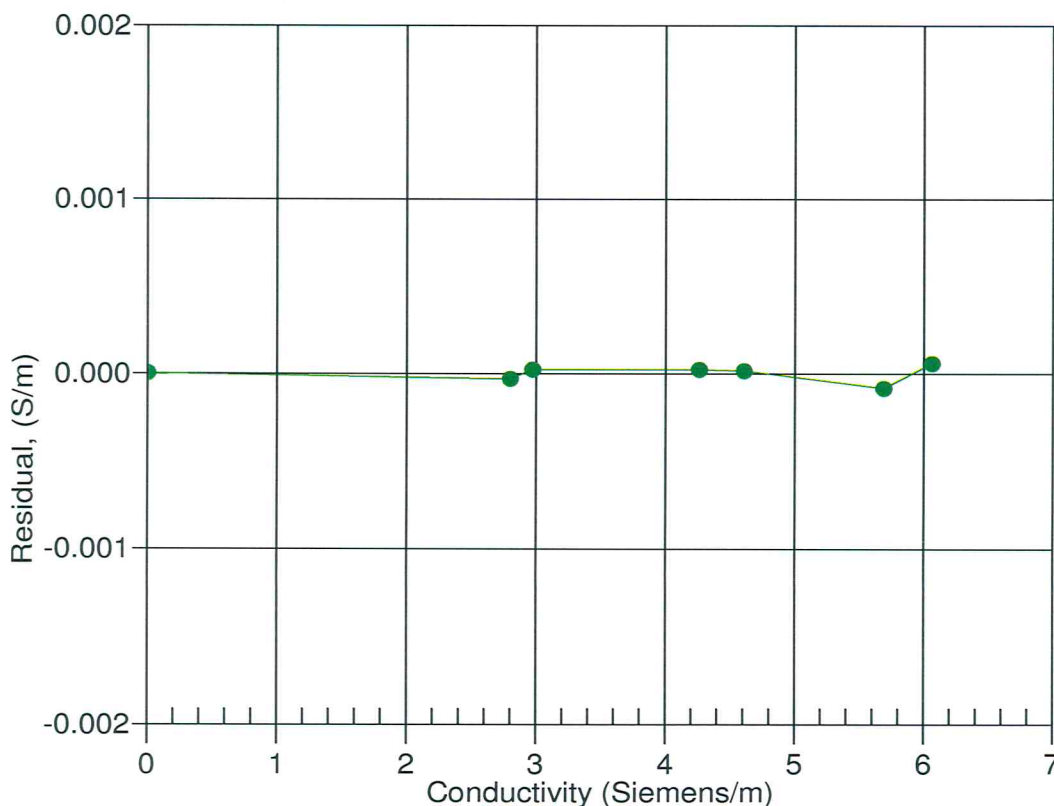
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



06-May-15 1.0000000