

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3520
CALIBRATION DATE: 23-Oct-12

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

GHIJ COEFFICIENTS

g = -1.02071859e+001
h = 1.25666926e+000
i = -1.94500776e-003
j = 1.90906034e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.33138782e-007
b = 1.25083198e+000
c = -1.01920041e+001
d = -7.66144727e-005
m = 6.4
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 | 2.85453 | 0.00000 | 0.00000 |
| -1.0000 | 34.8922 | 2.81012 | 5.53206 | 2.81012 | -0.00000 |
| 1.0000 | 34.8925 | 2.98186 | 5.65467 | 2.98187 | 0.00001 |
| 15.0000 | 34.8930 | 4.28002 | 6.50665 | 4.28001 | -0.00001 |
| 18.5000 | 34.8926 | 4.62740 | 6.71619 | 4.62740 | 0.00000 |
| 29.0000 | 34.8897 | 5.71298 | 7.33207 | 5.71300 | 0.00002 |
| 32.5001 | 34.8806 | 6.08594 | 7.53187 | 6.08593 | -0.00001 |

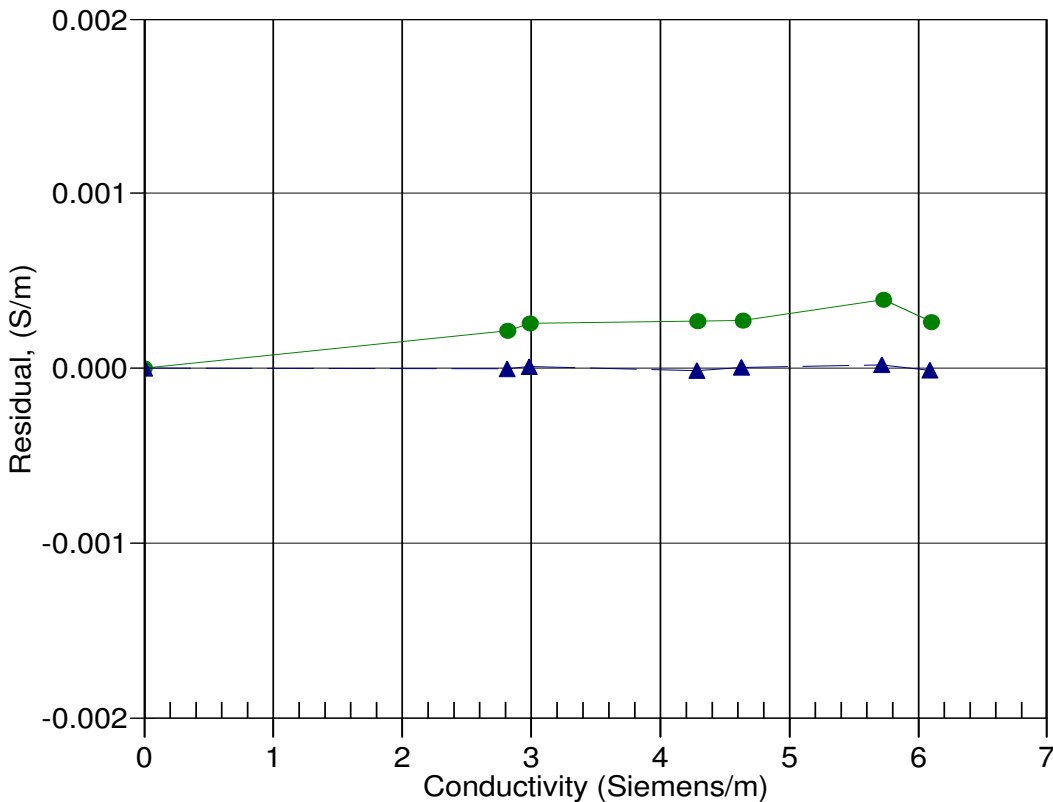
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



● 21-Sep-11 0.9999398
▲ 23-Oct-12 1.0000000