

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1898
CALIBRATION DATE: 31-Jul-09

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

GHIJ COEFFICIENTS

g = -1.06017749e+001
h = 1.51842119e+000
i = 7.45235748e-004
j = 3.31429067e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.38715319e-004
b = 1.51857312e+000
c = -1.06017942e+001
d = -8.37016603e-005
m = 3.2
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 | 2.64045 | 0.00000 | 0.00000 |
| -1.0000 | 34.7165 | 2.79729 | 5.03268 | 2.79729 | 0.00000 |
| 1.0000 | 34.7171 | 2.96829 | 5.14283 | 2.96830 | 0.00001 |
| 15.0000 | 34.7194 | 4.26098 | 5.90908 | 4.26094 | -0.00004 |
| 18.5000 | 34.7197 | 4.60694 | 6.09777 | 4.60695 | 0.00001 |
| 29.0000 | 34.7204 | 5.68838 | 6.65291 | 5.68844 | 0.00006 |
| 32.5000 | 34.7184 | 6.06085 | 6.83354 | 6.06080 | -0.00004 |

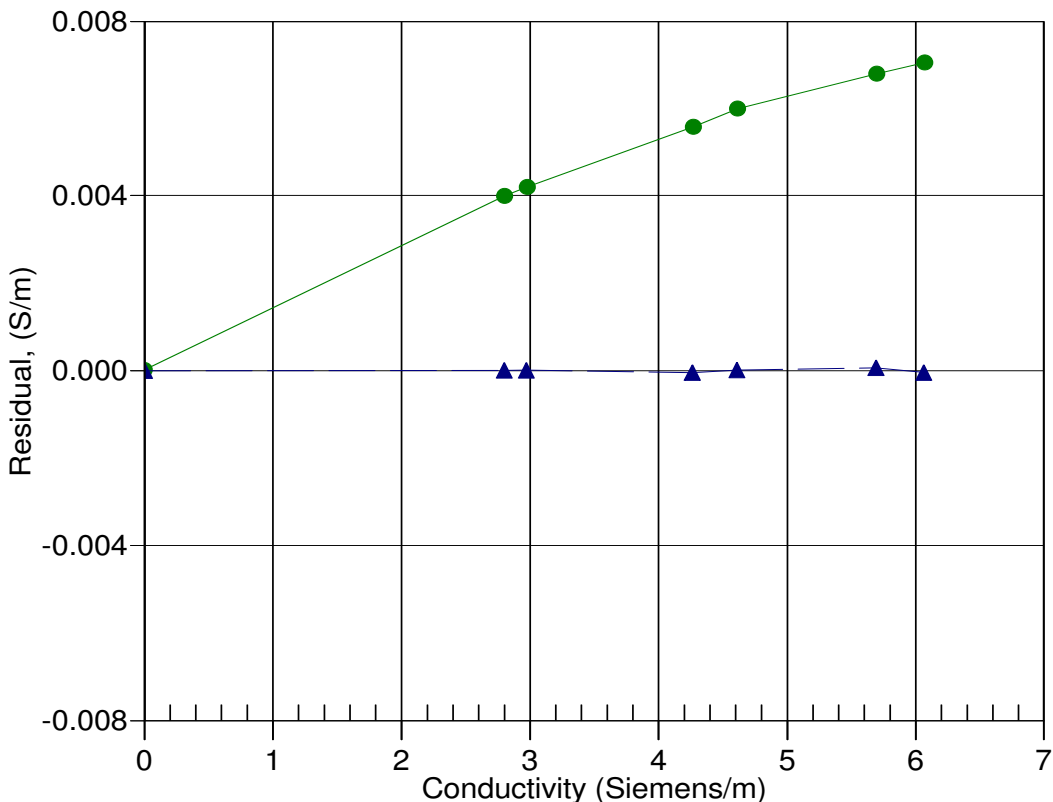
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



● 27-Jan-09 0.9987561
▲ 31-Jul-09 1.0000000