

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: 0436
CALIBRATION DATE: 06-Apr-06

SBE19 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHIJ COEFFICIENTS

g = -3.80489166e+000
h = 4.54647725e-001
i = 8.98757922e-004
j = -2.37348940e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.47922601e-002
b = 4.17341404e-001
c = -3.79480467e+000
d = -1.25090510e-004
m = 2.1
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) |
|-----------------------|-------------------|--------------------------|--------------------|--------------------------|-------------------------|
| 22.0000 | 0.0000 | 0.00000 | 2.88531 | 0.00000 | 0.00000 |
| 1.0000 | 35.1035 | 2.99814 | 8.56460 | 2.99814 | 0.00000 |
| 4.4999 | 35.0831 | 3.30729 | 8.94613 | 3.30730 | 0.00000 |
| 15.0000 | 35.0401 | 4.29579 | 10.06870 | 4.29581 | 0.00001 |
| 18.5000 | 35.0312 | 4.64334 | 10.43443 | 4.64328 | -0.00006 |
| 24.0000 | 35.0215 | 5.20516 | 10.99999 | 5.20521 | 0.00005 |
| 29.0000 | 35.0162 | 5.73062 | 11.50352 | 5.73062 | 0.00000 |
| 32.5001 | 35.0138 | 6.10569 | 11.84980 | 6.10567 | -0.00001 |

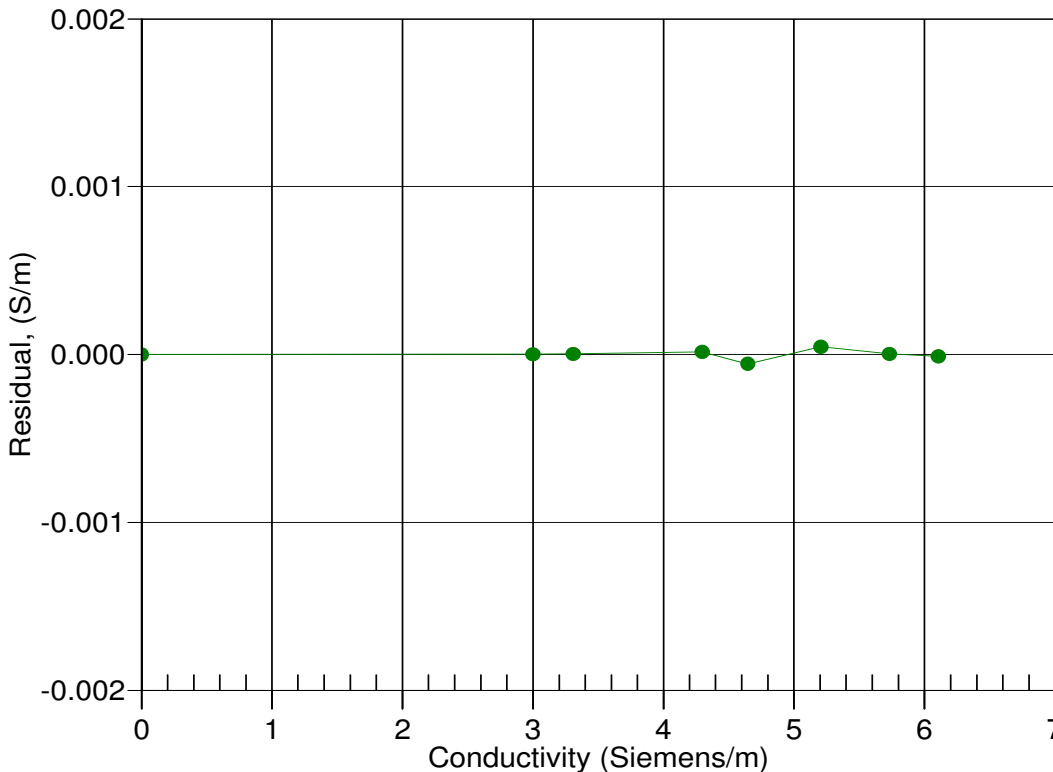
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



06-Apr-06 1.0000000