

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1335
CALIBRATION DATE: 14-Nov-00s

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

GHIJ COEFFICIENTS

g = -4.16241812e+00
h = 5.26195234e-01
i = -9.90382106e-05
j = 3.45068247e-05
CPcor = -9.57e-08 (nominal)
CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 2.19704735e-05
b = 5.25861685e-01
c = -4.16120504e+00
d = -7.95889388e-05
m = 4.1
CPcor = -9.57e-08 (nominal)

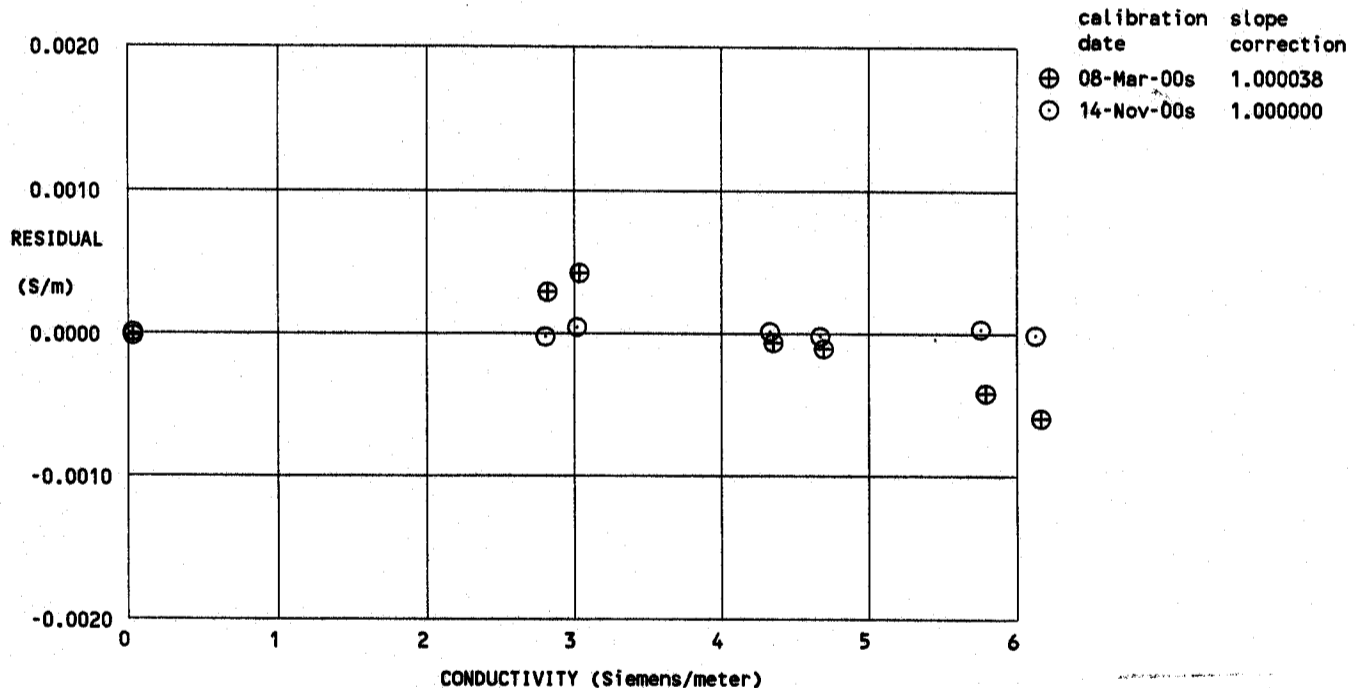
| BATH TEMP (IPTS-68 °C) | BATH SAL (PSU) | BATH COND (Siemens/m) | INST FREQ (kHz) | INST COND (Siemens/m) | RESIDUAL (Siemens/m) |
|---------------------------|-------------------|--------------------------|--------------------|--------------------------|-------------------------|
| 0.0000 | 0.0000 | 0.00000 | 2.81256 | 0.00000 | 0.00000 |
| -1.3469 | 34.8163 | 2.77526 | 7.77819 | 2.77523 | -0.00003 |
| 1.1691 | 34.8167 | 2.99063 | 8.03558 | 2.99067 | 0.00004 |
| 15.2894 | 34.8169 | 4.29967 | 9.44792 | 4.29968 | 0.00001 |
| 18.7277 | 34.8161 | 4.64073 | 9.78188 | 4.64071 | -0.00002 |
| 29.2715 | 34.8114 | 5.72963 | 10.77775 | 5.72966 | 0.00003 |
| 32.7091 | 34.8043 | 6.09577 | 11.09202 | 6.09576 | -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 [deg C]; p = pressure [decibars]; δ = CTcor; ϵ = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients



100% CRUISE
CALIBRATION