

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington 98005 USA
Phone: (425) 643 - 9866 Fax: (425) 643 - 9954 Internet: seabird@seabird.com

SENSOR SERIAL NUMBER = 1347
CALIBRATION DATE: 14-Nov-00s

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

GHIJ COEFFICIENTS

g = -3.71068959e+00
h = 4.88160793e-01
i = -1.53920017e-04
j = 3.64058142e-05

CPcor = -9.57e-08 (nominal)

CTcor = 3.25e-06 (nominal) $\sim 7.76 \times 10^{-8}$ ← CPcor = -9.57e-08 (nominal)

ABCDM COEFFICIENTS

a = 4.45618999e-06
b = 4.88019781e-01
c = -3.71092820e+00
d = -7.46200575e-05
m = 4.7

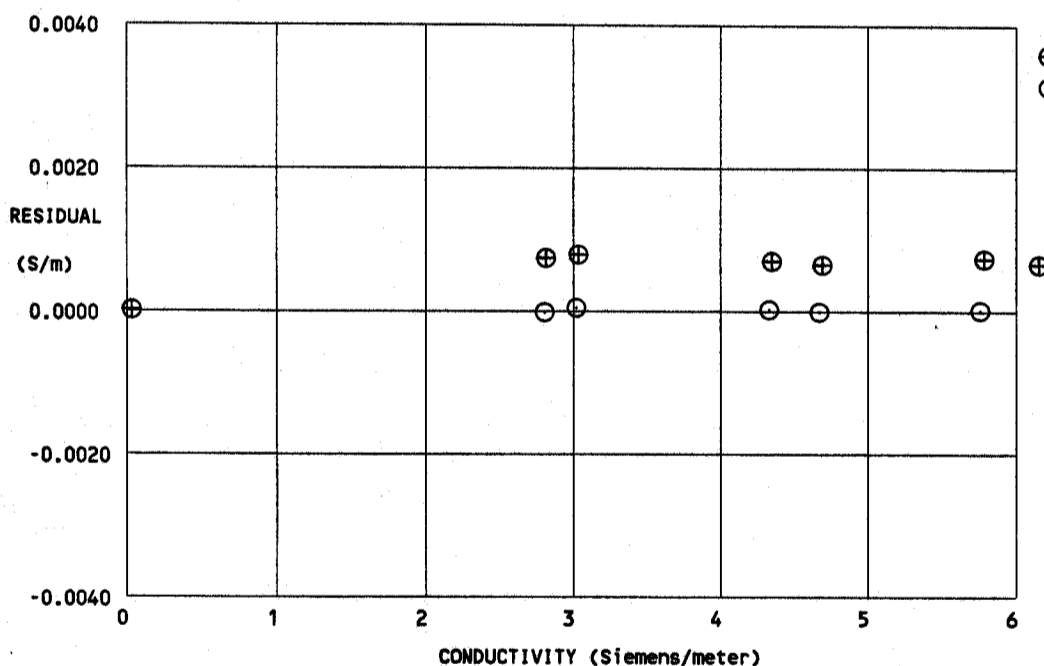
BATH TEMP (IPTS-68 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.75748	0.00000	0.00000
-1.3469	34.8163	2.77526	8.01910	2.77523	-0.00003
1.1691	34.8167	2.99063	8.28813	2.99066	0.00003
15.2894	34.8169	4.29967	9.76222	4.29968	0.00001
18.7277	34.8161	4.64073	10.11034	4.64071	-0.00002
29.2715	34.8114	5.72963	11.14762	5.72963	0.00000

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



calibration date	slope correction
⊕ 18-Nov-99s	0.999856
⊖ 14-Nov-00s	1.000000