

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0436
CALIBRATION DATE: 01-May-04

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

GHIJ COEFFICIENTS

g = -3.80721694e+000
h = 4.55106521e-001
i = 8.03205728e-004
j = -1.94347005e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.42372391e-002
b = 4.17957852e-001
c = -3.79506940e+000
d = -1.07976128e-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	2.88550	-0.00000	-0.00000
1.0000	34.7222	2.96869	8.52801	2.96866	-0.00003
4.5000	34.7020	3.27500	8.90787	3.27505	0.00005
15.0000	34.6587	4.25432	10.02509	4.25430	-0.00002
18.5000	34.6498	4.59866	10.38922	4.59866	0.00000
24.0000	34.6400	5.15529	10.95199	5.15525	-0.00004
29.0000	34.6350	5.67596	11.45336	5.67604	0.00008
32.5000	34.6328	6.04760	11.79792	6.04756	-0.00004

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

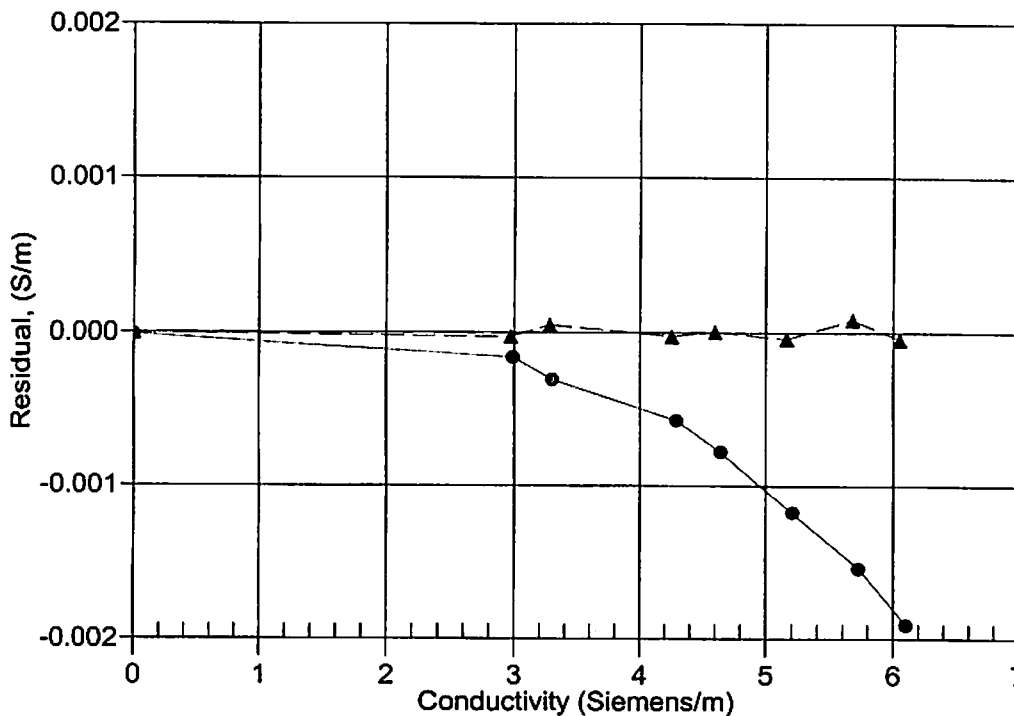
Conductivity = $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$ Siemens/meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

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

Date, Slope Correction

● 16-Nov-02 1.0002174
▲ 01-May-04 1.0000000



**POST CRUISE
CALIBRATION**