

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 436  
 CALIBRATION DATE: 13-May-93

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

### GHIJ COEFFICIENTS

g = -3.81524575e+00  
 h = 4.57630797e-01  
 i = 2.05647418e-04  
 j = 2.04298202e-05  
 CPcor = -9.57e-08 (nominal)  
 CTcor = 3.25e-06 (nominal)

### ABCDM COEFFICIENTS

a = 4.41674972e-04  
 b = 4.55973861e-01  
 c = -3.80644813e+00  
 d = 6.18031778e-04  
 m = 3.1  
 CPcor = -9.57e-08 (nominal)

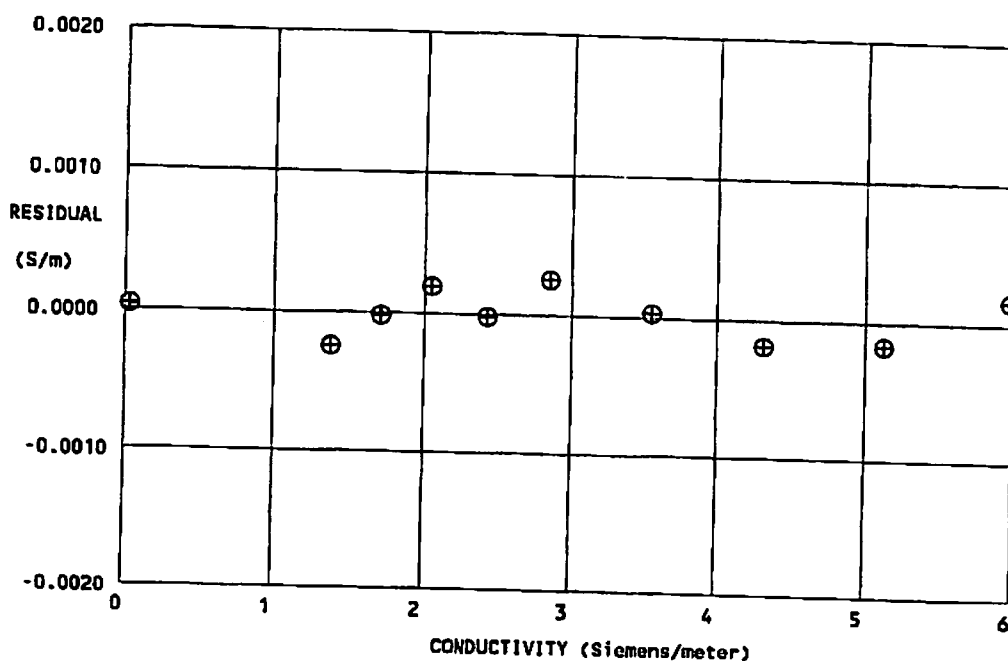
BATH TEMP (IPTS-68 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.88492	0.00003	0.00003
2.9361	13.8340	1.35168	6.14113	1.35144	-0.00024
11.0782	13.8336	1.68074	6.69635	1.68072	-0.00002
18.9031	13.8336	2.01810	7.22088	2.01829	0.00019
27.1958	13.8357	2.39464	7.76346	2.39462	-0.00002
-0.9515	34.9809	2.82074	8.33801	2.82099	0.00025
6.9353	34.9815	3.52066	9.19836	3.52069	0.00003
14.9832	34.9819	4.28777	10.05576	4.28758	-0.00019
23.0327	34.9819	5.09974	10.88889	5.09957	-0.00017
31.0926	34.9815	5.94920	11.69614	5.94936	0.00016

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];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = (instrument conductivity - bath conductivity) using a, b, c, d, m coefficients



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