

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1335  
CALIBRATION DATE: 09-May-02s

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

## GHIJ COEFFICIENTS

g = -4.23601368e+00  
h = 5.35719411e-01  
i = -1.63542199e-04  
j = 3.84169534e-05  
CPcor = -9.57e-08 (nominal)  
CTcor = 3.25e-06 (nominal)

## ABCDM COEFFICIENTS

a = 1.29913322e-05  
b = 5.35308979e-01  
c = -4.23525482e+00  
d = -9.44423108e-05  
m = 4.3  
CPcor = -9.57e-08 (nominal)

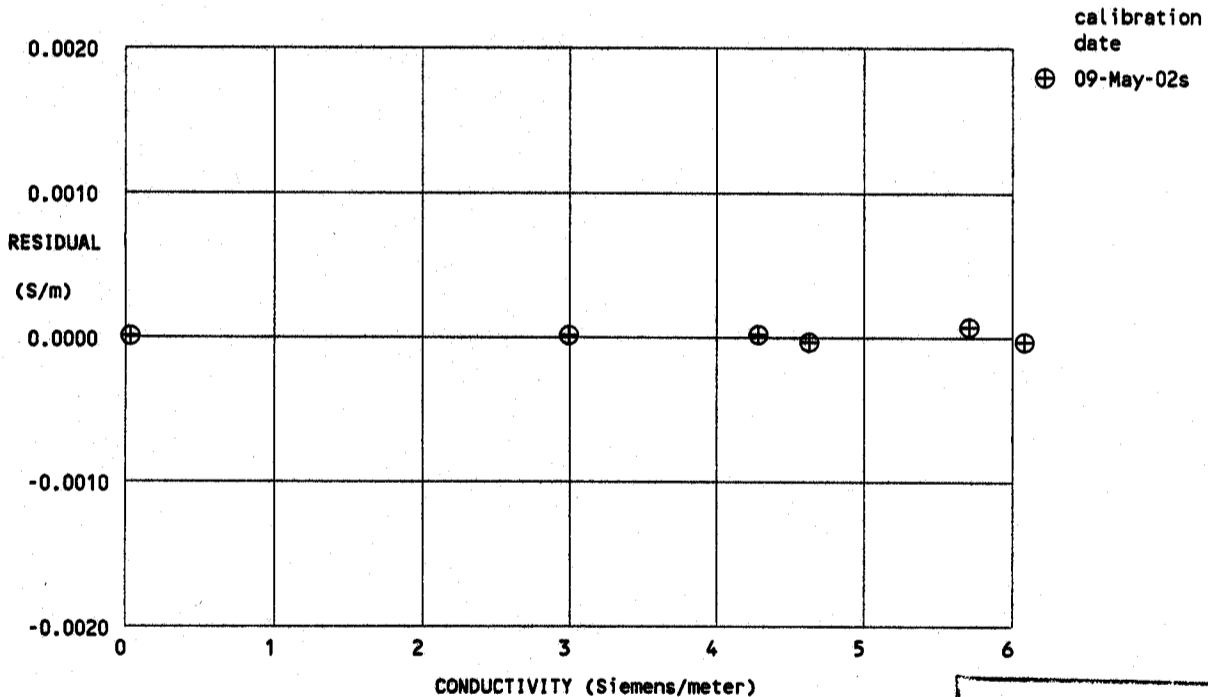
BATH TEMP (ITS-90 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.81237	-0.00000	-0.00000
0.9991	34.6757	2.96501	7.94488	2.96502	0.00001
14.9991	34.6760	4.25613	9.33074	4.25614	0.00001
18.4991	34.6762	4.60170	9.66740	4.60166	-0.00004
28.9991	34.6734	5.68145	10.64976	5.68151	0.00006
32.4991	34.6673	6.05284	10.96672	6.05280	-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 [deg C]; p = pressure [decibars];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

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



CALIBRATION  
AFTER  
MODIFICATIONS