

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1347  
CALIBRATION DATE: 19-Jun-01s

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

## GHIJ COEFFICIENTS

g = -3.70629517e+00  
h = 4.87122911e-01  
i = 5.16052716e-06  
j = 3.06056848e-05  
CPcor = -9.57e-08 (nominal)  
CTcor = 3.25e-06 (nominal)

## ABCDM COEFFICIENTS

a = 3.04052834e-05  
b = 4.87188643e-01  
c = -3.70687173e+00  
d = -9.17464494e-05  
m = 4.0  
CPcor = -9.57e-08 (nominal)

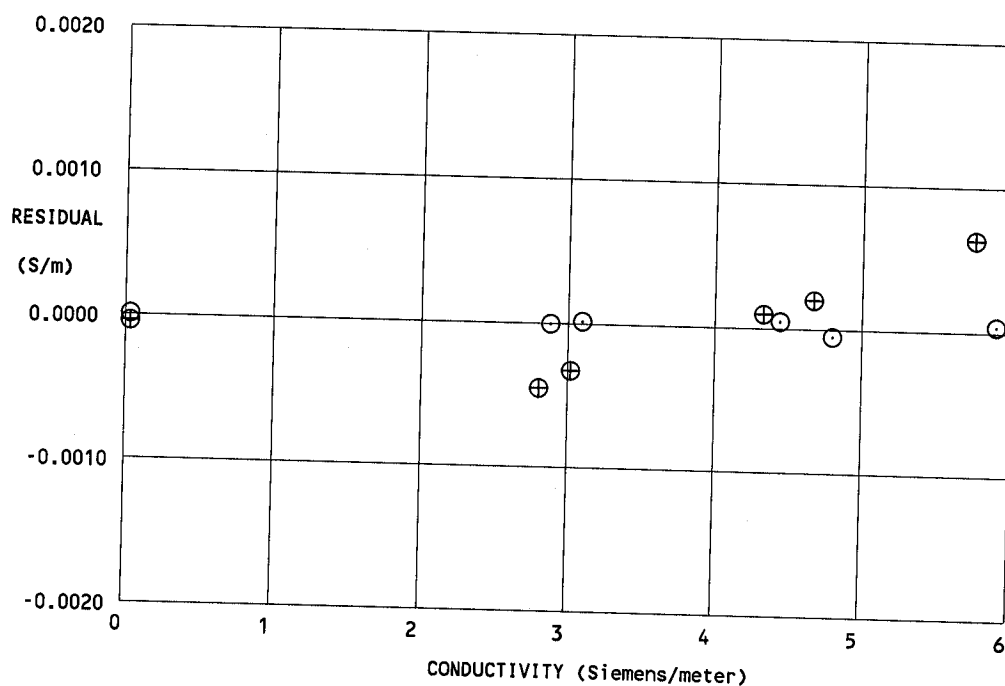
BATH TEMP (IPTS-68 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.75766	0.00000	0.00000
-1.4235	35.9427	2.84990	8.11387	2.84989	-0.00001
1.0383	35.9431	3.06629	8.38091	3.06630	0.00001
15.2058	35.9443	4.41539	9.88164	4.41543	0.00004
18.6866	35.9456	4.77044	10.23925	4.77038	-0.00006
29.1130	35.9453	5.87753	11.28035	5.87756	0.00003
32.6785	35.9410	6.26833	11.62491	6.26831	-0.00002

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 date	slope correction
⊕ 14-Nov-00s	0.999971
⊙ 19-Jun-01s	1.000000

POST CRUISE  
CALIBRATION