

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1347  
CALIBRATION DATE: 12-Jul-02s

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

GHIJ COEFFICIENTS

g = -3.70348605e+00  
h = 4.86497184e-01  
i = 1.27382290e-04  
j = 2.57918784e-05  
CPcor = -9.57e-08 (nominal)  
CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 5.57228266e-05  
b = 4.86833786e-01  
c = -3.70468714e+00  
d = -8.85111098e-05  
m = 3.8  
CPcor = -9.57e-08 (nominal)

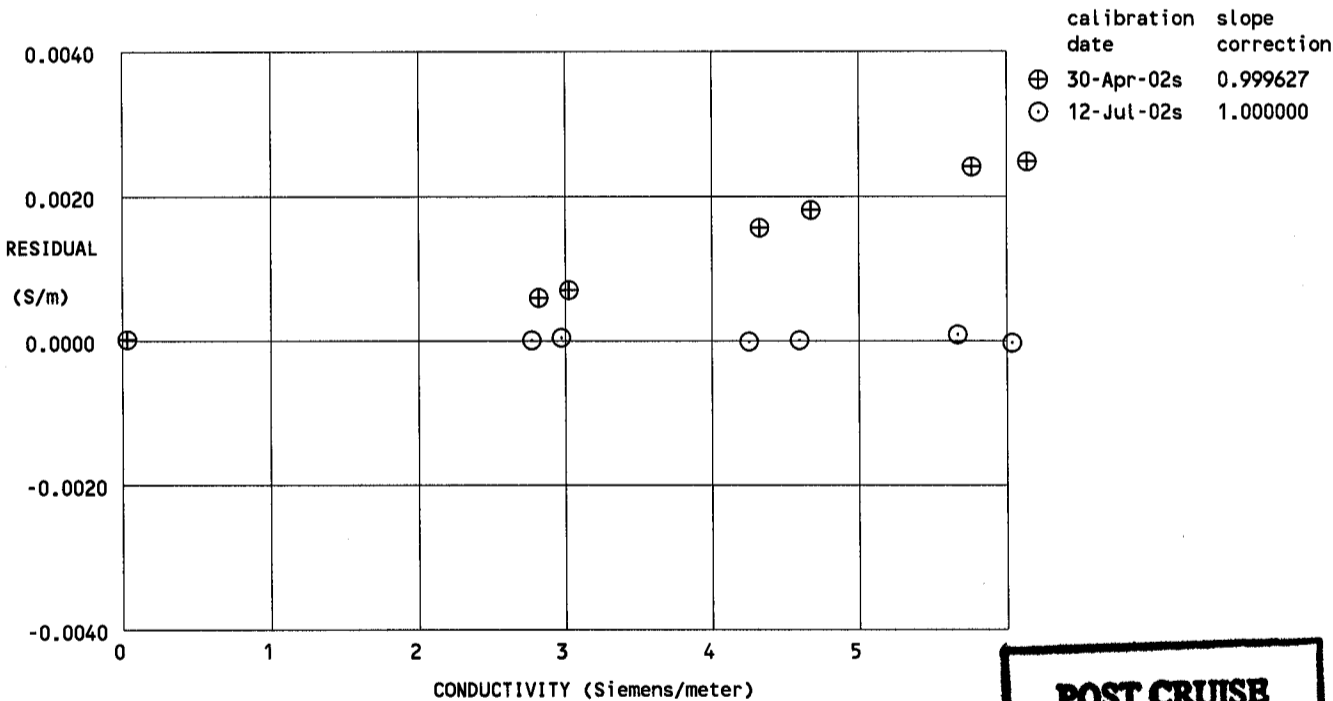
BATH TEMP (ITS-90 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.75753	-0.00000	-0.00000
-1.4001	34.3673	2.73830	7.97191	2.73829	-0.00001
0.9998	34.3674	2.94121	8.22688	2.94124	0.00003
14.9998	34.3688	4.22246	9.68020	4.22243	-0.00003
18.4998	34.3690	4.56537	10.03285	4.56536	-0.00001
28.9998	34.3667	5.63688	11.06091	5.63695	0.00007
32.4999	34.3621	6.00566	11.39260	6.00561	-0.00005

Conductivity = (g + hf<sup>2</sup> + if<sup>3</sup> + jf<sup>4</sup>) / [10(1 + δt + εp)] Siemens/meter

Conductivity = (af<sup>m</sup> + bf<sup>2</sup> + c + dt) / [10(1 + εp)] Siemens/meter

t = temperaure [deg C]; p = pressure [decibars]; δ = CTcor; ε = CPcor;

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



POST CRUISE  
CALIBRATION