

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 775
 CALIBRATION DATE: 30-Jul-96s

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

GHJ COEFFICIENTS

g = -4.10563692e+00
 h = 4.90923146e-01
 i = 8.66059416e-04
 j = -1.19105406e-05
 CPcor = -9.57e-08 (nominal)
 CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 2.61994482e-03
 b = 4.87911282e-01
 c = -4.10182444e+00
 d = -9.32357976e-05
 m = 2.6
 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	2.88486	-0.00000	-0.00000
1.0630	34.3890	2.94830	8.21894	2.94831	0.00001
4.5670	34.3898	3.25437	8.58318	3.25437	-0.00000
15.1730	34.3906	4.24164	9.66377	4.24165	0.00001
18.6290	34.3908	4.58076	10.00761	4.58072	-0.00004
29.2130	34.3916	5.66287	11.03256	5.66294	0.00007
32.5810	34.3904	6.01868	11.34893	6.01864	-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]; δ = CTcor; ϵ = CPcor;

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

