

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 775
 CALIBRATION DATE: 20-Jun-02

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

GHIJ COEFFICIENTS

g = -4.10644980e+00
 h = 4.90890213e-01
 i = 9.01830986e-04
 j = -1.44094904e-05
 CPcor = -9.57e-08 (nominal)
 CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 6.22492590e-03
 b = 4.82702943e-01
 c = -4.09472794e+00
 d = -8.64528870e-05
 m = 2.4
 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)
22.0000	0.0000	0.00000	2.88500	-0.00000	-0.00000
0.9999	35.0617	2.99492	8.27476	2.99490	-0.00002
4.5000	35.0605	3.30548	8.64186	3.30553	0.00005
15.0001	35.0576	4.29808	9.72110	4.29802	-0.00006
18.5000	35.0571	4.64685	10.07261	4.64686	0.00001
23.9999	35.0562	5.21034	10.61553	5.21035	0.00001
29.0000	35.0550	5.73698	11.09865	5.73703	0.00005
32.5000	35.0531	6.11259	11.43047	6.11255	-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

