

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2980  
CALIBRATION DATE: 22-Aug-06

SBE4 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Seimens/meter

GHIJ COEFFICIENTS

g = -1.05696936e+001  
h = 1.44396432e+000  
i = 1.80872908e-005  
j = 6.70639274e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.04357993e-004  
b = 1.44383105e+000  
c = -1.05693458e+001  
d = -8.34727462e-005  
m = 3.8  
CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.70503	0.00000	0.00000
-1.0001	34.7503	2.79975	5.16472	2.79975	-0.00000
1.0278	34.7506	2.97329	5.27951	2.97330	0.00001
14.9998	34.7515	4.26449	6.06538	4.26447	-0.00001
18.4999	34.7514	4.61068	6.25924	4.61067	-0.00000
28.9999	34.7502	5.69270	6.82956	5.69273	0.00003
32.4998	34.7474	6.06531	7.01513	6.06529	-0.00002

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 = temperature[°C]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

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

