SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1070
CALIBRATION DATE: 03-Nov-09

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

GHIJ COEFFICIENTS

```
g = -4.10374419e+000
h =  5.93412812e-001
i = -4.52629026e-005
j =  3.50875964e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  3.19850404e-005
b =  5.93236721e-001
c = -4.10310572e+000
d = -8.04103328e-005
m =  4.0
CPcor = -9.5700e-008 (nominal)
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BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.62946	0.00000	0.00000
-0.9999	34.8501	2.80705	7.35365	2.80705	-0.00001
1.0001	34.8501	2.97859	7.54660	2.97861	0.00002
15.0001	34.8516	4.27549	8.86877	4.27546	-0.00004
18.5002	34.8514	4.62254	9.18996	4.62255	0.00001
29.0002	34.8502	5.70727	10.12717	5.70731	0.00004
32.5001	34.8448	6.08041	10.42966	6.08038	-0.00003

Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \varepsilon p)$ Siemens/meter

Conductivity = $(af^m + bf^2 + c + dt) / [10 (1 + \varepsilon p)$ Siemens/meter

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

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