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: 1538
CALIBRATION DATE: 06-Jul-06

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

GHIJ COEFFICIENTS

```
g = -4.20720840e+000
h =  4.70658801e-001
i = -1.10741140e-004
j =  2.68332205e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  1.20374729e-005
b =  4.70305796e-001
c = -4.20600200e+000
d = -8.24923572e-005
m =  4.2
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	2.99010	0.00000	0.00000
-0.9948	34.8804	2.80970	8.27659	2.80971	0.00001
1.0763	34.8806	2.98756	8.50071	2.98756	-0.00000
14.9999	34.8815	4.27875	9.97604	4.27871	-0.00004
18.4999	34.8808	4.62599	10.33646	4.62603	0.00004
28.9999	34.8793	5.71146	11.38813	5.71146	0.00000
32.4999	34.8719	6.08458	11.72738	6.08457	-0.00000

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