SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3073
CALIBRATION DATE: 15-Dec-10

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

GHIJ COEFFICIENTS

```
g = -1.04672128e+001
h =  1.25017093e+000
i =  7.49442931e-004
j =  1.06446081e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  8.59563139e-004
b =  1.24987061e+000
c = -1.04666278e+001
d = -8.42501582e-005
m =  3.0
CPcor = -9.5700e-008 (nominal)
```

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	2.89094	0.00000	0.00000
-1.0000	34.8631	2.80799	5.54286	2.80799	-0.00001
1.0000	34.8631	2.97958	5.66467	2.97960	0.00001
15.0000	34.8640	4.27684	6.51179	4.27683	-0.00002
18.5000	34.8636	4.62397	6.72029	4.62398	0.00001
29.0000	34.8625	5.70903	7.33362	5.70904	0.00001
32.5000	34.8566	6.08222	7.53294	6.08221	-0.00001

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