Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1538
CALIBRATION DATE: 12-Jul-12

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

GHIJ COEFFICIENTS

```
g = -4.21001195e+000
h =  4.71133619e-001
i = -1.43939781e-004
j =  2.84904347e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
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ABCDM COEFFICIENTS

```
a =  9.14658288e-006
b =  4.70695112e-001
c = -4.20867708e+000
d = -8.43282143e-005
m =  4.3
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	2.98985	0.00000	0.00000
-0.9999	34.7017	2.79621	8.25701	2.79625	0.00004
1.0001	34.7030	2.96721	8.47290	2.96718	-0.00003
15.0001	34.7043	4.25934	9.95255	4.25929	-0.00005
18.5000	34.7041	4.60509	10.31203	4.60510	0.00001
29.0001	34.7029	5.68584	11.36108	5.68593	0.00009
32.5001	34.6981	6.05772	11.69965	6.05765	-0.00006

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