Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1018
CALIBRATION DATE: 18-Jul-13

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

GHIJ COEFFICIENTS

```
g = -4.09024980e+000
h =  4.62892322e-001
i = -4.53714929e-004
j =  4.71005854e-005
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  2.11286050e-006
b =  4.61324408e-001
c = -4.08504040e+000
d = -8.78165756e-005
m =  4.9
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	2.97559	0.00000	0.00000
-1.0000	34.8468	2.80680	8.33964	2.80685	0.00004
1.0001	34.8476	2.97839	8.55847	2.97836	-0.00003
15.0001	34.8492	4.27523	10.05758	4.27518	-0.00005
18.5000	34.8497	4.62232	10.42156	4.62232	0.00000
29.0001	34.8487	5.70704	11.48286	5.70714	0.00010
32.5001	34.8447	6.08039	11.82524	6.08032	-0.00007

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