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: 2208
CALIBRATION DATE: 17-Jan-12

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

GHIJ COEFFICIENTS

```
g = -1.03261887e+001
h =  1.63566226e+000
i = -2.96501333e-003
j =  3.22444595e-004
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  1.83125540e-007
b =  1.62780302e+000
c = -1.03106368e+001
d = -8.15813465e-005
m =  6.9
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	2.51677	0.00000	0.00000
-0.9980	34.9264	2.81279	4.85878	2.81278	-0.00001
1.0000	34.9265	2.98448	4.96605	2.98449	0.00000
15.0000	34.9266	4.28371	5.71245	4.28374	0.00003
18.5000	34.9270	4.63146	5.89606	4.63144	-0.00002
29.0000	34.9246	5.71805	6.43583	5.71803	-0.00003
32.5000	34.9144	6.09116	6.61091	6.09118	0.00002

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