SEA-BIRD ELECTRONICS, INC.

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

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

SENSOR SERIAL NUMBER: 2489
CALIBRATION DATE: 16-Feb-11

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

GHIJ COEFFICIENTS

```
g = -1.03233538e+001
h =  1.61371710e+000
i = -1.81023808e-003
j =  2.41833019e-004
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

ABCDM COEFFICIENTS

```
a =  3.56558510e-006
b =  1.60942132e+000
c = -1.03158457e+001
d = -8.56468310e-005
m =  5.5
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	2.53166	0.00000	0.00000
-1.0000	34.9798	2.81651	4.88836	2.81649	-0.00003
1.0000	34.9793	2.98857	4.99638	2.98860	0.00003
15.0000	34.9796	4.28952	5.74714	4.28951	-0.00000
18.5000	34.9790	4.63761	5.93180	4.63760	-0.00002
29.0001	34.9758	5.72550	6.47473	5.72553	0.00003
32.5000	34.9643	6.09887	6.65070	6.09885	-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