

**SEA-BIRD ELECTRONICS, INC.**  
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SENSOR SERIAL NUMBER: 1374  
CALIBRATION DATE: 17-Aug-06

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

GHIJ COEFFICIENTS

g = -4.32950284e+000  
h = 5.28565417e-001  
i = -1.44826739e-004  
j = 3.61405654e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.63066216e-005  
b = 5.28115831e-001  
c = -4.32803677e+000  
d = -8.11339971e-005  
m = 4.2  
CPcor = -9.5700e-008 (nominal)

| BATH TEMP<br>(ITS-90) | BATH SAL<br>(PSU) | BATH COND<br>(Siemens/m) | INST FREQ<br>(kHz) | INST COND<br>(Siemens/m) | RESIDUAL<br>(Siemens/m) |
|-----------------------|-------------------|--------------------------|--------------------|--------------------------|-------------------------|
| 0.0000                | 0.0000            | 0.00000                  | 2.86232            | 0.00000                  | 0.00000                 |
| -1.0002               | 34.7866           | 2.80239                  | 7.81570            | 2.80238                  | -0.00001                |
| 1.0373                | 34.7870           | 2.97693                  | 8.02314            | 2.97695                  | 0.00002                 |
| 14.9998               | 34.7878           | 4.26847                  | 9.41497            | 4.26844                  | -0.00002                |
| 18.4999               | 34.7879           | 4.61500                  | 9.75415            | 4.61500                  | 0.00001                 |
| 28.9999               | 34.7872           | 5.69808                  | 10.74399           | 5.69811                  | 0.00003                 |
| 32.4999               | 34.7841           | 6.07100                  | 11.06379           | 6.07098                  | -0.00002                |

Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

Conductivity =  $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$  Siemens/meter

t = temperature[°C]; p = pressure[decibars];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction

