

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3311
CALIBRATION DATE: 20-Jan-08

SBE21 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHJ COEFFICIENTS

$g = -4.14066719e+000$
 $h = 4.88975494e-001$
 $i = -5.75616920e-004$
 $j = 5.46104953e-005$
 $CPcor = -9.5700e-008$ (nominal)
 $CTcor = 3.2500e-006$ (nominal)

ABCDM COEFFICIENTS

$a = 1.74484691e-006$
 $b = 4.86826616e-001$
 $c = -4.13085503e+000$
 $d = -9.18786217e-005$
 $m = 5.0$
 $CPcor = -9.5700e-008$ (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2.91361	0.00000	0.00000
1.0000	34.7606	2.97166	8.32973	2.97167	0.00002
4.4999	34.7410	3.27831	8.69763	3.27830	-0.00001
15.0000	34.6983	4.25867	9.77982	4.25864	-0.00003
18.5000	34.6890	4.60330	10.13228	4.60331	0.00001
24.0000	34.6785	5.16039	10.67673	5.16040	0.00001
29.0000	34.6723	5.68138	11.16120	5.68140	0.00002
32.5000	34.6680	6.05305	11.49389	6.05303	-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]; δ = $CTcor$; ϵ = $CPcor$;

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

Date, Slope Correction

20-Jan-08 1.0000000

