

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

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

SENSOR SERIAL NUMBER: 3009
CALIBRATION DATE: 31-Mar-06

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

GHIJ COEFFICIENTS

$g = -1.04853636e+001$
 $h = 1.48757170e+000$
 $i = 3.96166339e-004$
 $j = 4.86852072e-005$
 $CPcor = -9.5700e-008$ (nominal)
 $CTcor = 3.2500e-006$ (nominal)

ABCDM COEFFICIENTS

$a = 3.28017820e-004$
 $b = 1.48763735e+000$
 $c = -1.04850353e+001$
 $d = -8.25934234e-005$
 $m = 3.4$
 $CPcor = -9.5700e-008$ (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	2.65368	0.00000	0.00000
-1.0000	34.8845	2.80956	5.08708	2.80954	-0.00002
1.0471	34.8848	2.98535	5.20154	2.98537	0.00002
15.0000	34.8852	4.27917	5.97642	4.27917	-0.00000
18.5000	34.8847	4.62646	6.16777	4.62645	-0.00001
29.0000	34.8829	5.71200	6.73069	5.71202	0.00002
32.5000	34.8787	6.08564	6.91375	6.08562	-0.00001

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

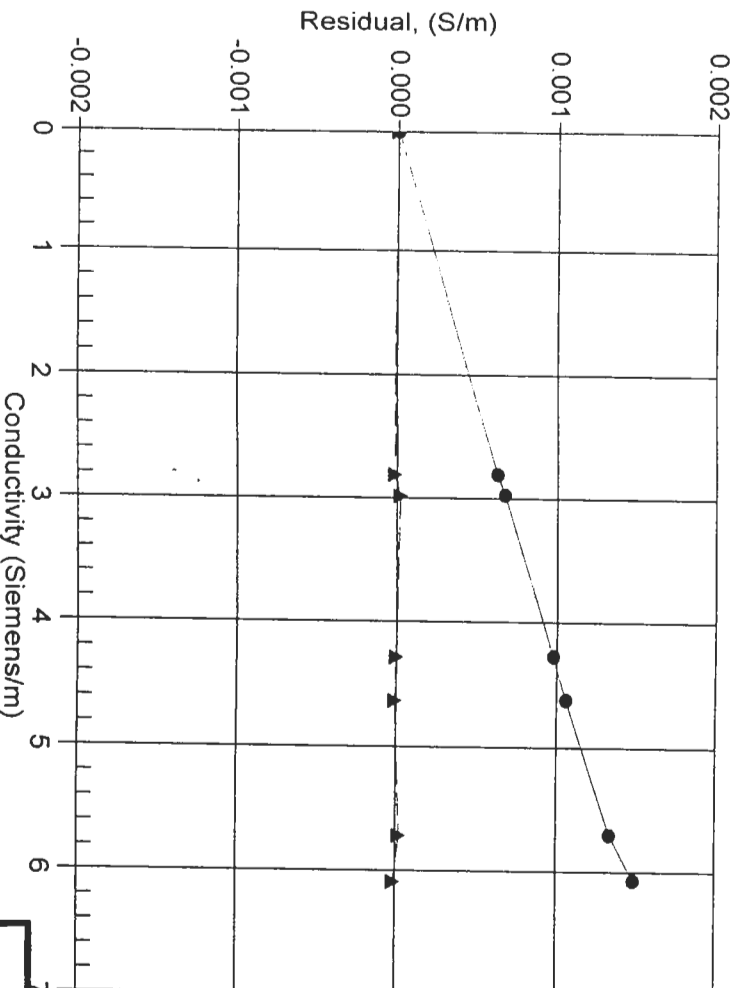
Conductivity = $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$ Siemens/meter

t = temperature[°C]; p = pressure[decibars]; δ = $CTcor$; ϵ = $CPcor$;

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

Date, Slope Correction

● 21-Apr-05 0.9997659
▲ 31-Mar-06 1.0000000



POST CRUISE
CALIBRATION