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: 2770 CALIBRATION DATE: 24-Sep-08

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

GHIJ COEFFICIENTS

g =	-1.00957158e+001	
h =	1.48373559e+000	
i =	-3.83549025e-003	
j =	3.32509133e-004	
CPc	or = -9.5700e - 008	(nom

CTcor = 3.2500e-006 (nominal)

minal)

ABCDM COEFFICIENTS

a = 2.64355878e - 011b = 1.47156349e+000c = -1.00638612e+001d = -5.13677268e - 005m = 10.9

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	2.61534	0.00000	0.00000
-0.9941	34.8924	2.81063	5.09289	2.81059	-0.00004
1.0194	34.8919	2.98349	5.20700	2.98354	0.00004
14.9999	34.8930	4.28001	5.99328	4.28005	0.00003
18.4999	34.8929	4.62742	6.18688	4.62740	-0.00003
29.0000	34.8898	5.71300	6.75590	5.71298	-0.00002
32.4999	34.8831	6.08631	6.94069	6.08633	0.00002

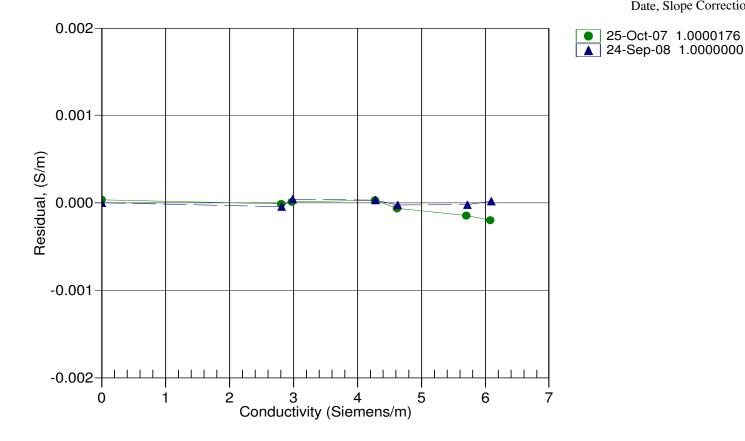
Conductivity = $(g + hf^2 + if^3 + jf^4)/10(1 + \delta t + \epsilon p)$ Siemens/meter

Conductivity = $(af^{m} + bf^{2} + c + dt) / [10 (1 + \varepsilon p)]$ 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





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Conductivity Calibration Report

Customer:	Woods Hole Oceangraphic Institution						
Job Number:	51761		Pate of Repor	rt:	9/24/2008		
Model Number	SBE 04	S	erial Numbe	r:	042770		
sensor drift. If the	calibration identifies a rk is completed. The 'a	ted 'as received', without c problem or indicates cell is received' calibration is n	cleaning is neces	ssary, then a s	econd calibration is		
Users must choose during deployment allows small correc	whether the 'as received t. In SEASOFT enter th	rovided, listing the coeffici d' calibration or the previon the chosen coefficients using calibrations (consult the So deseguent data.	ous calibration b ig the program S	etter represen SEACON. The	nts the sensor condi coefficient 'slope'	ition	
'AS RECEIVED (CALIBRATION'		✓ Perfo	ormed [☐ Not Perform	ed	
Date: 9/24/2008		Drift since	e last cal:	0.000	PSU/mo	onth*	
Comments:							
'CALIBRATION	AFTER CLEANING	G & REPLATINIZING	' Perfo	ormed	✓ Not Perform	ed	
Date:		Drift sinc	e Last cal:		PSU/mo	onth*	
Comments:							
	a.						
*Measured at 3.0	S/m						

Cell cleaning and electrode replatinizing tend to 'reset' the conductivity sensor to its original condition. Lack of drift in post-cleaning-calibration indicates geometric stability of the cell and electrical stability of the sensor circuit.