## **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: 1678 CALIBRATION DATE: 21-Dec-10

SBE 37 CONDUCTIVITY CALIBRATION DATA PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

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## COEFFICIENTS:

g =	-9.834975e-001	CPcor	=	-9.5700e-008
h =	1.370231e-001	CTcor	=	3.2500e-006
i =	-1.320276e-004	WBOTC	_	4.8508e-006
j =	3.362055e-005			

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2680.06	0.0000	0.00000
1.0000	34.8587	2.97924	5372.64	2.97926	0.00001
4.5000	34.8384	3.28660	5576.10	3.28660	-0.00000
15.0000	34.7943	4.26920	6180.80	4.26918	-0.00002
18.5000	34.7846	4.61462	6379.44	4.61461	-0.00001
23.9999	34.7730	5.17289	6687.67	5.17293	0.00005
29.0000	34.7660	5.69501	6963.14	5.69499	-0.00001
32.5000	34.7603	6.06733	7152.90	6.06732	-0.00000

f = INST FREQ \* sqrt(1.0 + WBOTC \* t) / 1000.0

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

 $t = temperature[^{\circ}C)$ ; p = pressure[decibars];  $\delta = CTcor$ ;  $\varepsilon = CPcor$ ;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

