Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0340 CALIBRATION DATE: 07-Nov-12

SBE 45 CONDUCTIVITY CALIBRATION DATA PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g =	-1.053104e+000	CPcor =	-9.5700e-008
h =	1.783903e-001	CTcor =	3.2500e-006
i =	-4.365954e-004	WBOTC =	1.3694e-006
j =	6.535166e-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	2434.26	0.0000	0.00000
1.0000	34.9422	2.98570	4766.14	2.98568	-0.00002
4.5000	34.9216	3.29368	4944.07	3.29370	0.00002
15.0000	34.8777	4.27835	5473.53	4.27835	-0.00000
18.5000	34.8680	4.62449	5647.63	4.62448	-0.00001
24.0000	34.8570	5.18401	5917.97	5.18401	-0.00000
29.0000	34.8503	5.70726	6159.76	5.70727	0.00001
32.5000	34.8462	6.08061	6326.46	6.08061	-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

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

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

