SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2024 CALIBRATION DATE: 05-Jan-11

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

COEFFICIENTS:

g = -9.948822e - 001	CPcor = -9.5700e-008
h = 1.475391e-001	CTcor = 3.2500e-006
i = -1.946559e - 004	WBOTC = $3.8161e-006$
j = 4.128880e - 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	2598.65	0.00000	0.0000
1.0000	34.6607	2.96393	5178.25	2.96394	0.00001
4.4999	34.6408	3.26978	5373.69	3.26978	-0.00000
14.9999	34.5975	4.24759	5954.73	4.24758	-0.00001
18.4999	34.5883	4.59137	6145.64	4.59134	-0.00002
23.9999	34.5779	5.14706	6441.97	5.14708	0.00002
29.0000	34.5716	5.66673	6706.87	5.66676	0.00003
32.5000	34.5675	6.03749	6889.39	6.03747	-0.00003

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

