

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0360
CALIBRATION DATE: 07-Mar-14

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

COEFFICIENTS:

g = -9.981292e-001	CPcor = -9.5700e-008
h = 1.352748e-001	CTcor = 3.2500e-006
i = -1.073898e-004	WBOTC = 5.5203e-007
j = 2.800106e-005	

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2717.18	0.00000	0.00000
1.0000	34.6942	2.96652	5408.94	2.96652	0.00000
4.5000	34.6745	3.27266	5613.06	3.27266	0.00000
15.0000	34.6324	4.25143	6220.05	4.25142	-0.00002
18.5000	34.6236	4.59556	6419.55	4.59555	-0.00000
24.0000	34.6138	5.15182	6729.24	5.15184	0.00002
29.0001	34.6087	5.67214	7006.18	5.67215	0.00001
32.5000	34.6054	6.04336	7197.05	6.04335	-0.00001

$f = \text{INST FREQ} * \text{sqrt}(1.0 + \text{WBOTC} * t) / 1000.0$
 Conductivity = $(g + hf^2 + if^3 + jf^4) / (1 + \delta t + \epsilon p)$ Siemens/meter
 t = temperature[°C]; p = pressure[decibars]; $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;
 Residual = instrument conductivity - bath conductivity

