

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3531
CALIBRATION DATE: 30-Oct-13

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

COEFFICIENTS:

g = -9.858253e-001
h = 1.330086e-001
i = -1.253248e-004
j = 2.975834e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -4.6806e-006

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	2723.83	0.00000	0.00000
1.0000	34.7044	2.96731	5447.61	2.96732	0.00001
4.5000	34.6849	3.27355	5653.84	3.27354	-0.00001
15.0000	34.6427	4.25256	6266.97	4.25255	-0.00001
18.5000	34.6337	4.59675	6468.44	4.59676	0.00001
24.0000	34.6237	5.15313	6781.13	5.15315	0.00002
29.0000	34.6181	5.67350	7060.69	5.67349	-0.00001

$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

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

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

Residual = instrument conductivity - bath conductivity

