

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0088
CALIBRATION DATE: 17-Jun-09

SBE 49 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.913365e-001
h = 1.322965e-001
i = -1.204171e-004
j = 2.920607e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-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	2738.53	0.0000	0.00000
1.0001	34.7433	2.97033	5467.80	2.9703	-0.00001
4.5000	34.7236	3.27684	5674.51	3.2768	0.00001
15.0000	34.6812	4.25679	6289.05	4.2568	0.00001
18.5000	34.6718	4.60126	6490.95	4.6013	0.00000
24.0000	34.6606	5.15802	6804.28	5.1580	0.00000
29.0059	34.6539	5.67933	7084.73	5.6793	-0.00003
32.5165	34.6498	6.05200	7278.42	6.0520	0.00002

f = INST FREQ / 1000.0

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

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

