

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0088
CALIBRATION DATE: 03-Jun-09

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

COEFFICIENTS:

g = -9.914544e-001

CPcor = -9.5700e-008

h = 1.322698e-001

CTcor = 3.2500e-006

i = -1.082963e-004

j = 2.977503e-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	2738.59	0.0000	0.00000
1.0000	34.6421	2.96249	5461.34	2.9625	0.00001
4.5000	34.6227	3.26825	5667.61	3.2682	-0.00000
15.0000	34.5808	4.24577	6280.85	4.2458	-0.00001
18.5001	34.5718	4.58943	6482.35	4.5894	-0.00000
24.0000	34.5619	5.14495	6795.08	5.1450	0.00001
29.0000	34.5558	5.66443	7074.65	5.6644	0.00001
32.5001	34.5522	6.03513	7267.34	6.0351	-0.00001

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

