Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0042
CALIBRATION DATE: 13-Apr-13

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

COEFFICIENTS:

g = -9.914710e-001
h = 1.449836e-001
i = -2.085553e-004
j = 3.959982e-005

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

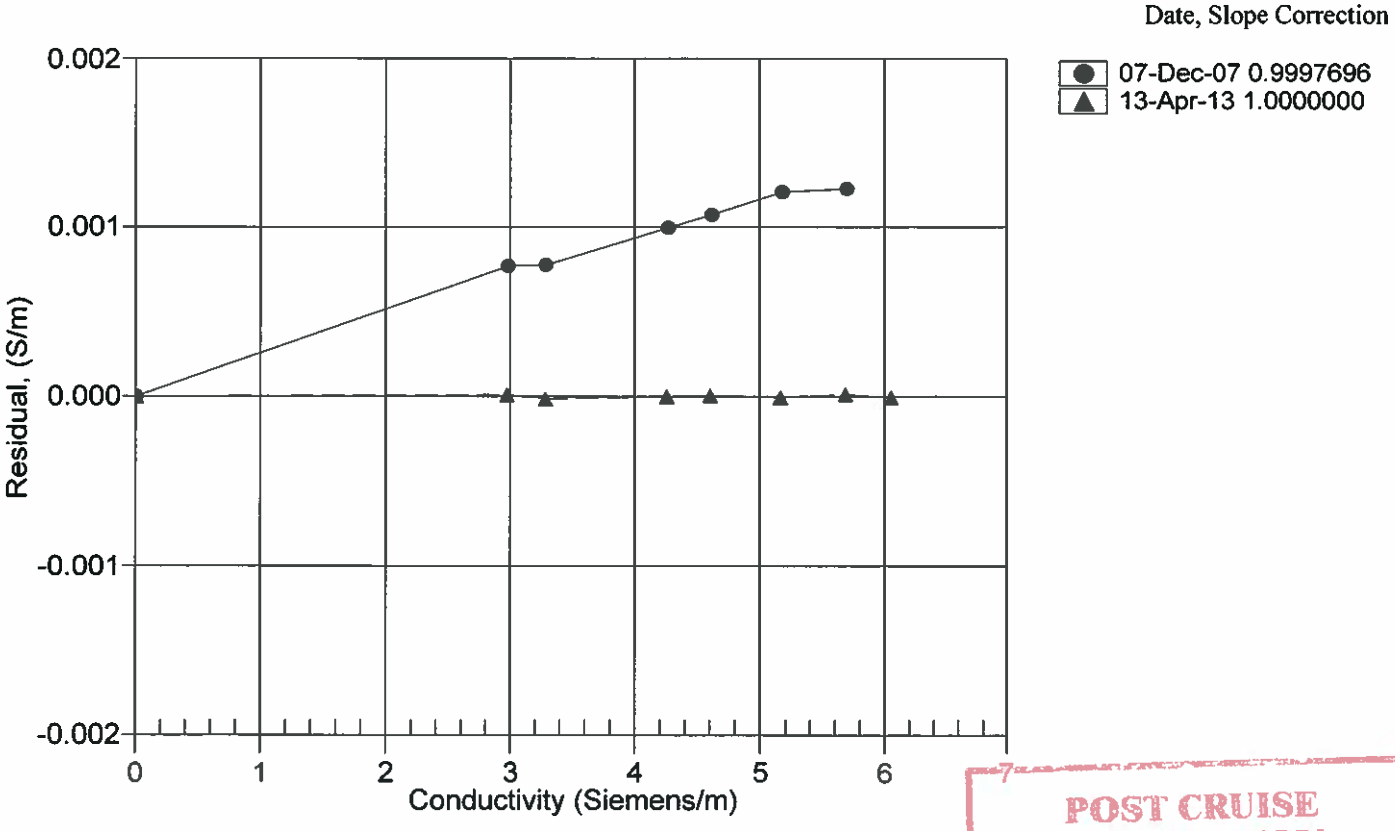
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2617.53	0.0000	0.00000
1.0000	34.7599	2.97160	5228.41	2.9716	0.00001
4.5000	34.7404	3.27827	5426.15	3.2783	-0.00001
15.0000	34.6979	4.25862	6014.04	4.2586	-0.00000
18.5000	34.6892	4.60332	6207.23	4.6033	0.00000
24.0000	34.6795	5.16052	6507.05	5.1605	-0.00001
29.0000	34.6742	5.68166	6775.13	5.6817	0.00001
32.5000	34.6718	6.05364	6959.95	6.0536	-0.00001

f = INST FREQ / 1000.0

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

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

Residual = instrument conductivity - bath conductivity



POST CRUISE CALIBRATION