

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0085
CALIBRATION DATE: 20-Apr-10

SBE 45
Micro TSG

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

COEFFICIENTS:

g = -1.055711e+000
h = 1.527478e-001
i = -1.710141e-004
j = 3.828518e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.3004e-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	2630.32	0.00000	0.00000
1.0000	34.6107	2.96006	5125.22	2.96006	0.00000
4.5001	34.5908	3.26555	5315.77	3.26554	-0.00001
14.9999	34.5484	4.24220	5882.93	4.24221	0.00001
18.4999	34.5392	4.58555	6069.45	4.58556	0.00001
24.0000	34.5292	5.14062	6359.10	5.14061	-0.00001
29.0000	34.5231	5.65967	6618.18	5.65966	-0.00002
32.5001	34.5196	6.03009	6796.85	6.03010	0.00001

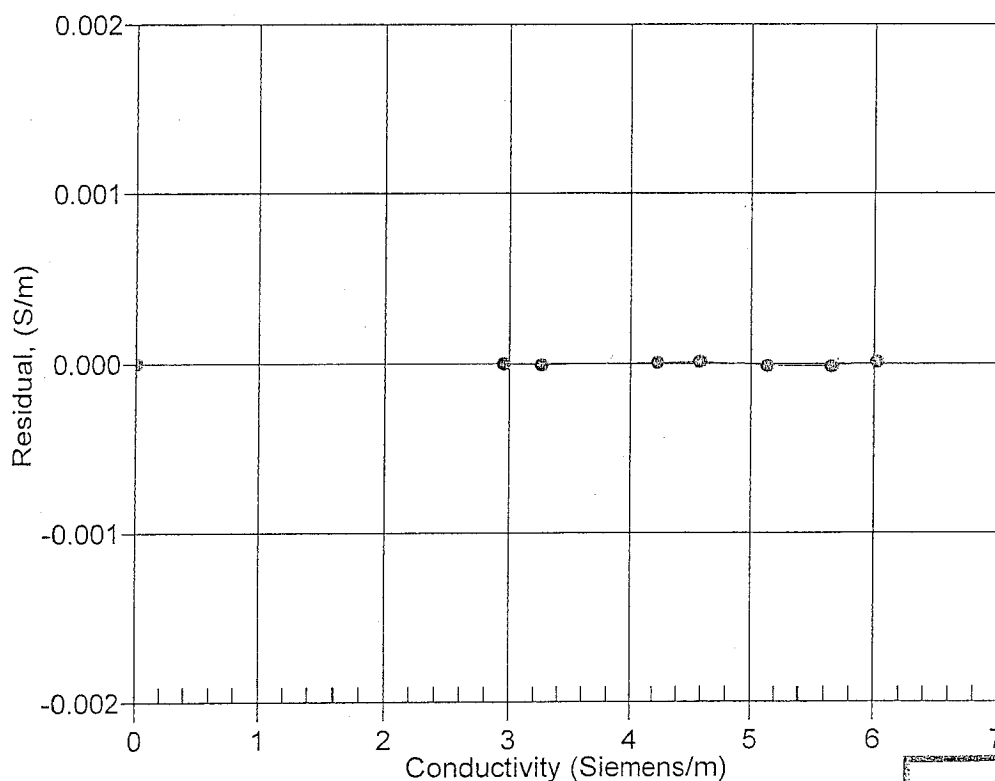
$f = \text{INST FREQ} * \text{sqrt}(1.0 + \text{WBOTC} * t) / 1000.0$

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

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

Residual = instrument conductivity - bath conductivity

Date, Slope Correction



20-Apr-10 1.0000000

CALIBRATION
AFTER
MODIFICATIONS