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SENSOR SERIAL NUMBER: 2973  
CALIBRATION DATE: 14-Jul-05

SBE4 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Seimens/meter

GHIJ COEFFICIENTS

g = -1.08533669e+001  
h = 1.48909926e+000  
i = -9.70259281e-003  
j = 6.55483466e-004  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = -6.05041709e-002  
b = 1.52482621e+000  
c = -1.07765122e+001  
d = 2.08638236e-004  
m = 2.1  
CPcor = -9.5700e-008 (nominal)

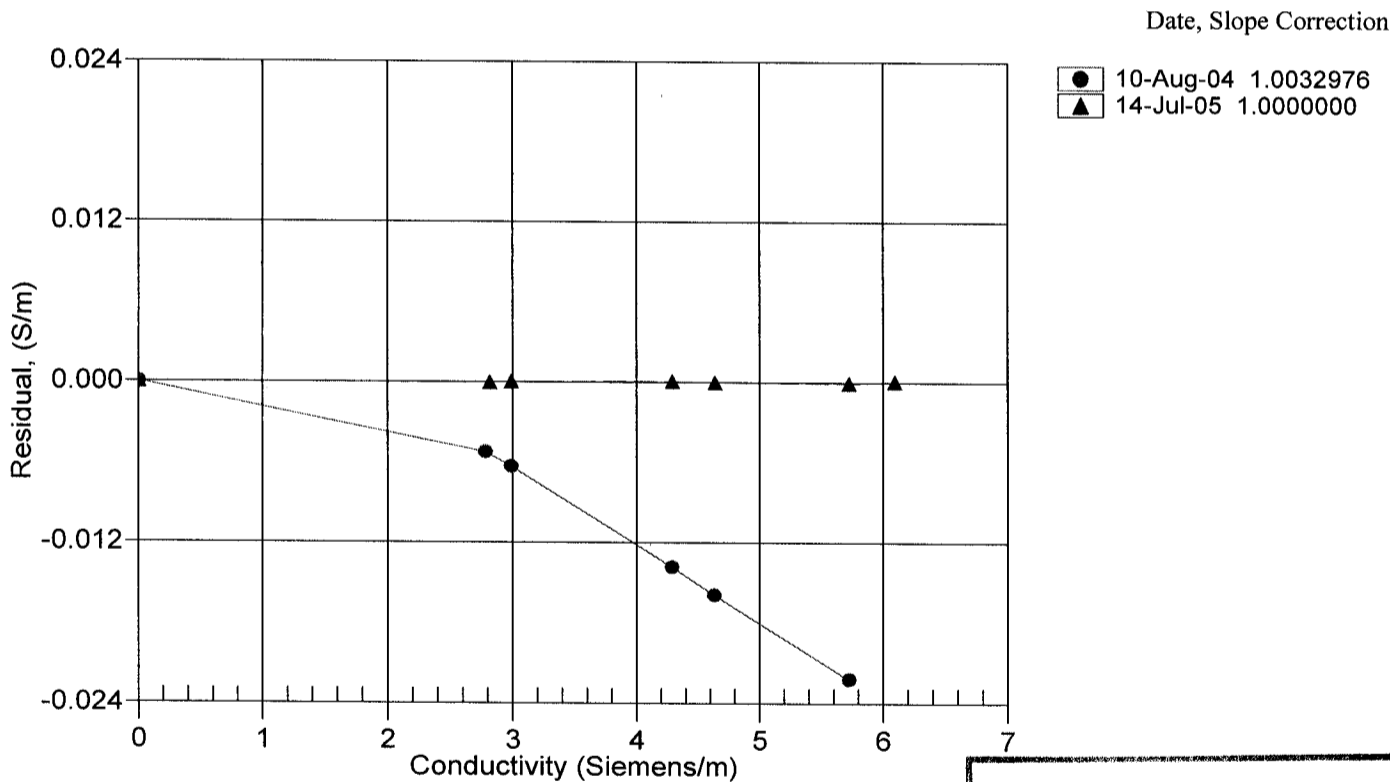
BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.71947	0.00000	0.00000
-1.0000	34.9555	2.81474	5.17472	2.81469	-0.00005
1.0000	34.9558	2.98675	5.28825	2.98679	0.00004
15.0000	34.9559	4.28692	6.07793	4.28697	0.00005
18.5000	34.9550	4.63478	6.27228	4.63476	-0.00001
29.0000	34.9514	5.72195	6.84399	5.72187	-0.00008
32.5000	34.9437	6.09569	7.02973	6.09574	0.00005

Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

Conductivity =  $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$  Siemens/meter

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

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients



**POST CRUISE  
CALIBRATION**