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SENSOR SERIAL NUMBER: 1387  
CALIBRATION DATE: 17-Aug-06

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

**GHIJ COEFFICIENTS**

g = -4.22719950e+000  
h = 4.81416811e-001  
i = -1.39292066e-004  
j = 3.06166926e-005  
CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

**ABCDM COEFFICIENTS**

a = 1.01530662e-005  
b = 4.81039929e-001  
c = -4.22636588e+000  
d = -8.94375804e-005  
m = 4.3  
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	2.96368	0.00000	0.00000
-1.0002	34.7866	2.80239	8.17713	2.80238	-0.00001
1.0373	34.7870	2.97693	8.39485	2.97695	0.00002
14.9998	34.7878	4.26847	9.85527	4.26845	-0.00002
18.4999	34.7879	4.61500	10.21108	4.61500	0.00001
28.9999	34.7872	5.69808	11.24929	5.69810	0.00002
32.4999	34.7841	6.07100	11.58469	6.07098	-0.00002

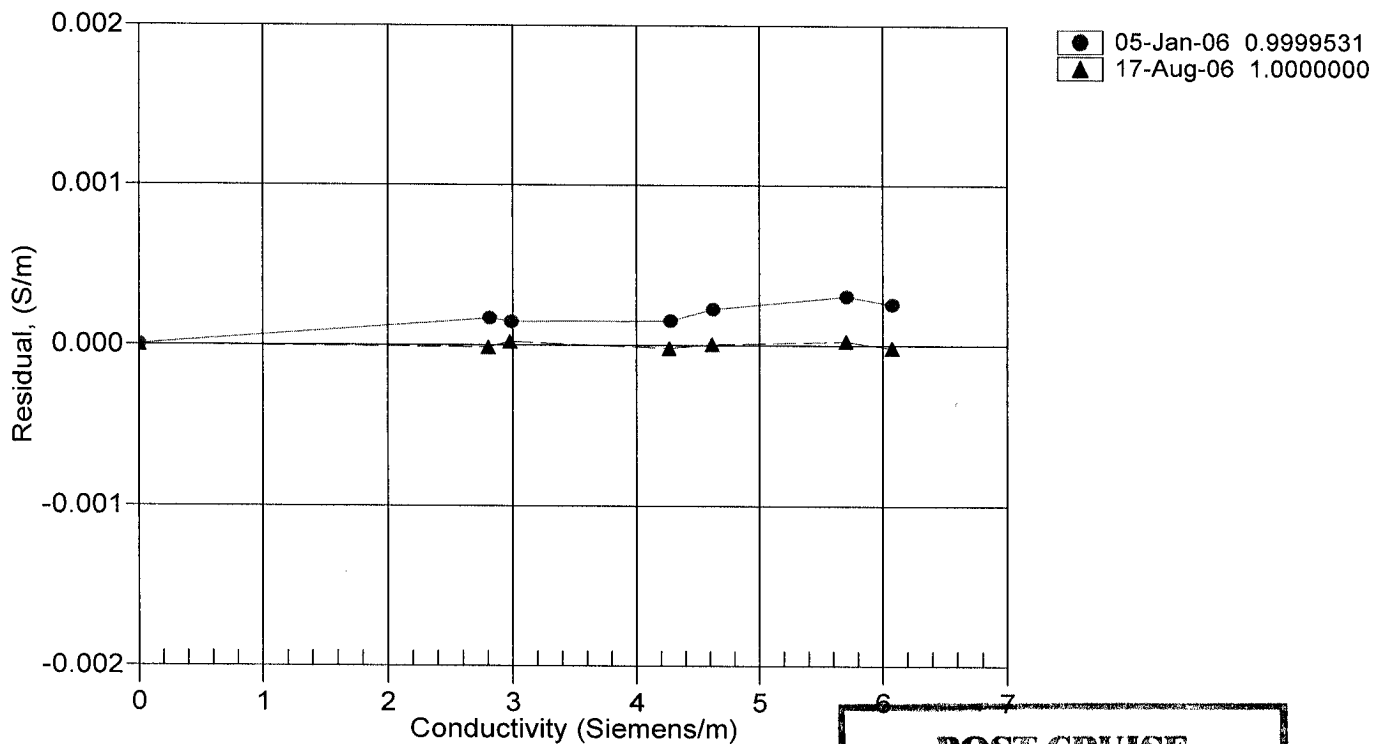
Conductivity =  $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$  Siemens/meter

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

Date, Slope Correction



**POST CRUISE  
CALIBRATION**