

~~Spare onboard~~
 In-Use
 1/11/12
 (Secondary)

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2603
 CALIBRATION DATE: 28-Jan-11

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

GHIJ COEFFICIENTS

g = -1.05003500e+001
 h = 1.52896768e+000
 i = -1.46317652e-003
 j = 2.03472021e-004
 CPcor = -9.5700e-008 (nominal)
 CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.82250993e-006
 b = 1.52552974e+000
 c = -1.04943289e+001
 d = -8.68408009e-005
 m = 5.3
 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	2.62270	0.00000	0.00000
-1.0000	34.8974	2.81050	5.02850	2.81049	-0.00001
1.0000	34.8975	2.98224	5.13905	2.98226	0.00002
15.0000	34.8979	4.28056	5.90766	4.28054	-0.00002
18.5000	34.8977	4.62800	6.09681	4.62798	-0.00002
29.0000	34.8953	5.71380	6.65304	5.71387	0.00007
32.5000	34.8881	6.08709	6.83363	6.08704	-0.00005

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

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

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

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

Date, Slope Correction

