

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0273
CALIBRATION DATE: 29-May-15

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

COEFFICIENTS:

g = -9.65021582e+000
h = 1.07635367e+000
i = -2.49499202e-003
j = 2.41287025e-004

CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	3.00169	0.00000	0.00000
1.0000	34.7320	2.96945	6.06361	2.96944	-0.00001
4.5000	34.7114	3.27580	6.29497	3.27581	0.00001
15.0000	34.6685	4.25540	6.98277	4.25539	-0.00001
18.5000	34.6596	4.59982	7.20878	4.59982	0.00000
24.0000	34.6497	5.15658	7.55953	5.15658	0.00000
29.0000	34.6450	5.67741	7.87320	5.67741	-0.00000
32.5000	34.6426	6.04912	8.08940	6.04908	-0.00004

$$f = \text{INST FREQ} / 1000.0$$

$$\text{Conductivity} = (g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p) \text{ Siemens / meter}$$

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

Residual = instrument conductivity - bath conductivity

