

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0136
CALIBRATION DATE: 25-Dec-15

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

COEFFICIENTS:

g = -9.81608332e+000
h = 1.08595035e+000
i = -1.47675403e-003
j = 1.94903130e-004

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

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (kHz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	3.01024	0.00000	0.00000
1.0000	34.7835	2.97343	6.03994	2.97343	0.00000
4.5000	34.7629	3.28018	6.26921	3.28018	-0.00000
15.0000	34.7192	4.26096	6.95098	4.26097	0.00001
18.5000	34.7098	4.60576	7.17499	4.60575	-0.00001
24.0000	34.6993	5.16314	7.52276	5.16314	0.00000
29.0000	34.6935	5.68447	7.83374	5.68447	0.00000
32.5000	34.6906	6.05655	8.04815	6.05654	-0.00000

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); δ = CTcor; ϵ = CPcor;

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

