

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0265
CALIBRATION DATE: 02-Jul-16

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

COEFFICIENTS:

g = -9.75186169e+000
h = 1.11786210e+000
i = -7.21325399e-004
j = 1.30692366e-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	2.95490	0.00000	0.00000
1.0000	34.6085	2.95989	5.93227	2.95990	0.00001
4.5000	34.5882	3.26532	6.15768	3.26531	-0.00001
15.0000	34.5455	4.24189	6.82812	4.24188	-0.00001
18.5000	34.5365	4.58524	7.04851	4.58524	-0.00000
24.0000	34.5270	5.14033	7.39072	5.14035	0.00002
29.0000	34.5223	5.65956	7.69680	5.65955	-0.00001
32.5000	34.5199	6.03012	7.90794	6.03021	0.00009

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

