

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0118
CALIBRATION DATE: 12-Jul-16

Glider Payload CTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -7.292498e-005
a1 = 3.051258e-004
a2 = -4.511647e-006
a3 = 2.014103e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	570414.0	1.0000	0.0000
4.4999	487079.1	4.4999	-0.0000
15.0000	309335.7	15.0000	0.0000
18.5000	267576.7	18.4999	-0.0001
24.0000	214336.4	24.0001	0.0001
29.0000	176276.5	28.9998	-0.0002
32.5000	154248.7	32.5001	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/\{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

