

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0173
CALIBRATION DATE: 07-Feb-16

Glider Payload CTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -8.498388e-005
a1 = 3.023185e-004
a2 = -4.146181e-006
a3 = 1.924635e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	581977.0	0.9999	-0.0001
4.5000	497561.0	4.5002	0.0002
15.0000	317137.3	14.9998	-0.0002
18.5000	274637.3	18.5000	0.0000
24.0000	220380.5	24.0002	0.0002
29.0000	181528.5	28.9999	-0.0001
32.5000	159013.5	32.5000	-0.0000

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

