

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0118

CALIBRATION DATE: 24-May-14

Glider Payload CTD TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.536201e-005

a1 = 2.963215e-004

a2 = -3.824696e-006

a3 = 1.835664e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	570412.6	1.0000	0.0000
4.5000	487077.4	4.5000	-0.0000
15.0000	309341.8	15.0000	-0.0000
18.5000	267580.7	18.5001	0.0001
23.9999	214341.8	24.0000	0.0001
29.0000	176279.2	28.9998	-0.0002
32.5000	154248.5	32.5001	0.0001

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

Residual = instrument temperature - bath temperature

n = instrument output

