

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0516
CALIBRATION DATE: 27-May-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 2.271688e-005
a1 = 2.719936e-004
a2 = -2.295560e-006
a3 = 1.545225e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	793319.6	-1.5001	0.0000
0.9999	707915.0	0.9999	-0.0000
4.4999	605309.3	4.4998	-0.0001
7.9999	519267.8	7.9999	0.0000
11.4999	446875.8	11.4999	0.0000
14.9999	385764.9	15.0000	0.0001
18.4999	334011.7	18.4999	0.0000
21.9999	290046.9	21.9999	-0.0000
25.4999	252582.8	25.4999	-0.0000
28.9999	220564.9	28.9998	-0.0001
32.4999	193121.4	32.5000	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

