

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0207
 CALIBRATION DATE: 14-May-09

SBE 38 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -3.752028e-005
 a1 = 2.768471e-004
 a2 = -2.357103e-006
 a3 = 1.558644e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50010	799442.3	-1.50008	0.00002
0.99990	714463.8	0.99991	0.00001
4.49990	612198.6	4.49983	-0.00007
7.99990	526273.6	7.99985	-0.00005
11.49990	453834.4	11.49996	0.00006
14.99990	392568.4	14.99990	0.00000
18.49980	340583.7	18.49986	0.00006
21.99990	296336.1	21.99995	0.00005
25.49990	258564.2	25.49981	-0.00009
28.99990	226222.3	28.99979	-0.00011
32.49990	198450.0	32.49999	0.00009

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

