

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0064
CALIBRATION DATE: 29-May-11p

SBE 35 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 5.14162470e-003
a1 = -1.44764187e-003
a2 = 2.12930652e-004
a3 = -1.18114485e-005
a4 = 2.50615076e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT (n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.499950	759475.19	-1.499936	0.000014
1.000030	681477.15	1.000007	-0.000023
4.500040	586871.02	4.500029	-0.000011
8.000070	506739.20	8.000091	0.000021
11.500130	438713.01	11.500139	0.000009
15.000140	380827.37	15.000173	0.000033
18.500110	331453.40	18.500058	-0.000052
22.000060	289233.00	22.000036	-0.000024
25.500000	253040.93	25.500013	0.000013
28.999990	221938.35	29.000035	0.000045
32.500060	195142.90	32.500035	-0.000025

Temperature ITS-90 = $1/[a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)] + a_4[\ln^4(n)]] - 273.15$ (°C)

Residual = instrument temperature - bath temperature

