Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1069
CALIBRATION DATE: 01-Jul-15

SBE 63 OXYGEN TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

TA0 = 7.006421e-004 TA2 = 5.636693e-007 TA1 = 2.518783e-004 TA3 = 1.066324e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT(V)	(° C)	(° C)
1.9999	1.11811	2.0000	0.00011
2.0000	1.11811	2.0000	0.00001
2.0000	1.11811	2.0000	0.00001
2.0000	1.11811	2.0000	0.00001
6.0000	0.99399	5.9999	-0.00008
6.0000	0.99399	5.9999	-0.00008
6.0000	0.99399	5.9999	-0.00008
6.0000	0.99399	5.9999	-0.00008
12.0000	0.82825	12.0002	0.00018
12.0000	0.82825	12.0002	0.00018
12.0000	0.82825	12.0002	0.00018
12.0001	0.82826	11.9998	-0.00031
20.0000	0.64473	19.9999	-0.00006
20.0000	0.64473	19.9999	-0.00006
20.0000	0.64472	20.0004	0.00043
20.0001	0.64473	19.9999	-0.00016
25.9999	0.53282	26.0001	0.00022
25.9999	0.53282	26.0001	0.00022
25.9999	0.53283	25.9995	-0.00037
26.0000	0.53283	25.9995	-0.00047
30.0000	0.46905	30.0006	0.00058
30.0000	0.46906	29.9999	-0.00009
30.0000	0.46906	29.9999	-0.00009
30.0001	0.46906	29.9999	-0.00019

V = Instrument Output (Volts)

L = ln (100000 * V / (3.3 - V))

Temperature ITS-90 (°C) = $1 / (TA0 + (TA1 * L) + (TA2 * L^2) + (TA3 * L^3)) - 273.15$

