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SENSOR SERIAL NUMBER: 1018
CALIBRATION DATE: 24-Feb-21

SBE 63 OXYGEN TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

TA0 = 7.133369e-004 TA2 = 1.052804e-006
TA1 = 2.472774e-004 TA3 = 8.933170e-008

BATH TEMP (° C)	INSTRUMENT OUTPUT(V)	INST TEMP (° C)	RESIDUAL (° C)
2.0000	1.12238	2.0000	0.00000
2.0000	1.12238	2.0000	0.00000
2.0001	1.12238	2.0000	-0.00010
2.0001	1.12237	2.0003	0.00021
5.9999	0.99799	5.9998	-0.00008
6.0000	0.99799	5.9998	-0.00018
6.0000	0.99799	5.9998	-0.00018
6.0001	0.99798	6.0002	0.00006
11.9999	0.83182	12.0000	0.00007
11.9999	0.83182	12.0000	0.00007
12.0000	0.83182	12.0000	-0.00003
12.0000	0.83181	12.0004	0.00036
20.0000	0.64772	20.0000	-0.00001
20.0001	0.64772	20.0000	-0.00011
20.0001	0.64772	20.0000	-0.00011
20.0002	0.64772	20.0000	-0.00021
25.9999	0.53541	26.0001	0.00016
26.0000	0.53541	26.0001	0.00006
26.0000	0.53541	26.0001	0.00006
26.0000	0.53541	26.0001	0.00006
30.0000	0.47140	30.0000	-0.00003
30.0000	0.47140	30.0000	-0.00003
30.0000	0.47140	30.0000	-0.00003
30.0000	0.47140	30.0000	-0.00003

V = Instrument Output (Volts)

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

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

Residual (°C) = instrument temperature - bath temperature

Date, Offset (mdeg C)

● 24-Feb-21 -0.00

