Sea-Bird Scientific 13431 NE 20th Street Bellevue, WA 98005 USA +1 425-643-9866 seabird@seabird.com www.seabird.com

SENSOR SERIAL NUMBER: 2318 CALIBRATION DATE: 28-Apr-19

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -4.415346e-004 a1 = 3.861291e-004 a2 = -1.205864e-005 a3 = 4.307487e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	765514.0	1.0000	0.0000
4.5000	655286.4	4.5000	-0.0000
15.0000	418473.6	15.0000	-0.0000
18.5000	362455.7	18.5001	0.0001
24.0000	290816.1	24.0000	-0.0000
29.0000	239433.8	28.9999	-0.0001
32.5000	209633.9	32.5000	0.0000

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$

Residual ($^{\circ}$ C) = instrument temperature - bath temperature

