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

SENSOR SERIAL NUMBER: 1166 SBE 39 TEMPERATURE CALIBRATION DATA CALIBRATION DATE: 11-Jan-25 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.083728e-004 a1 = 3.121005e-004 a2 = -5.052792e-006 a3 = 2.201879e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	878951.8	-1.4998	0.0002
1.0000	785050.0	0.9999	-0.0001
4.5000	672119.2	4.4996	-0.0004
8.0000	577305.3	7.9997	-0.0003
11.5000	497431.9	11.5003	0.0003
15.0000	429941.8	15.0006	0.0006
18.5000	372739.3	18.5001	0.0001
22.0000	324091.7	21.9997	-0.0003
25.5000	282591.5	25.4997	-0.0003
29.0000	247086.9	28.9998	-0.0002
32.5000	216621.8	32.5004	0.0004

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

