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

SENSOR SERIAL NUMBER: 1636 CALIBRATION DATE: 14-Jan-25 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.998746e-004 a1 = 3.068314e-004 a2 = -4.409211e-006 a3 = 2.054871e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
-1.5000	824569.3	-1.4999	0.0001
1.0000	737461.0	1.0000	-0.0000
4.5000	632544.5	4.4999	-0.0001
8.0000	544311.6	8.0000	-0.0000
11.5000	469862.0	11.5001	0.0001
15.0000	406839.6	15.0001	0.0001
18.5000	353320.5	18.5000	0.0000
22.0000	307730.3	22.0000	0.0000
25.5000	268778.2	25.4999	-0.0001
29.0001	235398.9	29.0000	-0.0001
32.5000	206713.5	32.5001	0.0001

n = Instrument Output (counts)

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

Residual (°C) = instrument temperature - bath temperature

