Sea-Bird Electronics, Inc.
13431 NE 20th Street, Bellevue, WA 98005-2010 USA
Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 4475   SBE 19plus V2 TEMPERATURE CALIBRATION DATA
CALIBRATION DATE: 09-Mar-16   ITS-90 TEMPERATURE SCALE

COEFFICIENTS:
a0 = 1.231679e-003
a1 = 2.625697e-004
a2 = -1.890234e-007
a3 = 1.542035e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	675144.889	1.0000	0.0000
4.5000	601930.644	4.4999	-0.0001
15.0001	417997.356	15.0002	0.0001
18.4999	368087.000	18.4999	0.0000
24.0000	299977.133	23.9999	-0.0001
29.0000	247872.489	29.0000	0.0000
32.5000	216297.333	32.5000	-0.0000

n = Instrument Output (counts)

MV = (n - 524288) / 1.6e+007

R = (MV * 2.900e+009 + 1.024e+008) / (2.048e+004 - MV * 2.0e+005)

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

Residual (°C) = instrument temperature - bath temperature

Date, Offset (mdeg C)
● 18-Feb-15   -0.88
▲ 09-Mar-16   0.00

POST CRUISE CALIBRATION