



Sea-Bird Scientific  
13431 NE 20<sup>th</sup> Street  
Bellevue, WA 98005  
USA

+1 425-643-9866  
seabird@seabird.com  
www.seabird.com

SENSOR SERIAL NUMBER: 0416  
CALIBRATION DATE: 12-May-21

Glider APL TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

$g = 4.42189308e-003$   
 $h = 6.40115519e-004$   
 $i = 2.63787337e-005$   
 $j = 3.20937725e-006$   
 $f0 = 1000.0$

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3544.437	0.9999	-0.00005
4.4999	3832.902	4.5000	0.00009
15.0000	4799.181	14.9999	-0.00011
18.5000	5156.313	18.5000	0.00003
24.0000	5754.326	24.0000	0.00004
29.0000	6338.041	29.0000	0.00003
32.5000	6769.871	32.5000	-0.00003

$f$  = Instrument Output (Hz)

Temperature ITS-90 (°C) =  $1 / \{g + h[\ln(f0 / f)] + i[\ln^2(f0 / f)] + j[\ln^3(f0 / f)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

