



SEA-BIRD
SCIENTIFIC

Sea-Bird Scientific
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SENSOR SERIAL NUMBER: 0191
CALIBRATION DATE: 23-Feb-22

Glider APL TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

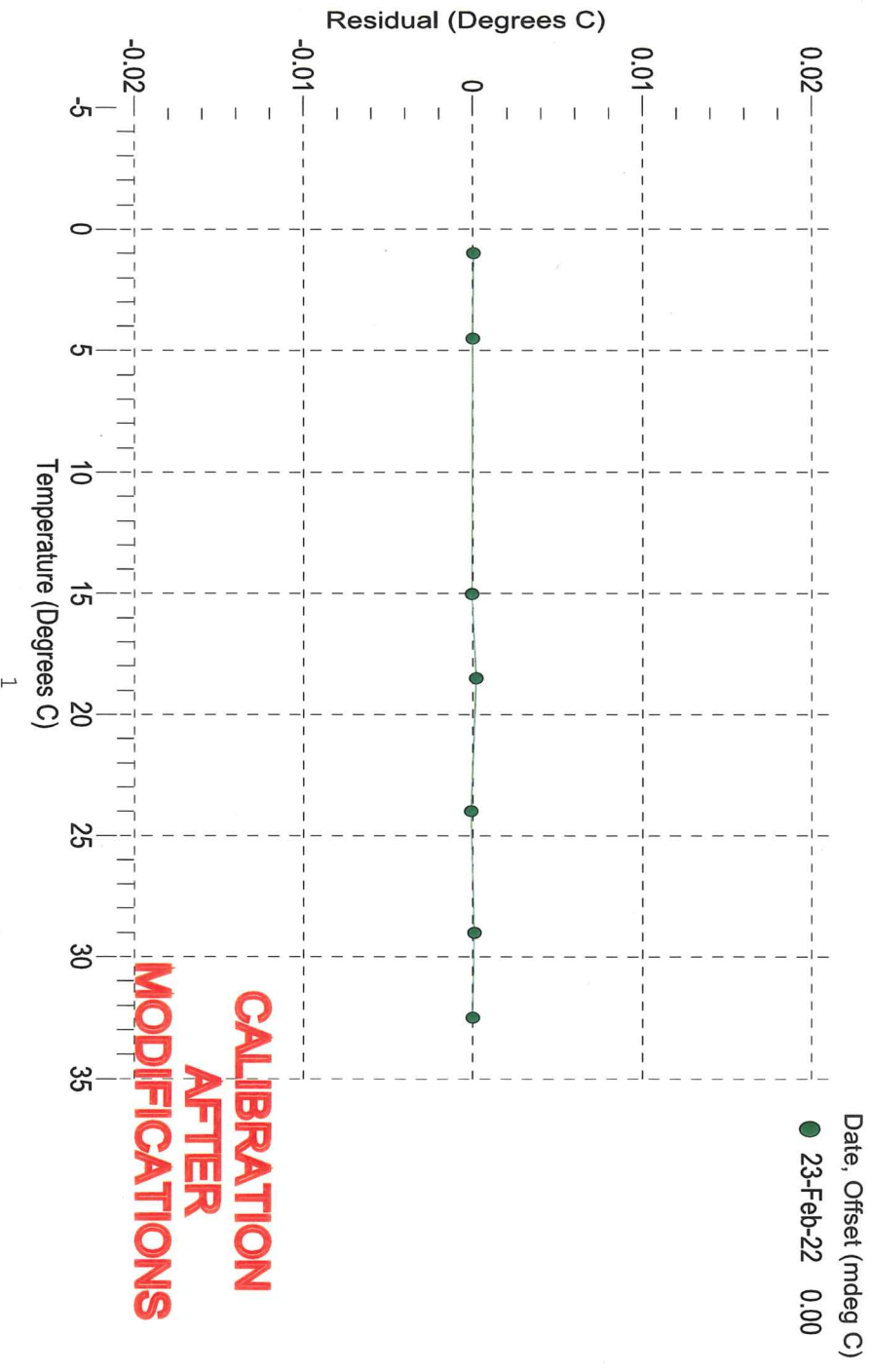
g = 4.39654532e-003
h = 6.41967860e-004
i = 2.73391635e-005
j = 3.45802182e-006
f0 = 1000.0

BATH TEMP (°C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (°C)	RESIDUAL (°C)
1.0000	3387.869	1.0000	0.00000
4.4997	3662.645	4.4997	-0.00000
15.0000	4582.900	14.9999	-0.00007
18.5000	4922.912	18.5002	0.00015
24.0001	5492.100	24.0000	-0.00013
29.0000	6047.564	29.0001	0.00007
32.5000	6458.391	32.5000	-0.00002

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





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SENSOR SERIAL NUMBER: 0191
CALIBRATION DATE: 08-Feb-22

Glider APL TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

$g = 4.41235335e-003$
 $h = 6.47021163e-004$
 $i = 2.65743156e-005$
 $j = 3.25885666e-006$
 $f0 = 1000.0$

BATH TEMP (°C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (°C)	RESIDUAL (°C)
0.9998	3438.570	0.9997	-0.00011
4.4999	3714.780	4.5001	0.00020
15.0000	4638.078	14.9999	-0.00012
18.5000	4978.694	18.4999	-0.00008
24.0000	5548.430	24.0001	0.00007
28.9999	6103.820	29.0001	0.00018
32.5000	6514.263	32.4999	-0.00014

$f = \text{Instrument Output (Hz)}$

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

