Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

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

SENSOR SERIAL NUMBER: 0220
CALIBRATION DATE: 14-Oct-17

Glider APL CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

```
g =  -9.69801256e+000
h =   1.10687862e+000
i =  -1.90180355e-003
j =   2.24172769e-004
```

```
CPcor = -9.5700e-008 (nominal)
CTcor =  3.2500e-006 (nominal)
```

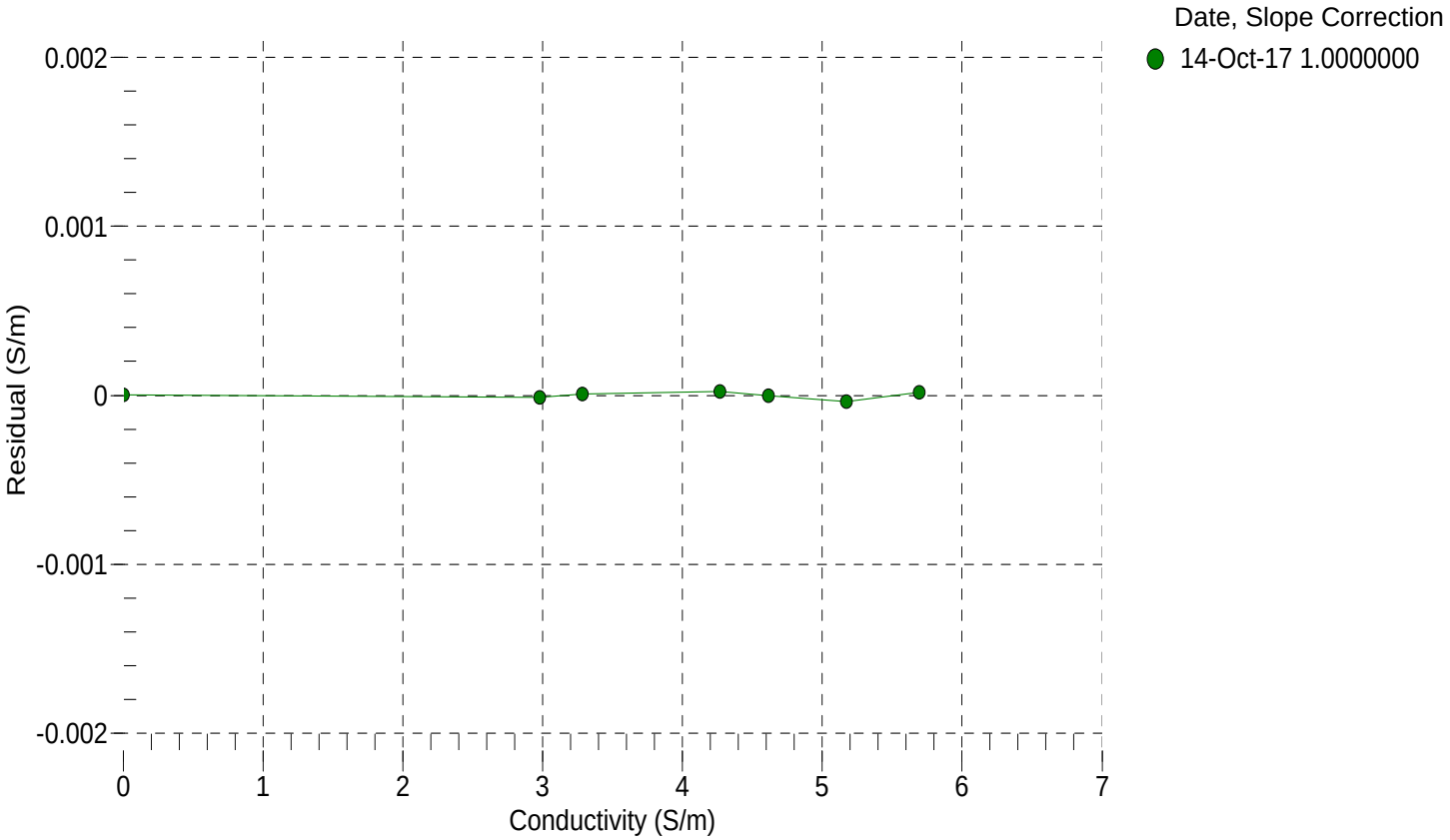
BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (kHz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2.96492	0.00000	0.00000
1.0000	34.8532	2.97882	5.98180	2.97880	-0.00001
4.5000	34.8321	3.28607	6.20967	3.28608	0.00001
15.0000	34.7893	4.26865	6.88724	4.26868	0.00002
18.5000	34.7807	4.61416	7.10987	4.61416	-0.00000
24.0000	34.7715	5.17270	7.45543	5.17266	-0.00004
29.0000	34.7661	5.69502	7.76440	5.69504	0.00002
32.5000	34.7627	6.06770	7.97740	6.06784	0.00014

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); δ = CTcor; ε = CPcor;

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) /10 (1 + \delta * t + \varepsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity



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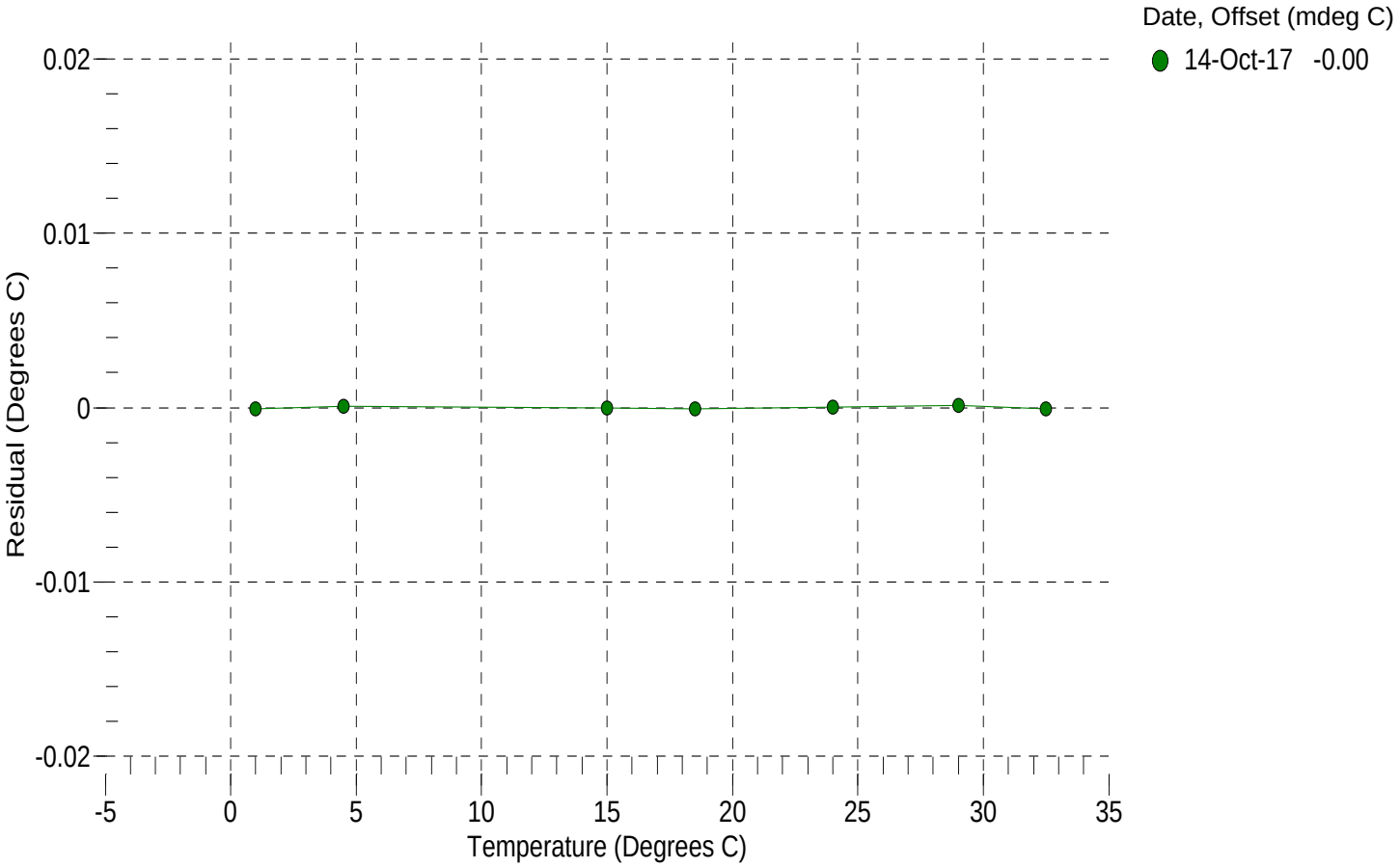
Glider APL TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

```
g =  4.39460844e-003
h =  6.36268496e-004
i =  2.59897373e-005
j =  3.18069764e-006
f0 =  1000.0
```

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3408.197	0.9999	-0.00005
4.5000	3686.521	4.5001	0.00010
15.0000	4619.374	15.0000	-0.00002
18.5000	4964.333	18.4999	-0.00008
24.0000	5542.224	24.0000	0.00002
29.0000	6106.547	29.0001	0.00014
32.5000	6524.143	32.4999	-0.00009

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