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

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

SENSOR SERIAL NUMBER: 0141
CALIBRATION DATE: 14-Feb-24

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

COEFFICIENTS:

```
g =  -1.00259394e+001
h =   1.15497614e+000
i =  -1.09989576e-003
j =   1.70943882e-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	2.94854	0.00000	0.00000
1.0000	34.6276	2.96137	5.85984	2.96135	-0.00002
4.5000	34.6081	3.26701	6.08106	3.26702	0.00001
15.0000	34.5659	4.24413	6.73910	4.24417	0.00004
18.5000	34.5566	4.58762	6.95540	4.58763	0.00001
24.0000	34.5459	5.14283	7.29122	5.14276	-0.00007
29.0000	34.5389	5.66197	7.59164	5.66201	0.00003
32.5001	34.5335	6.03224	7.79848	6.03197	-0.00026

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