

## WATER SALINITY TO GRADIENT CONVERSION

**NOTES:**

- Presented gradients below are *estimations* only.
  - Water densities derived from the website, <http://www.csgnetwork.com/h2odenscalc.html>, assuming constant conditions of 30°C and 101 kPa. \*
  - Water densities converted to water gradients using the equation  $\rho = hdg$ .
- \*Density effects from temperature and pressure with depth may be significant in some cases.

**TABLE**

Water Salinity (ppm)	Water Gradient (kPa/m)
4,000	9.79
10,000	9.83
20,000	9.90
30,000	9.98
40,000	10.05
50,000	10.12
60,000	10.20
70,000	10.27
80,000	10.35
90,000	10.43
100,000	10.50
110,000	10.58
120,000	10.66
130,000	10.74
140,000	10.82
150,000	10.90
160,000	10.98
170,000	11.06
180,000	11.14
190,000	11.22
200,000	11.31
210,000	11.39
220,000	11.48
230,000	11.56
240,000	11.65
250,000	11.74
300,000	12.19
350,000	12.65

**GRAPH**

