

GOS2023001003: Winkler titration

The results from the Winkler titration during cruise GOS2023001003 appears to “jump” from day to day (Fig. 1) – in a similar manner to the data obtained using the same system on cruise KB2023006003 a few weeks earlier. While the data suggests that the results from the O₂-sensor on the CTD are too low by about 15-25 $\mu\text{mol}/\text{kg}$, we decided to discard the Winkler data, and to submit only the raw, uncalibrated data to NMDC.

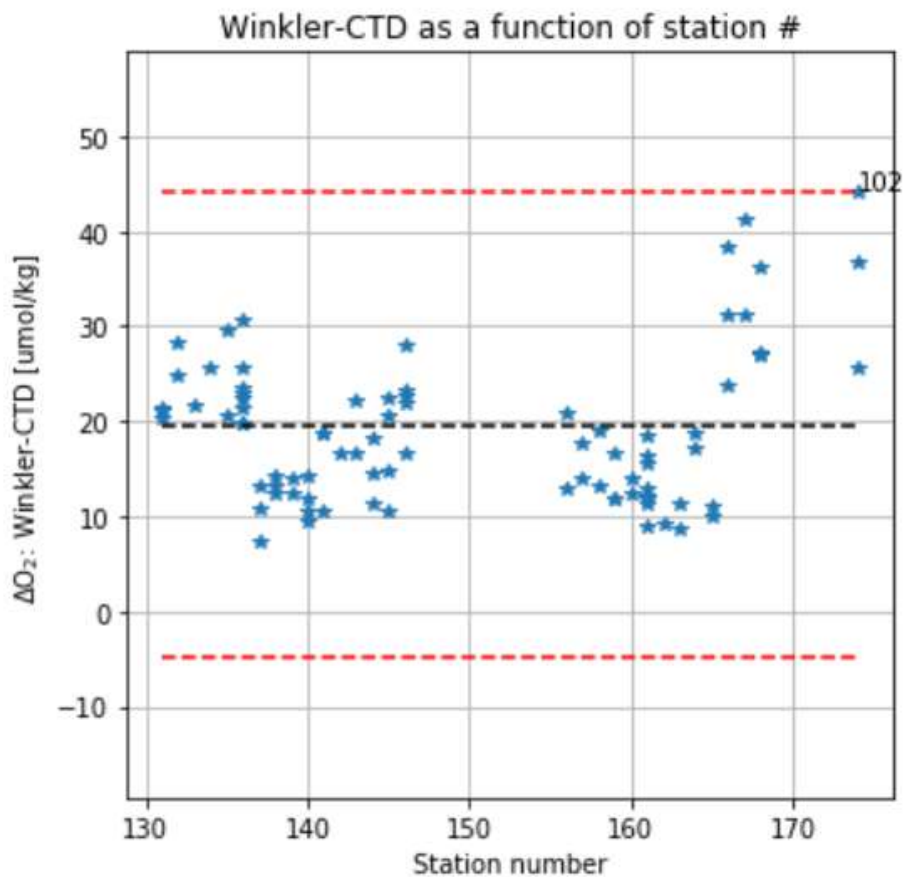


Figure 1: Difference between the O₂-concentration measured during Winkler titration and the value from the O₂-sensor on the CTD. The black dashed line show the mean difference and the red, dashed lines the mean \pm 2 x standard deviation.