Read me for supplement files

**This supplement includes the supplement word document titled**

Sims\_et\_al\_2022\_Kitikmeot pco2\_v1.4\_2023-02-22\_supplement.docx

This document includes supplementary text, tables and figures.

**Scripts for loading in and processing the underway data are titled found in Processing scripts directory**

Bergmann\_2016\_underway.m

Bergmann\_2017\_underway.m

Bergmann\_2018\_underway.m

Bergmann\_2019\_underway.m

**Scripts for plotting and synthesising the processed data are titled found in Plotting scripts directory**

plot\_Berg\_underway\_data.m

**The raw data files from instrument sensors for each year are provided in the following files are found in Raw data directory**

2016\_und.mat

2017\_und.mat

2018\_und.mat

2019\_und.mat

**The processed data files from instrument sensors for each year are provided in the following files in Processed data directory**

2016\_undpCO2\_proc.mat

2017\_undpCO2\_proc.mat

2018\_undpCO2\_proc.mat

2019\_und pCO2\_proc.mat

**The temperature calibration data for 2017 and 2018 found in Temperature calibration directory**

2017\_temp\_cal.mat

2017\_temp\_cal.mat

**The pCO2 and wind data from the tower can be found in EC tower directory**

pco2.mat

wind\_data\_rich.mat