

Supplementary material

Effect of climate change on crustose coralline algae at a temperate vent site, White Island, New Zealand

T. J. Brinkman^A and A. M. Smith^{A,B}

^ADepartment of Marine Science, University of Otago, PO Box 56, Dunedin 9054, New Zealand.

^BCorresponding author. Email: abby.smith@otago.ac.nz

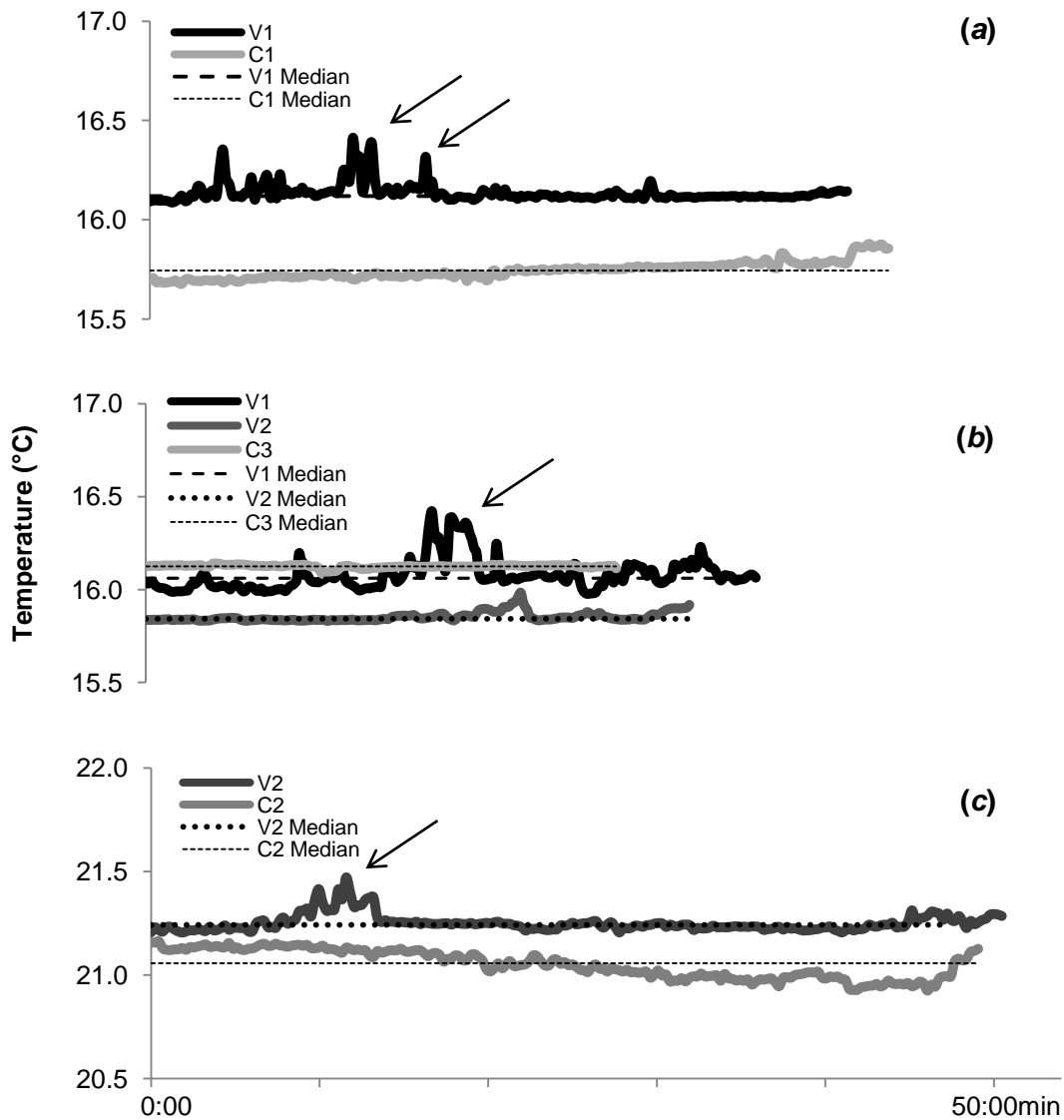


Fig. S1. Temperature (°C) profiles over time while SCUBA diving at vent sites (V1, V2) and control sites (C1, C2, C3) in winter (a), spring (b) and summer (c). Arrows indicate examples of CO₂ vents.

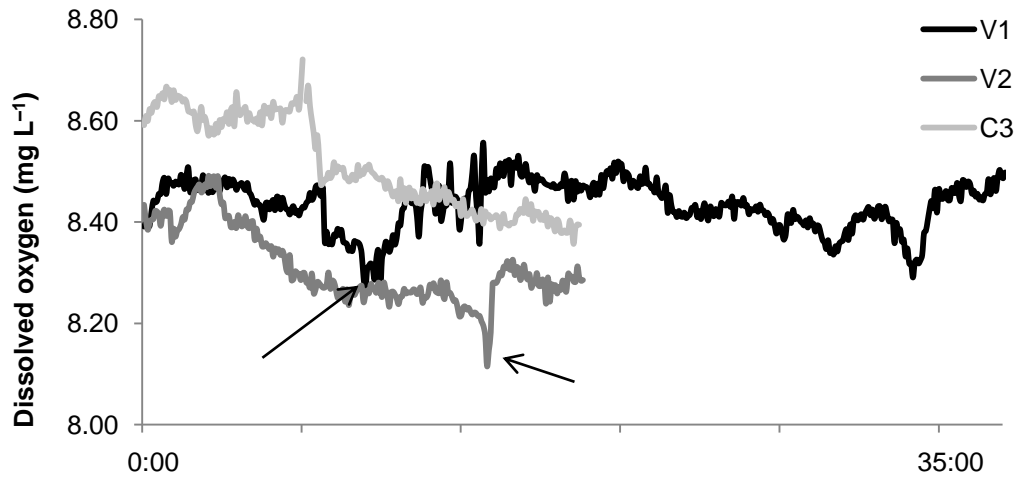


Fig. S2. Dissolved oxygen profiles during SCUBA diving at vent sites V1, V2 and control site C3 from spring sampling. Arrows indicate examples of CO₂ vents.

Table S1. Concentrations of dissolved elements in seawater from White Island sample sites taken during winter sampling

Sample name	24 Mg (ppm)	34 S (ppm)	39 K (ppm)	44 Ca (ppm)	56 Fe (ppm)	55 Mn (ppm)	85 Rb (ppm)	202 Hg (ppm)	66 Zn (ppm)	75 As (ppm)	111 Cd (ppm)
Open Oc 1	1439	1087	451	518	<0.15	<0.05	0.11	<0.006	<0.06	<0.008	<0.003
Open Oc 2	1436	1079	465	508	<0.15	<0.05	0.11	<0.006	<0.06	<0.008	<0.003
Open Oc 3	1447	1084	451	515	<0.15	<0.05	0.11	0.041	<0.06	<0.008	<0.003
V1 1	1495	1153	464	543	<0.15	<0.05	0.12	<0.006	<0.06	<0.008	<0.003
V1 2	1466	1164	459	524	<0.15	<0.05	0.11	0.22	<0.06	<0.008	<0.003
V1 3	1461	1162	475	534	<0.15	<0.05	0.12	<0.006	<0.06	<0.008	<0.003
C3 1	1452	1168	468	551	<0.15	<0.05	0.12	<0.006	<0.06	<0.008	<0.003
C3 2	1506	1154	479	533	<0.15	<0.05	0.12	<0.006	<0.06	<0.008	<0.003
C3 3	1489	1141	478	528	<0.15	<0.05	0.11	<0.006	<0.06	<0.008	<0.003
V2 1	1486	1168	479	528	<0.15	<0.05	0.12	<0.006	<0.06	<0.008	<0.003
V2 2	1464	1149	479	532	<0.15	<0.05	0.11	<0.006	<0.06	<0.008	<0.003
V2 3	1492	1173	473	538	<0.15	<0.05	0.12	<0.006	<0.06	<0.008	<0.003