



Local scale physiological condition declines as the canopy ages, showing a commensurate increase in frond loss rate. The non-linear relationship between canopy age and Chl:C across all three image dates in 2015 for the large kelp forest in Fig. 1 (black curve; grey shaded area represents 2x standard error). The proportional frond survivorship (blue curve) and the loss rate of fronds (red curve) across three kelp forests in the SBC from field data.