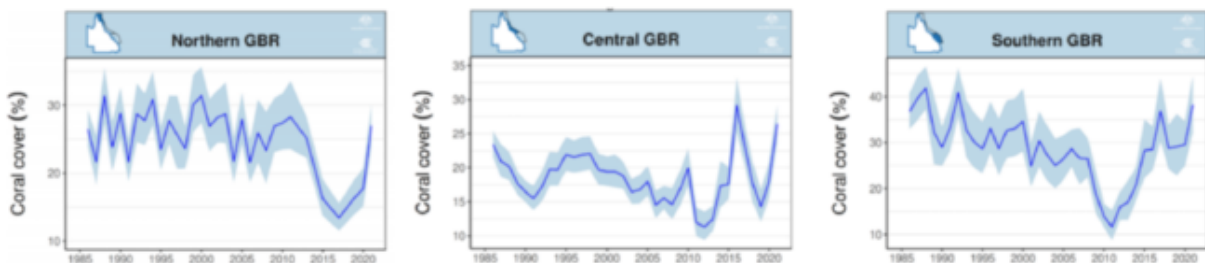


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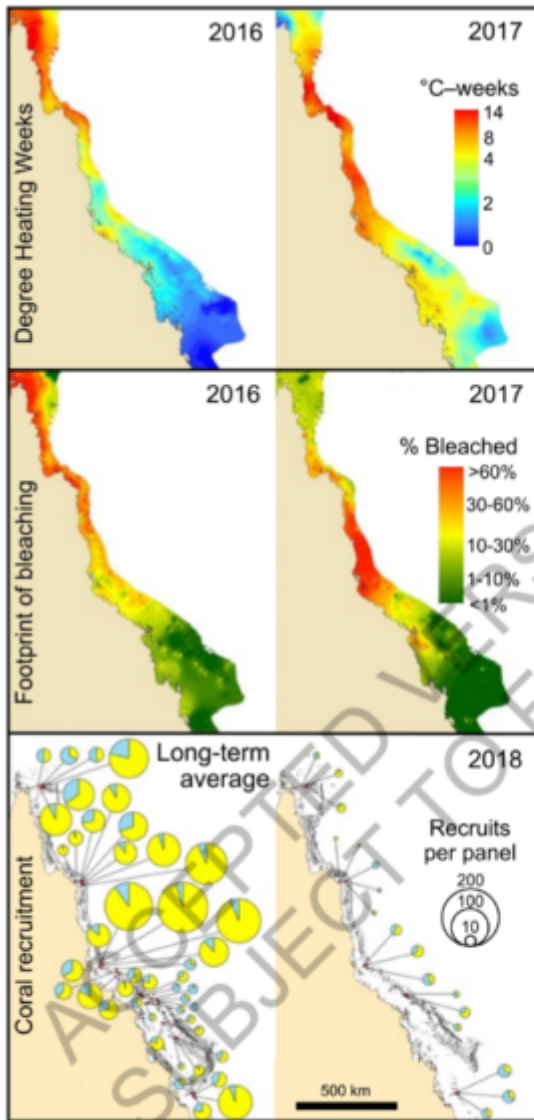


Figure Box 11.2.1: Top panels show spatial patterns in heat exposure along the Great Barrier Reef in 2016 (left) and 2017 (right), measured from satellites as Degree Heating Weeks (DHW, °C-weeks). Middle panels show the geographic footprint of recurrent coral bleaching in 2016 (left) and again in 2017 (right), measured by aerial assessments of individual reefs (adapted from (Hughes et al., 2019c)). Bottom panels display the density of coral recruits (mean per recruitment panel on each reef), measured over three decades, from 1996 to 2016 ($n = 47$ reefs, 1,784 panels) (left), compared to the density of coral recruits in 2018 after the mass mortality of corals in 2016 and 2017 due to the back-to-back bleaching events ($n = 17$ reefs, 977 panels) (right). The area of each circle is scaled to the overall recruit density of spawners and brooders combined. Yellow and blue indicate the proportion of spawners and brooders, respectively (from (Hughes et al., 2019b)).

?3

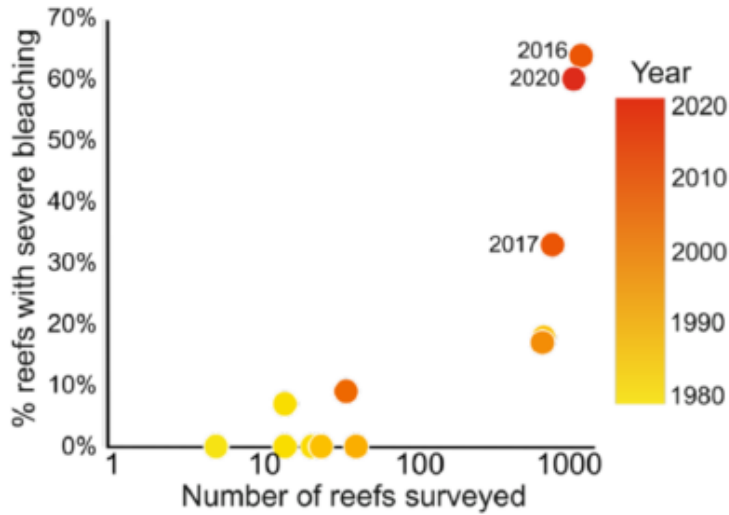


Figure Box 11.2.2: Variation in the severity of mass-bleaching episodes recorded on Australia’s Great Barrier Reef over the last four decades (1980–2020). The overall number of reefs surveyed was substantially higher in 1998, 2016, 2017 and 2020 when aerial surveys were undertaken, whereas the severity of other more localised bleaching episodes was documented with in-water surveys (adapted from (Pratchett et al., 2021). Extent of bleaching in 2020 was similar in severity to 2016, but more geographically widespread and included southern reefs.

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