

A note to follow up on the query regarding the potential movement of Centro into South Australian waters. I have sought the following comments from our Task Force (cc'd in on this email).

At the moment, the ocean currents mean that larval dispersal of Centro to SA is highly unlikely... but there are predictions of changing ocean currents, and this is why people are starting to talk about possible SA colonisation.

Centro has been a topic of discussion within the ASFB Fisheries Management Committee, which comprises fishery manager reps from every state and NZ – the only knowledge and concern in that forum has come from Tas, Vic, and NSW. There aren't any public logs of it in SA on Redmap either.

A few helpful resources:

- Huggett et al 2005 and Mos et al 2020 (attached) gives estimates of Centro larval duration that could be used in conjunction with predicted ocean current changes to model larval dispersal of Centro.
- [SeaMap Australia](#) shows rocky reef habitat (i.e. suitable Centro habitat in SA) that could be used to model high-risk areas of SA.
- RedMap, Atlas of Living Australia, and iNaturalist can all be used to keep track of any potential sightings of Centro in SA.

Of interest regarding the range extension of Centro ... There is already occurring spread of Centro into New Zealand waters, and this is predicted to increase. One of our engagement meetings discussed that the Aboriginal communities are concerned about the impact of this expansion on their across the water cousins.

- [Frontiers | Emergence of the subtropical sea urchin *Centrostephanus rodgersii* as a threat to kelp forest ecosystems in northern New Zealand \(frontiersin.org\)](#)

Happy to seek further info if required.

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