

# Project Manta

## East Australian Current (EAC) region Oceanographic conditions report

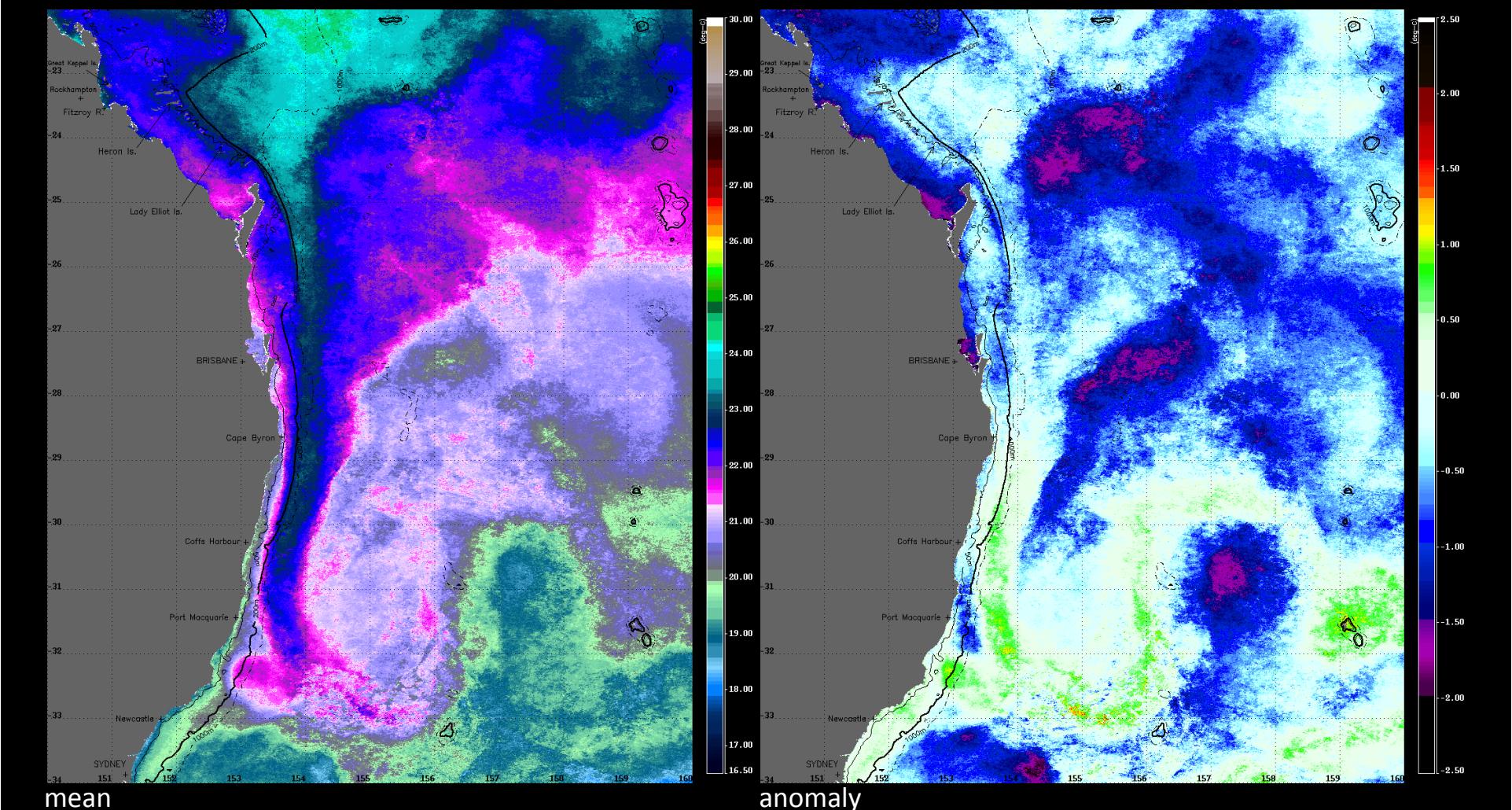
October 2011

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Supervised by Scarla Weeks

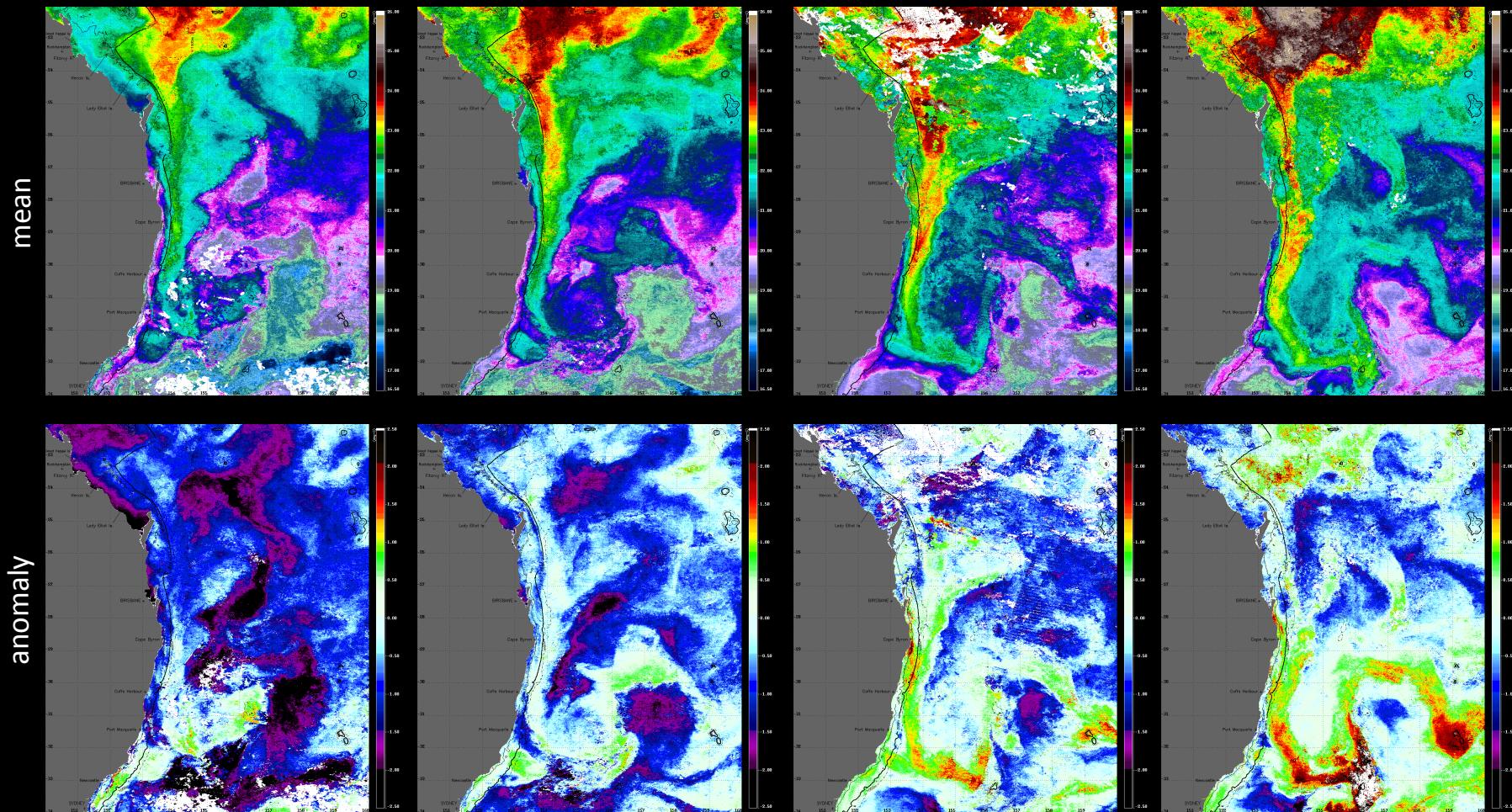
UQ-GPEM Biophysical Oceanography Group

# EAC Monthly MODIS SST (D+N): October 2011



- Negative SST anomalies throughout most of the region, intense along the inner shelf (northern portion) and in offshore areas.
- Weak negative SST anomalies in the Capricorn Eddy area and along the path of the EAC, progressing to weak positive anomalies south of 30°S corresponding to the EAC return current and associated meanders

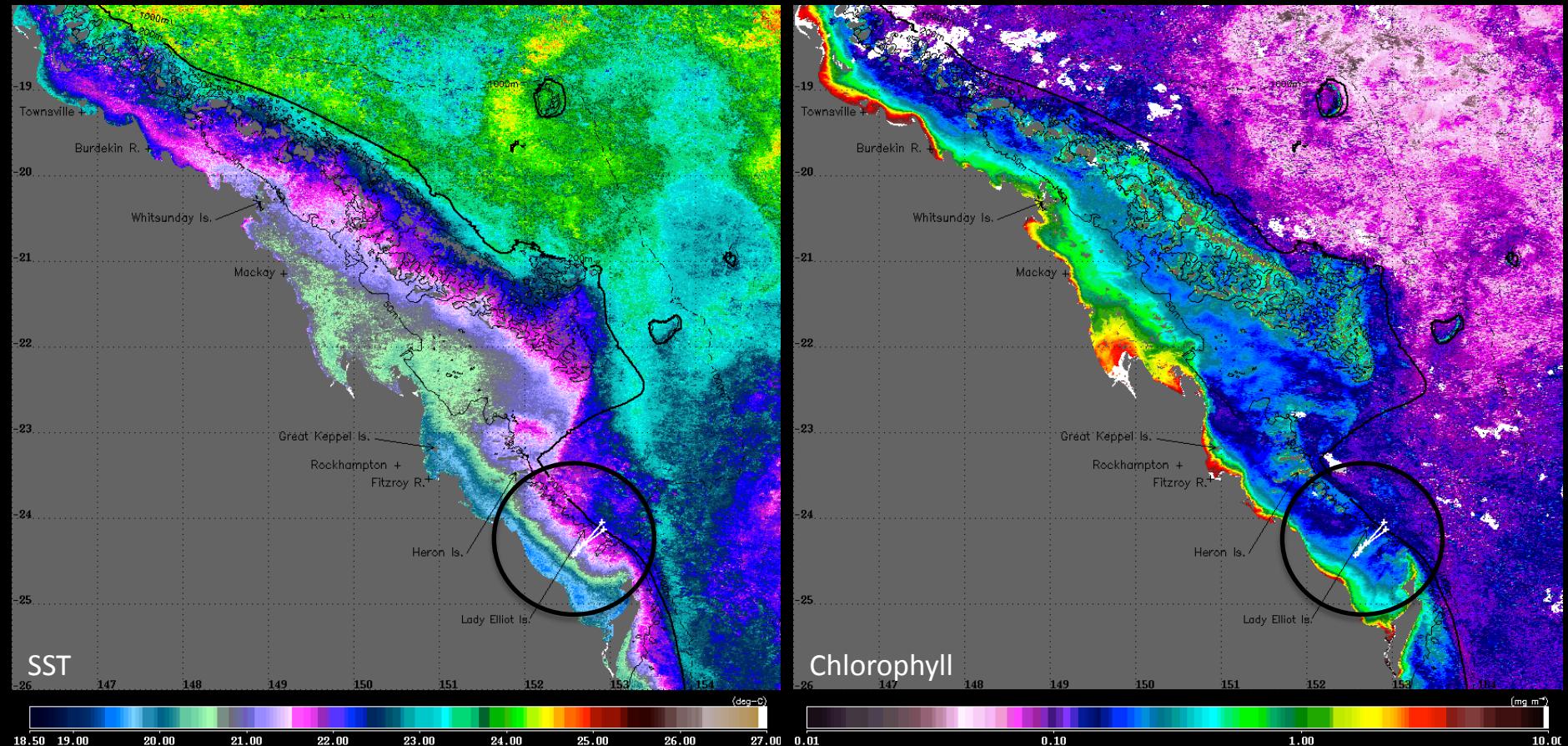
# EAC Weekly MODIS SST (D+N): starting from 1-7 October 2011



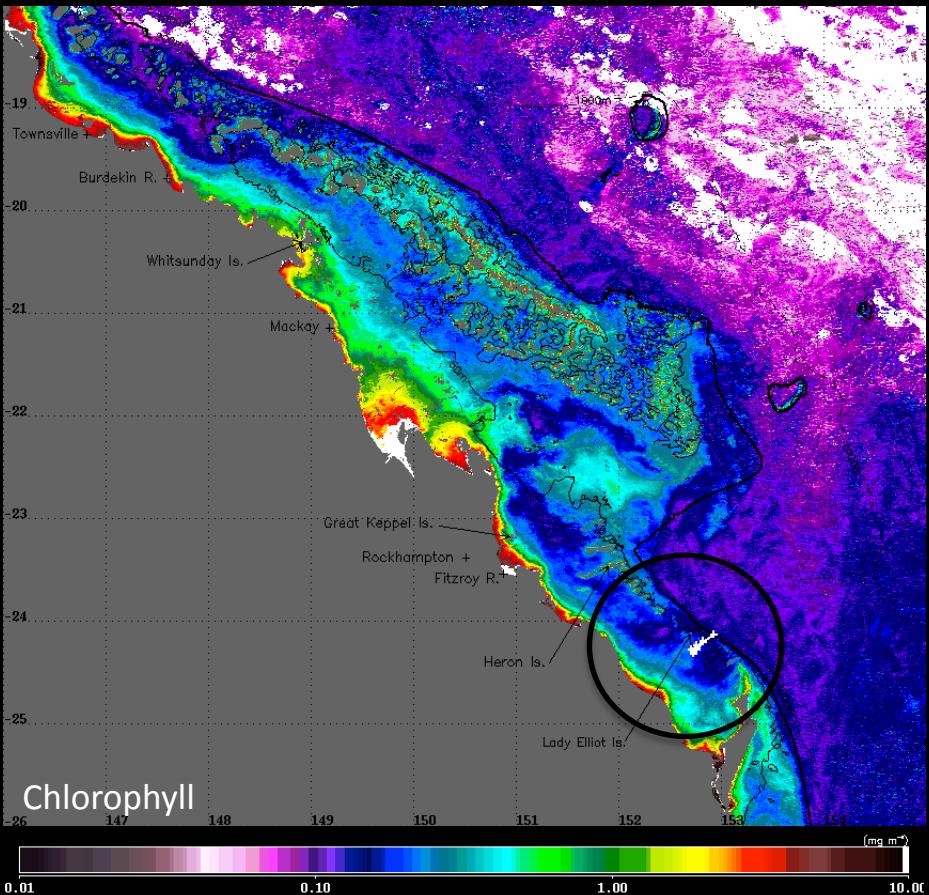
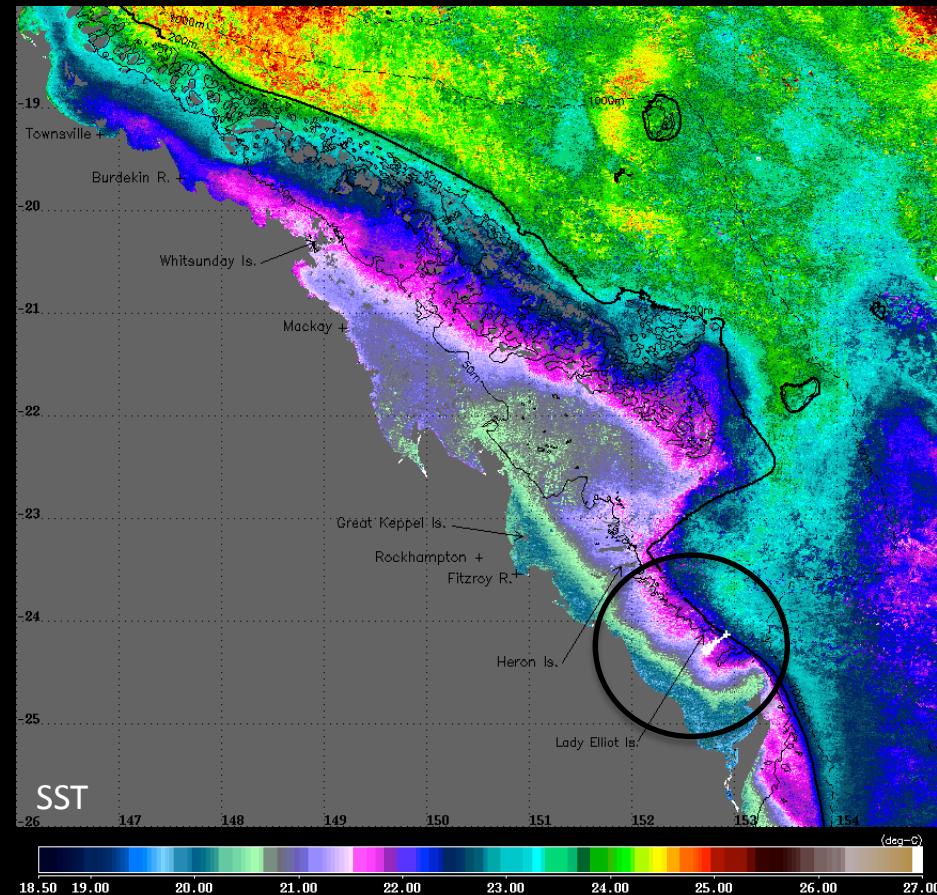
- Note: SST scale adjusted for October
- Weekly images showing the progression and intensification of the EAC with a more defined core than in the previous month
- Less active Capricorn Eddy relative to September 2011
- Strong negative SST anomalies weaken during the course of the month
- Pronounced intensification of the core EAC from 28°S, as the associated return current and meanders become more positively anomalous towards the end of the month

- Following are a series of weekly SST and chlorophyll-a images from 1 Sep -19 Oct 2011 with associated track overlays for Tag 66705 (Tash) – recently recovered in Agnes Waters
- Overall, Tash's movements were very localised with the animal consistently moving between the shelf edge and the inshore reefs just south of LEI, coincident with intrusions of EAC waters and a sharp SST front (21-22°C)

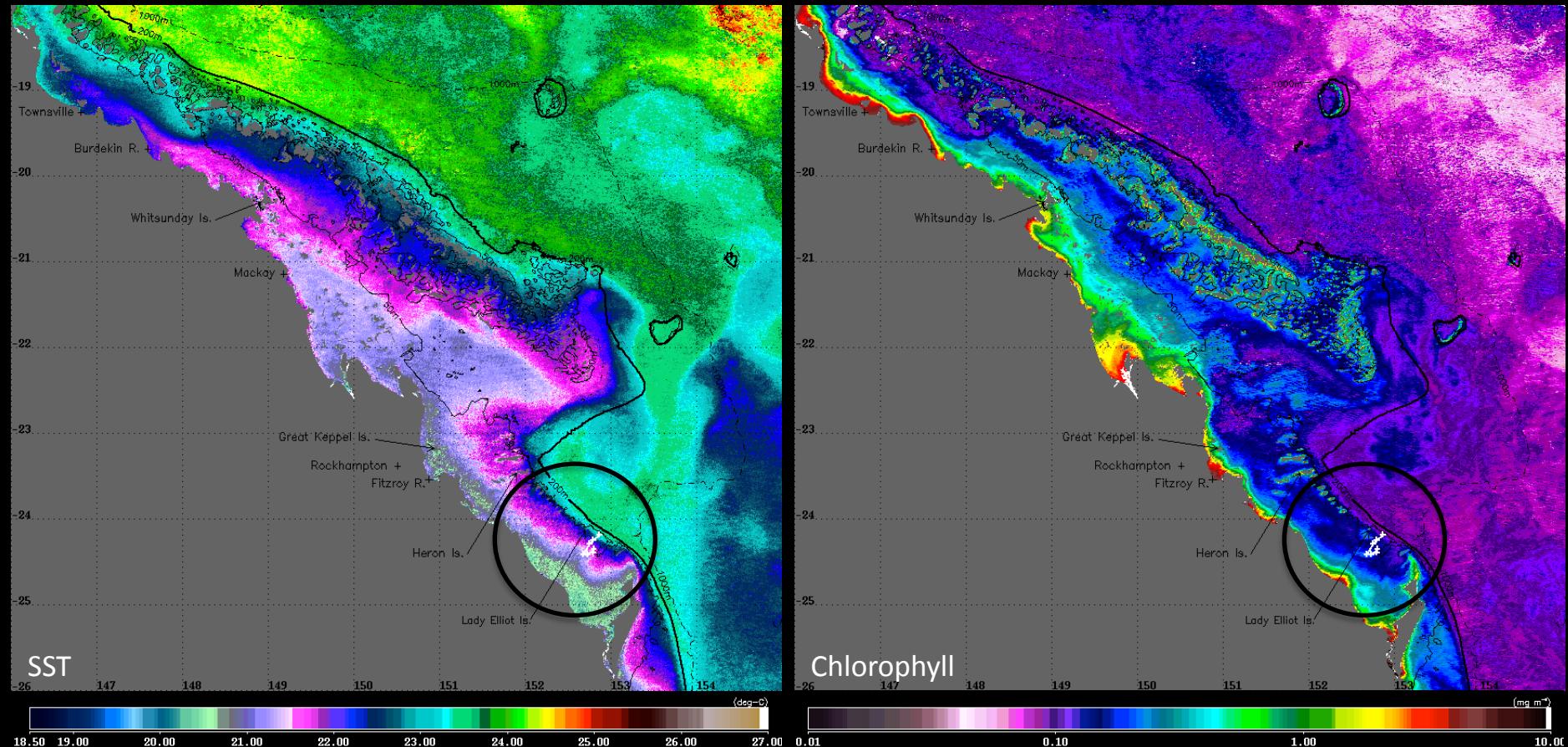
1-7 September 2011



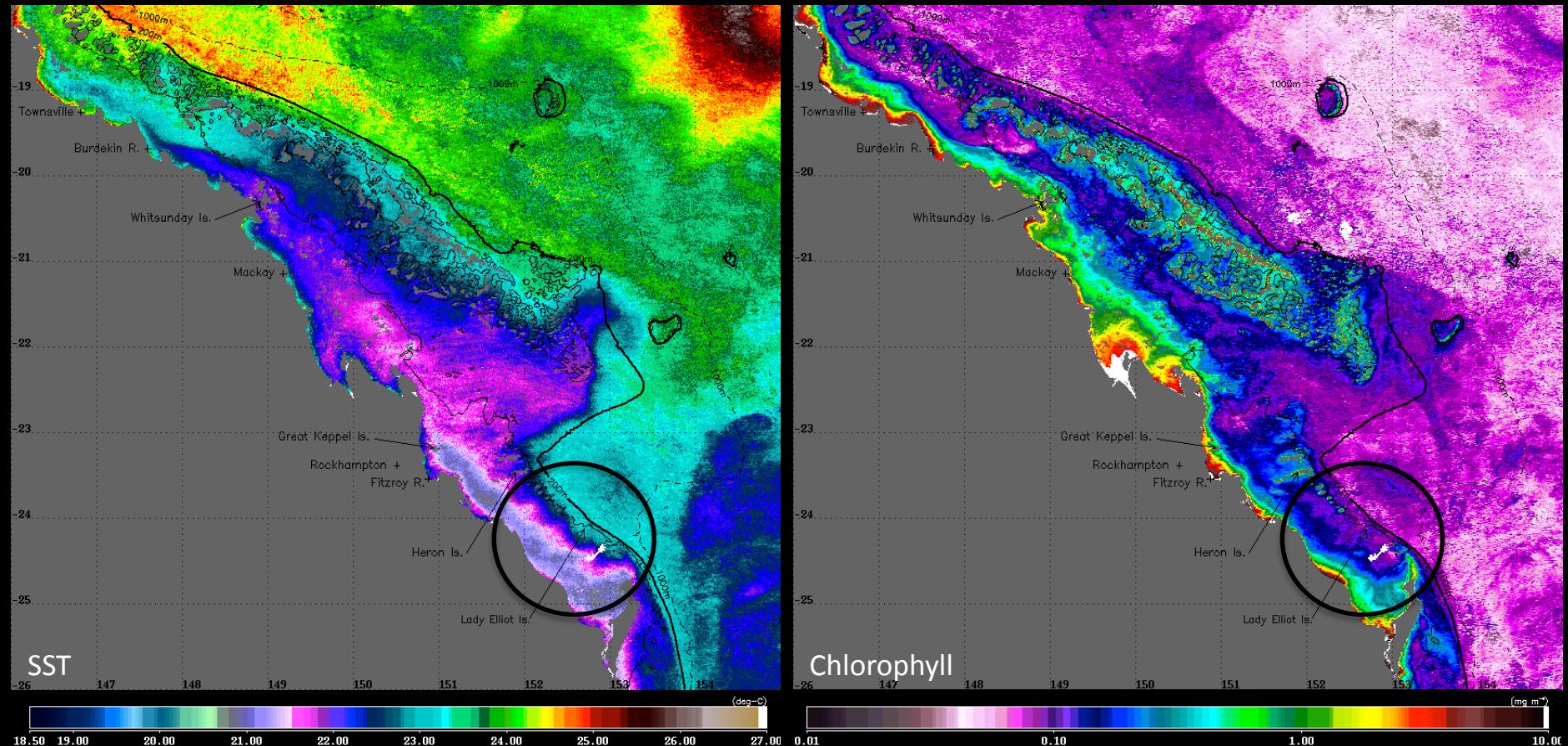
8-14 September 2011



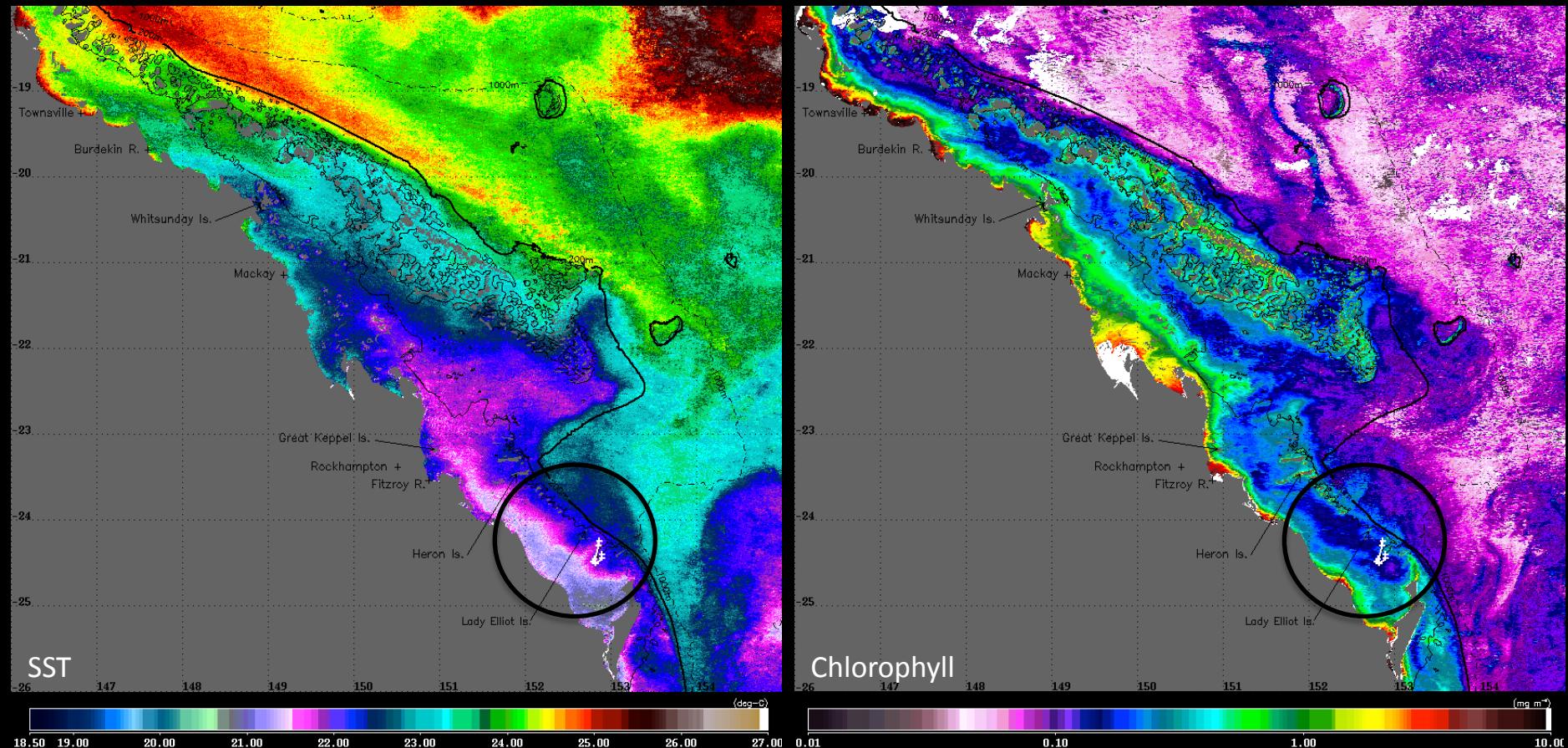
15-21 September 2011



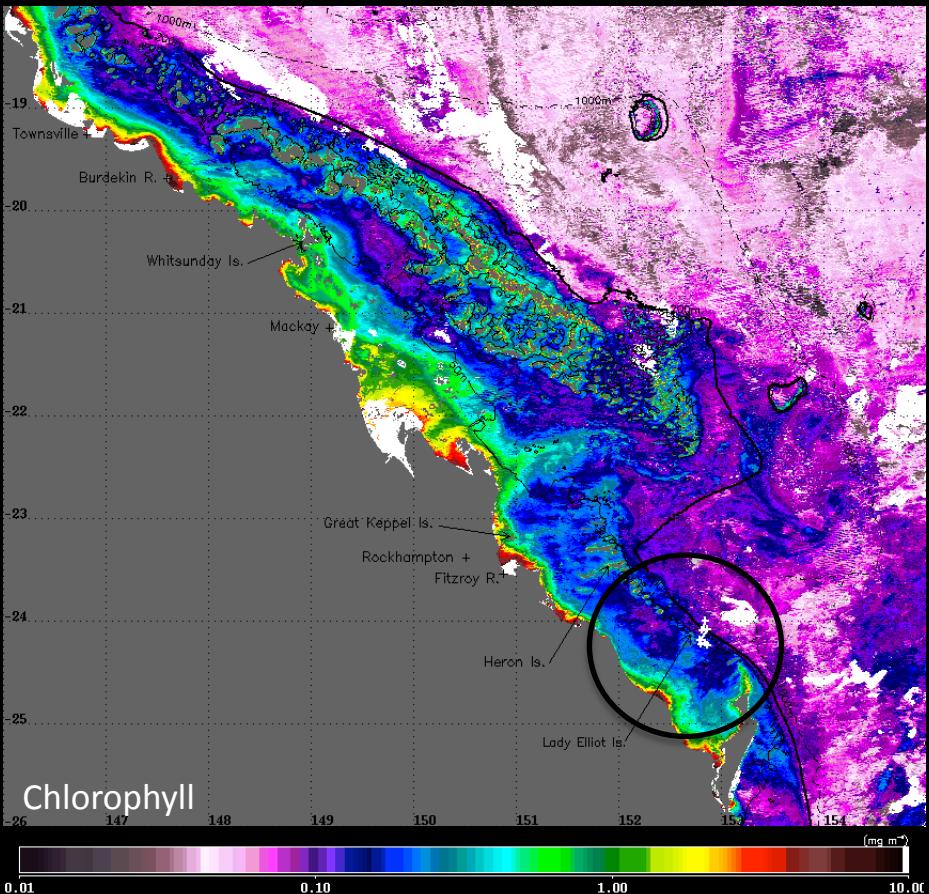
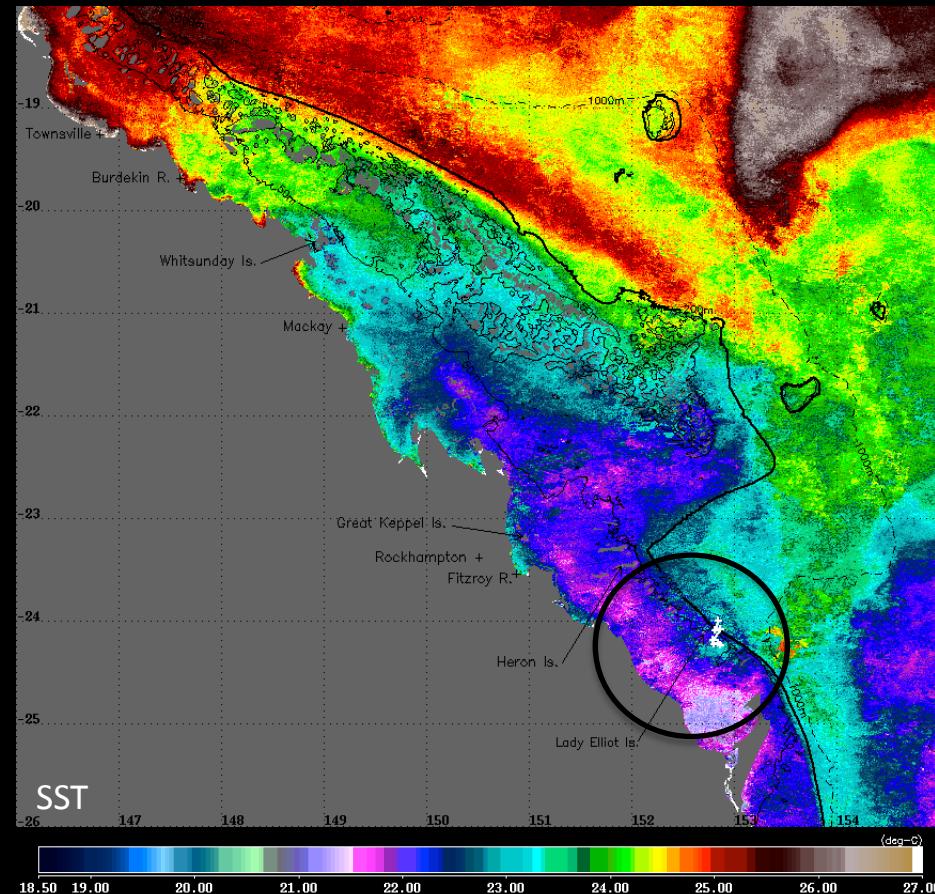
22-28 September 2011



29 September - 5 October 2011



6-12 October 2011



13-19 October 2011

