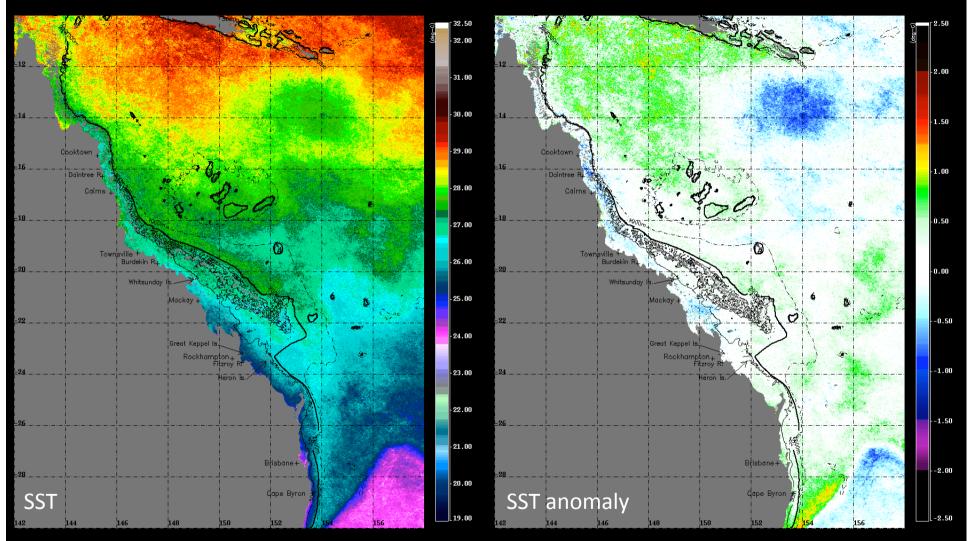
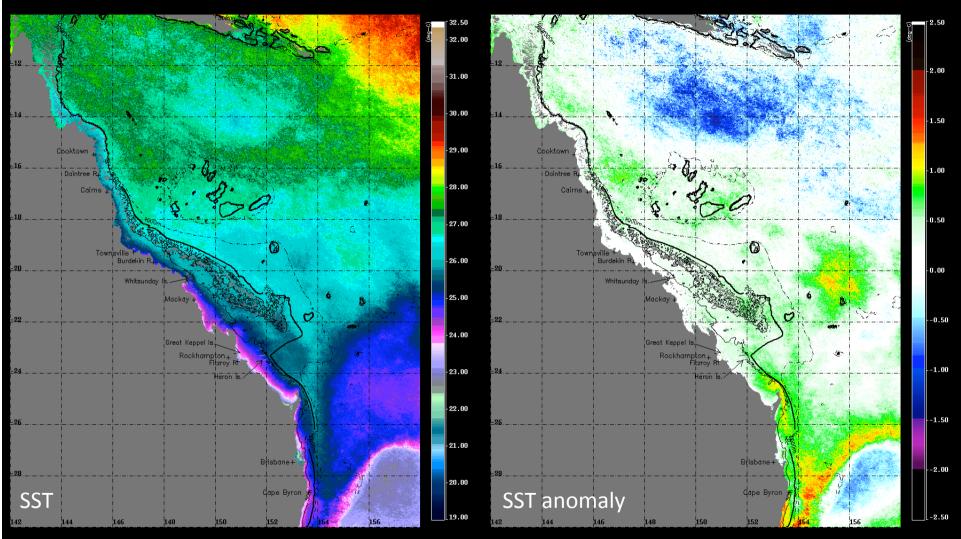
Modis SST (day+night): April 2010



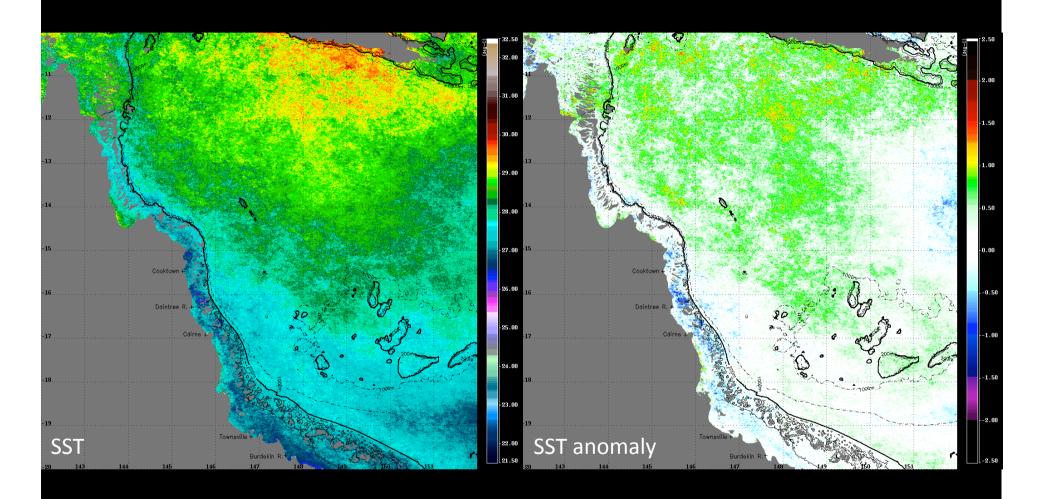
- Close to average conditions for most of the GBR.
- The strong anomalies presented in March (both positive anomalies over N_GBR and negative anomalies over the Coral Sea) have dissipated during the month of April

Modis SST (day+night): May 2010



- Mostly average conditions over the GBR in May except for warm waters south of the Capricorn Bunker group. A cool anomaly in the Coral Sea.
- Warm anomalies south of Heron Is & a strong front offshore of Byron

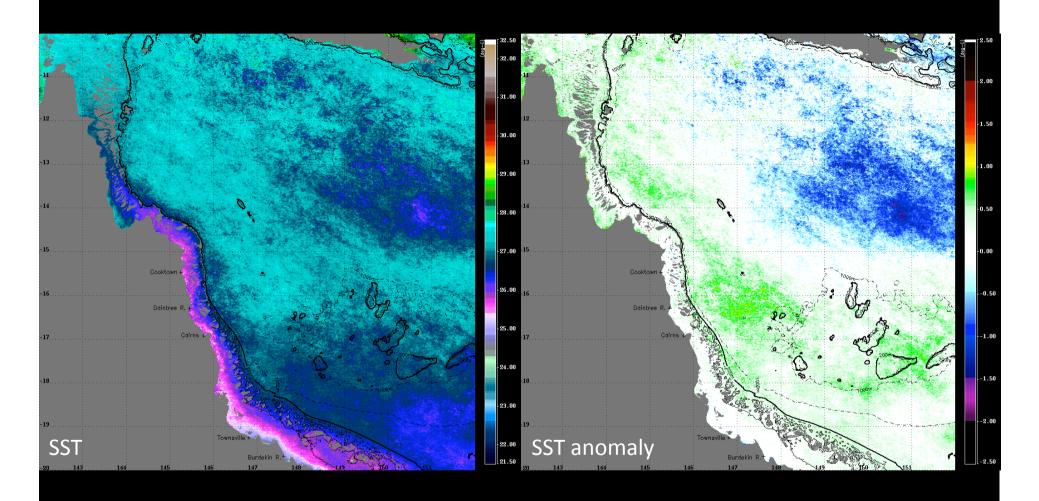
Northern GBR SST: April 2010



Note:

• The strong positive anomalies present in March dissipated during the month of April

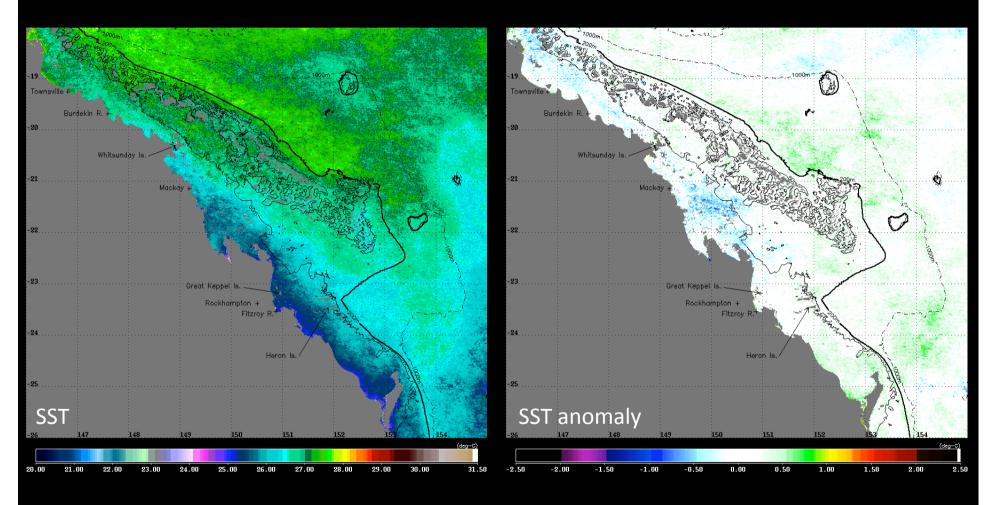
Northern GBR SST: May 2010



Note:

• Mostly average conditions in May except for a cool area in the Coral Sea

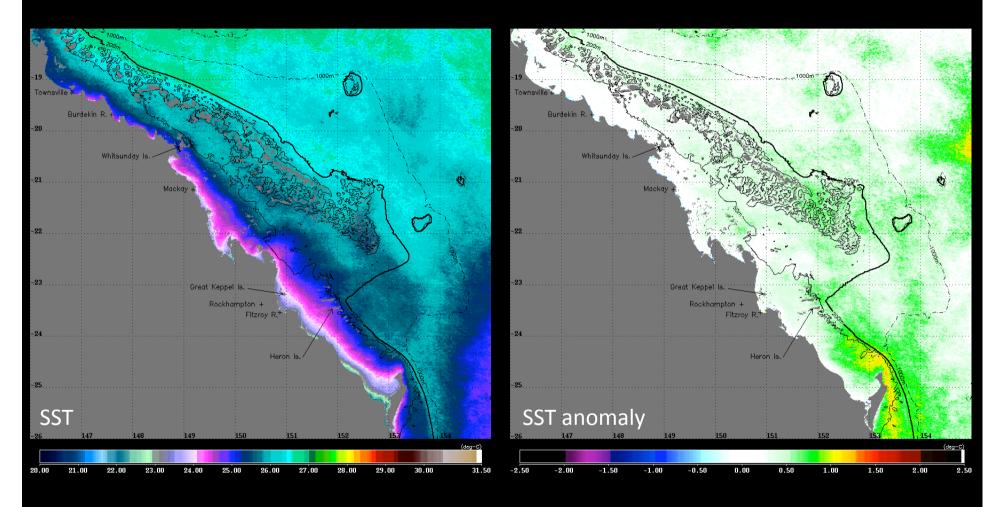
Southern GBR SST: April 2010



Note:

• Mostly average conditions for the S-GBR in April

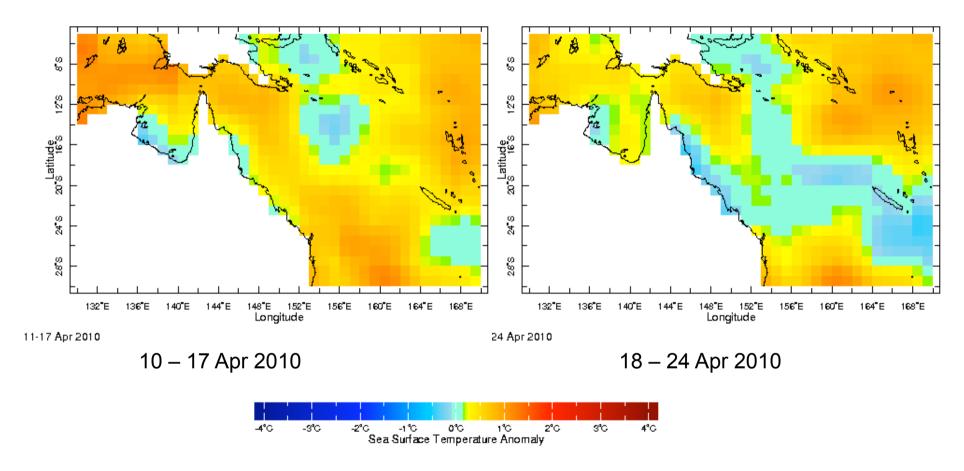
Southern GBR SST: May 2010



Note:

• Mostly average conditions for the S-GBR also in May, with the exception of positive anomlies in the waters south of the Capricorn Bunker group.

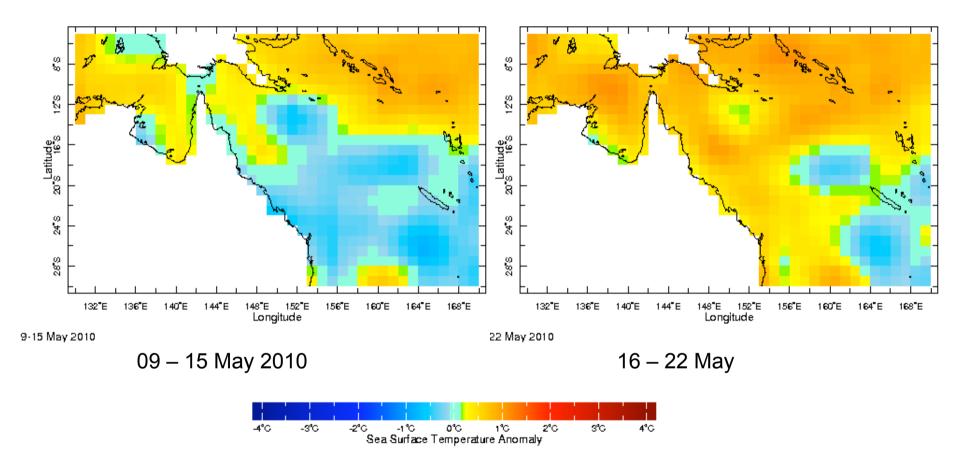
NOAA NCEP EMC CMB GLOBAL Reyn_SmithOlv2 weekly ssta: Sea Surface Temperature Anomaly data



Note:

• Coincident with the MODIS SST data, the NOAA SST anomaly product shows that the strong anomalies dissipate through the month of April

NOAA NCEP EMC CMB GLOBAL Reyn_SmithOlv2 weekly ssta: Sea Surface Temperature Anomaly data



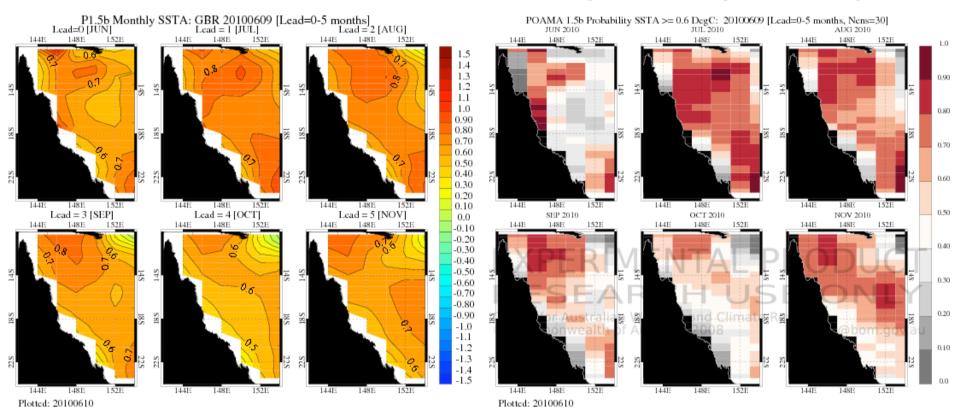
Note:

• NOAA SST anomaly product shows SSTA close to zero for the first half of May that become more positive on the second half.

Experimental Great Barrier Reef SST Anomaly Forecasts (POAMA)

POAMA SST anomalies forecast for the following 6 months.

New POAMA product highlighting the probability of SST anomalies greater than 0.6 deg C for the following 6 months.



Note:

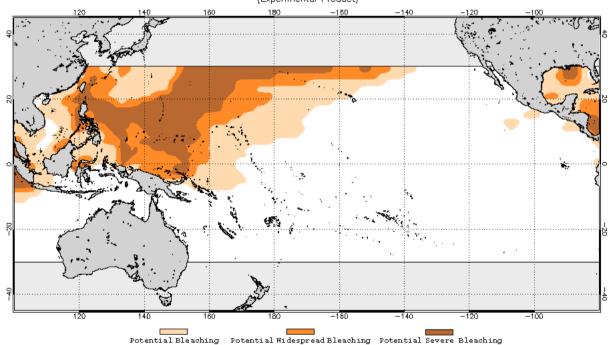
• POAMA forecast of SST has change to predict higher positive SST anomalies for the months July to September.

NOAA Coral Reef Watch

Seasonal Coral Bleaching Thermal Stress Outlook (Experimental product, 2x2 degree spatial resolution)

Outlook for June to September 2010

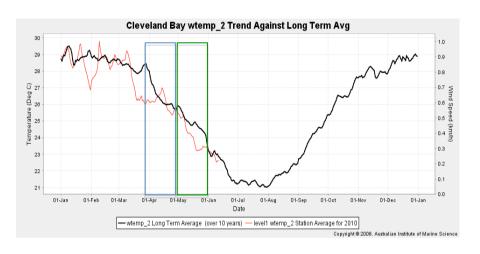
2010 Jun 08 NOAA Coral Reef Watch Coral Bleaching Thermal Stress Outlook for Jun-Sep 2010 (Experimental Product)

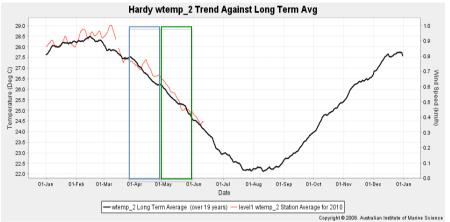


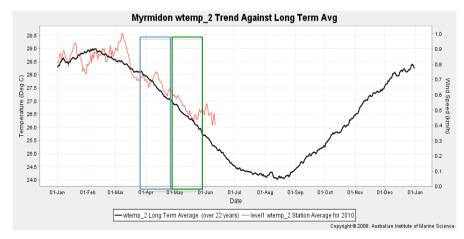
Note:

• NOAA thermal stress Outlook for April to July show no risk of bleaching for winter along the GBR.

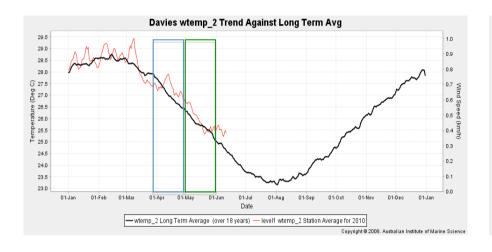
Weather Observing System: AIMS Data Centre

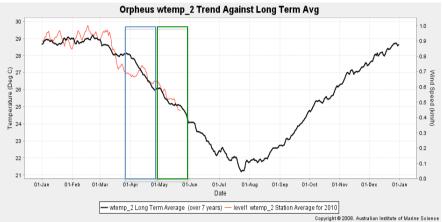






Weather Observing System: AIMS Data Centre



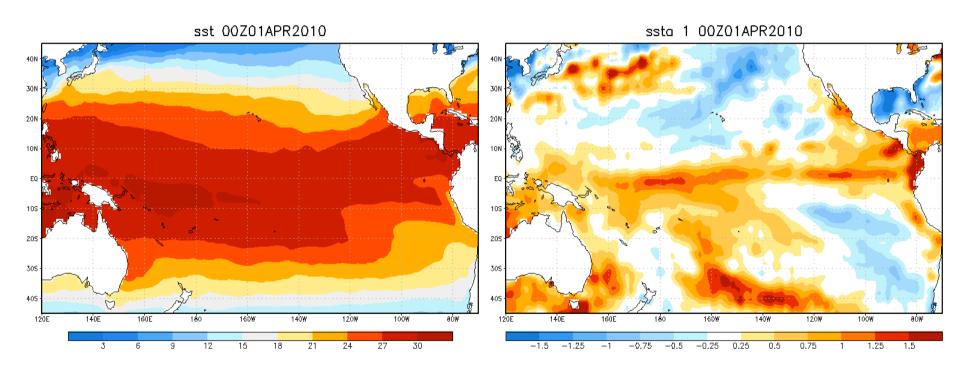


- AIMS in situ data shows mostly average SST for this time of the year.
- Cleveland Bay present lower than average temperatures for May

NOAA Optimum Interpolation Sea Surface Temperature Analysis:

OI SST: APRIL 2010

OI SST ANOMALY: APRIL 2010



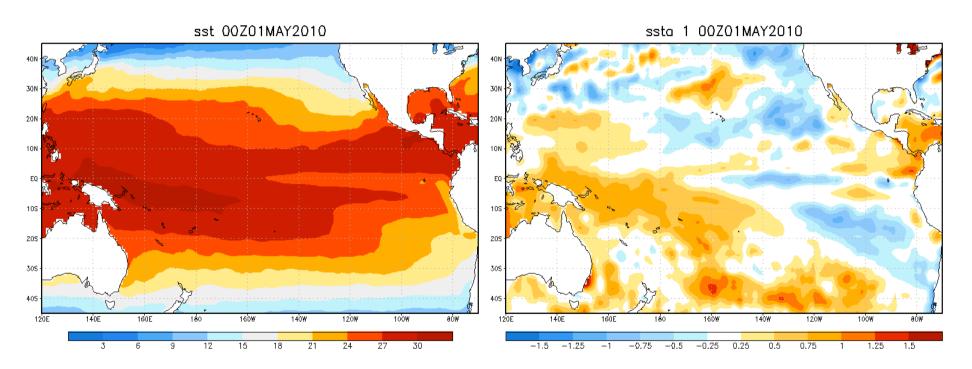
Note:

• El Niño-like conditions started to dissipate in April, as the SST anomalies weaken over the equatorial Pacific.

NOAA Optimum Interpolation Sea Surface Temperature Analysis:

OI SST: MAY 2010

OI SST ANOMALY: MAY 2010

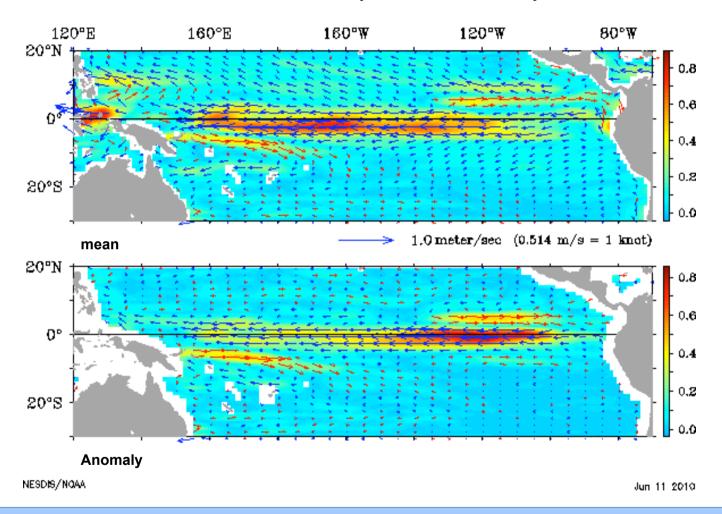


Note:

• During May the positive SST anomalies continues to decrease across the equatorial Pacific Ocean with negative SST anomalies now apparent over the eastern half of the Pacific.

OSCAR: Ocean Surface Current Analysis - Real time

APRIL 2010: monthly mean vs anomaly

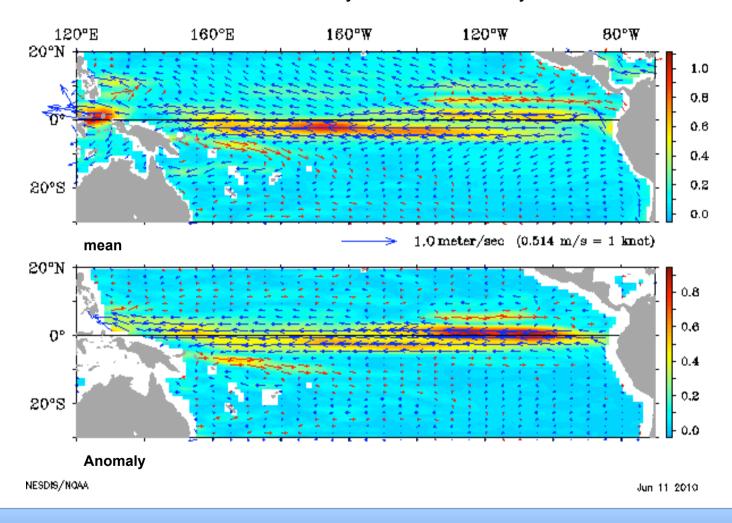


Note:

• In April, the anomalies present over the last months (that characterize an El Niño event) dissipated, with a strong westward South Equatorial Current present over the equator

OSCAR: Ocean Surface Current Analysis - Real time

MAY 2010: monthly mean vs anomaly

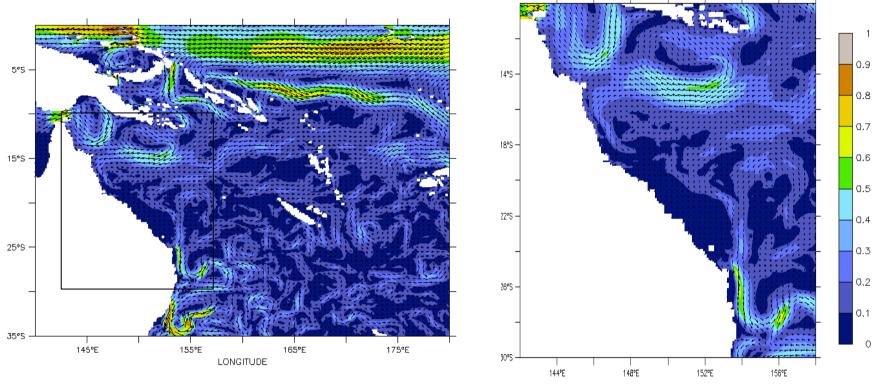


Note:

• Strong westward SEC flow continues in May: we have ENSO neutral conditions.

OceanMAPS 15m Depth-Average Currents MAY 2010

OceanMAPS Ocean Modeling, Analysis and Prediction System was developed at CSIRO Marine and Atmospheric Research and the Bureau of Meteorology, is part of the **Bluelink** project and produces routine forecast of ocean conditions around Australia.



Behind Real Time analysis
15 m Depth-Averaged Currents (m/s).

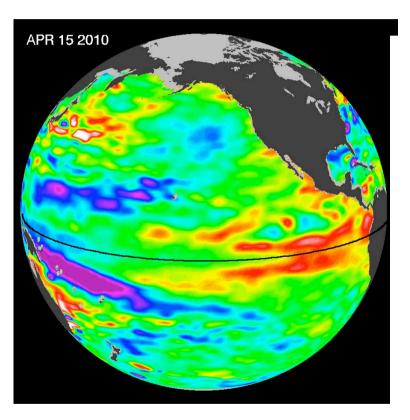
Note:

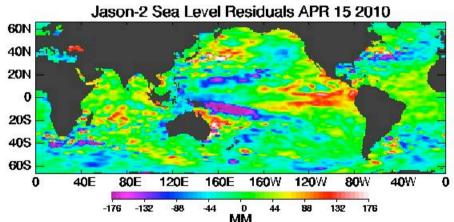
- Strong South Equatorial Current (SEC) inflow with a bifurcation at 14 deg S. A strong recirculation is present in the Gulf of Papua.
- The East Australian current is tracking the continental shelf break and gains strength with contributions from various zonal jets of the SEC being most intense just to the south of The Capricorn Bunker Group.

(comments provided by Craig Steinberg and Richard Brinkman - AIMS)

Sea surface height anomalies from Ocean Surface Topography: Jason-1 and Jason-22 (NASA/French)

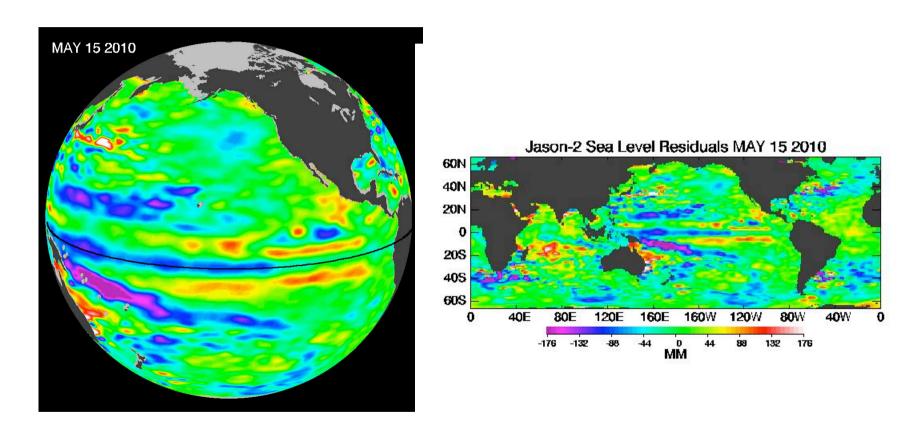
10-day data cycle centered around APRIL, 2009.





Sea surface height anomalies from Ocean Surface Topography: Jason-1 and Jason-22 (NASA/French)

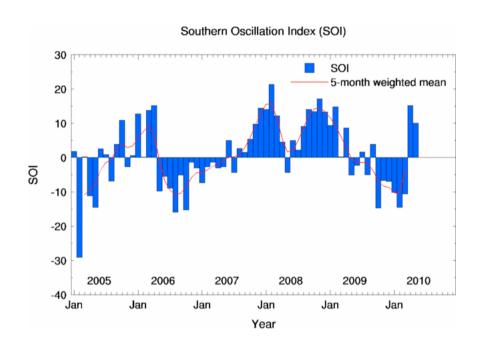
10-day data cycle centered around MAY, 2009.



Note:

•The positive SSH anomalies presented over the east equatorial Pacific dissipated during May, associated with a strong SEC and the relaxation of El Niño conditions.

ENSO index





Negative SOI = El Niño

Positive Nino 3.4 index= El Niño

- The ENSO indices show a dismiss of the El Niño.
- "The majority of models predict ENSO-neutral conditions through early 2011... However, over the last several months, a growing number of models, including the NCEP Climate Forecast System (CFS), indicate the onset of La Niña conditions during June-August 2010."-excerpt from El Niño/Southern Oscillation (ENSO) diagnostic discussion, issued by Climate Prediction Center/NCEP/NWS 3 June 2010