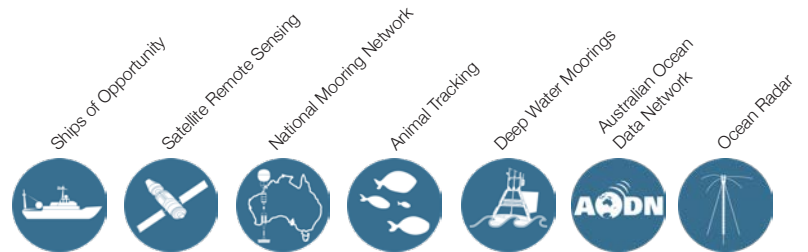# The data behind the Time Series

	Ships of Opportunity	Satellite Remote Sensing	National Mooring Network	Animal Tracking	Deep Water Moorings	Australian Ocean Data Network	Ocean Radar
1. Physical and Chemical Time Series							
1.1 Long-term changes in temperature around Australia		●	●				
1.2 Sea Surface Temperature Variability		●					
1.3 East Australian Current Variability		●			●		●
1.4 Variability in ocean currents around Australia		●					
1.5 Spatial and temporal trends in concentrations of the nutrients N, P, Si			●				
1.6 Ocean acidification			●				
2. Biological Time Series - Productivity							
2.1 Spatial and seasonal trends in Chlorophyll a		●					
2.2 Spatial and seasonal and trends in net primary production		●					
2.3 Contrasting trends of Australia's plankton communities			●				
2.4 The seasons of phytoplankton around Australia		●					
2.5 Indicators of depth layers important to phytoplankton production			●				
2.6 Picophytoplankton: harbingers of change in our costal oceans			●				
2.7 Status of Australian marine microbial assemblages			●				
3. Biological Time Series - Water Quality							
3.1 Water clarity around Australia – satellite and in situ observations		●	●				
3.2 Spatial and seasonal trends in *Trichodesmium*	●		●				
3.3 *Tripos* dinoflagellates as indicators of Australian marine bioregions	●		●			●	
3.4 Harmful Algal Blooms and the shellfish industry						●	
3.5 Harmful Algal Blooms in New South Wales						●	
3.6 Range expansion of the red tide dinoflagellate *Noctiluca scintillans*	●		●				
4. Biological Time Series - Marine Animals							
4.1 The response of the copepod community to long-term warming along the east coast of Australia	●		●				
4.2 The impact on Zooplankton of 2011 heatwave off Western Australia			●				
4.3 Use of Zooplankton communities to estimate the relative strength of the East Australian Current	●	●					
4.4 Ocean acidification and calcifying zooplankton			●				
4.5 Sounding out life in Australia's twilight zone	●						
4.6 Temporal and spatial changes in larval fish	●		●				
4.7 Continental-scale shark migrations				●			
4.8 Tracking elephant seal population trends in the Southern Ocean				●			