Deep Water Arrays observe deep ocean currents and properties needed to understand the role of ocean on climate and its variability. The arrays monitor ocean circulation and its variability around Australia, providing valuable estimates of the ocean to the regional and global circulation, heat and freshwater content and exchange. The information provided by Deep Water Arrays contribute to a global understanding of ocean dynamics and allow the establishment of reliable climate and ocean models.

Deep Water Arrays have been deployed at three sites including the Polynya off the Adelie Land Coast in Antarctica, the Indonesian Throughflow in the Timor Sea and the East Australian Current off the coast of Queensland.