



Associate Professor Neil Holbrook

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Associate Professor Holbrook uses his background in applied mathematics and physical oceanography, and his expertise in ocean and climate dynamics at seasonal to multi-centennial time scales, to better diagnose the important mechanisms underpinning climate variability and climate change. To reduce the uncertainties associated with human-induced (anthropogenic) climate change, the potential risks associated with abrupt climate change, and the likely changes in climatic extreme events, requires a strong understanding of natural climate variability on all time scales.

He leads a small team developing deterministic and statistical models to better predict El Niño – Southern Oscillation, Pacific decadal variability and tropical cyclone formation, in order to reduce climate risks. He has also published extensively in the international literature on the ocean's role in climate, climate variability, climate extremes and climate change. Professor Holbrook is Convener of Australia's National Climate Change Adaptation Research Network for Marine Biodiversity and Resources.