Australia – New Zealand Tour 2019



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Azamara Quest; February 7 - 21, 2019 Sydney, Australia to Auckland, New Zealand





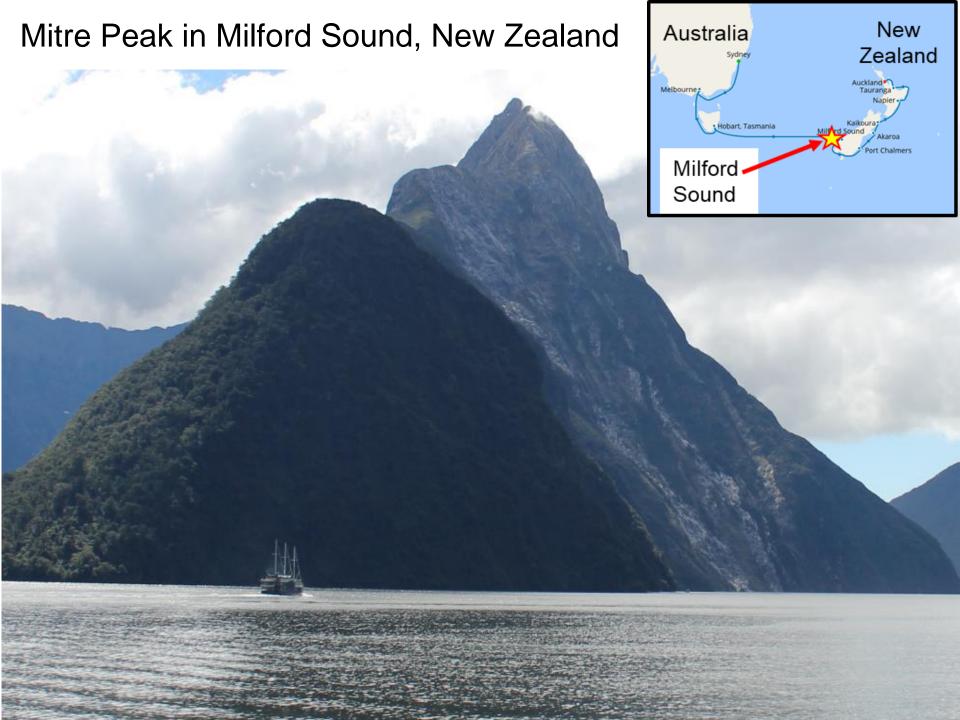




One of the most famous geologists and Antarctica explorers, Sir Douglas Mawson (1882-1958) was a professor of geology and mineralogy. Hobart is the jumping off point for exploration of the South Pole. The replica in Hobart is shown here. The actual Mawson historic huts used 1911-1914 in Antarctica (insert) are exposed to extreme conditions.

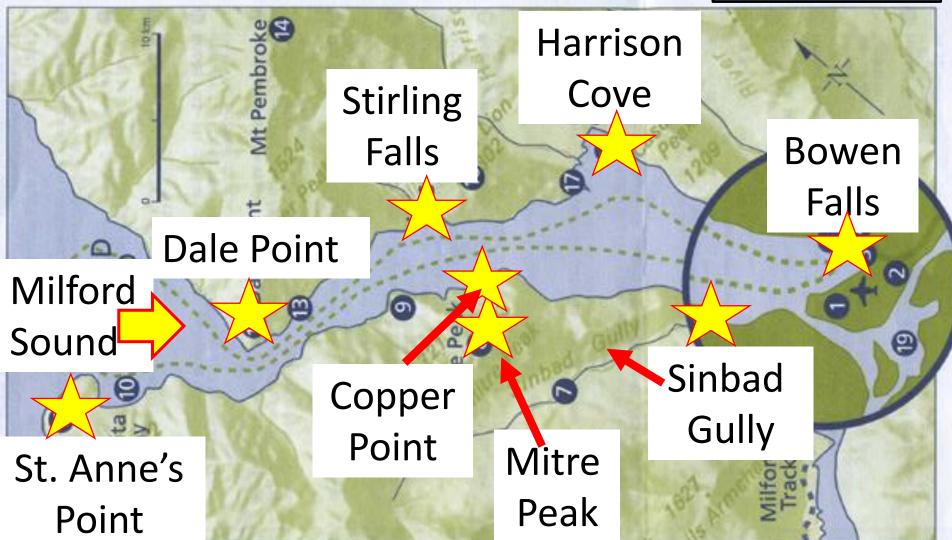


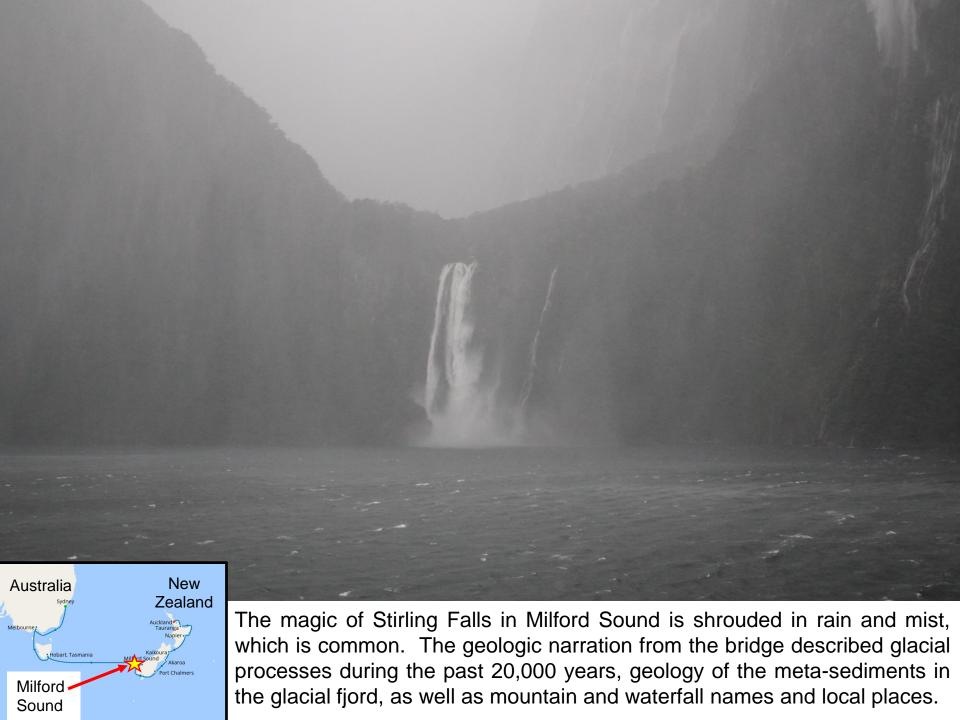
expedition leader. Mackay, David and Mawson (shown with star) raise the flag at the Magnetic South Pole on 16 January 1909. Mawson joined Ernest Shackleton's (1907-1909) Expedition. Mawson was the first to climb Mt. Erebus and trek to the South Magnetic Pole. Geologist Mawson is featured on the \$100 Australian paper note.

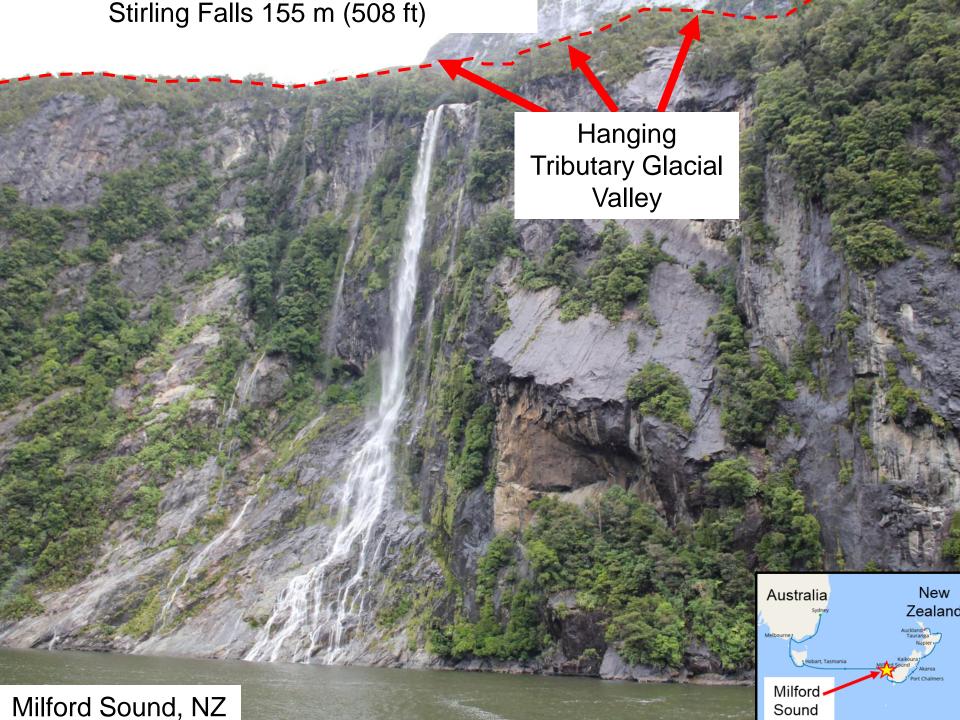


Milford Sound Bridge Narration Trip Map



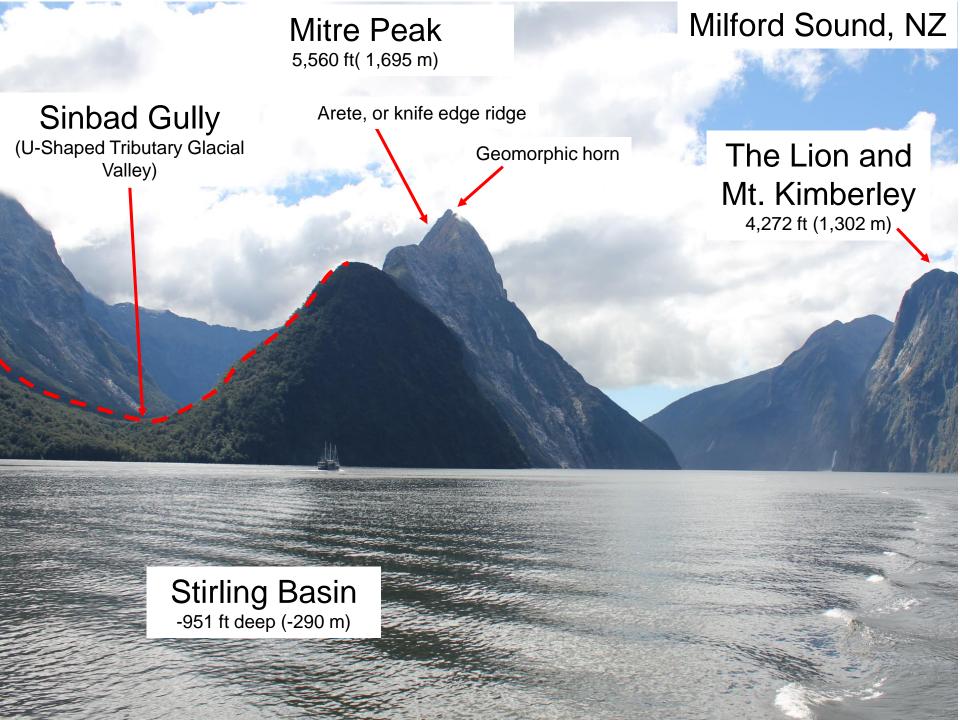


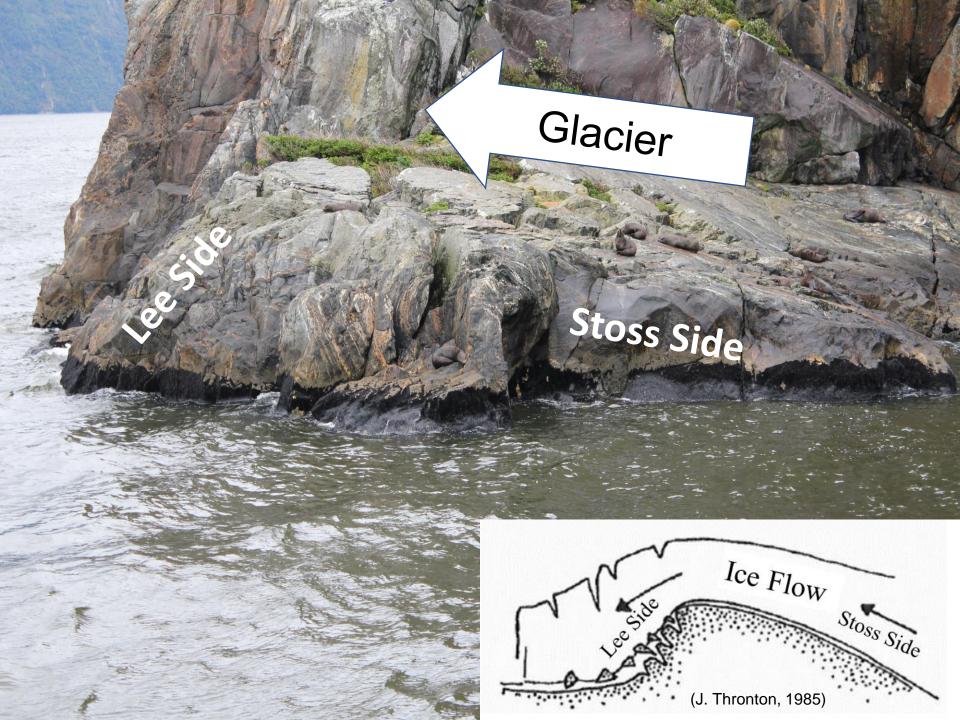




Southern Fur Seals on Seal Rock, Milford Sound, NZ



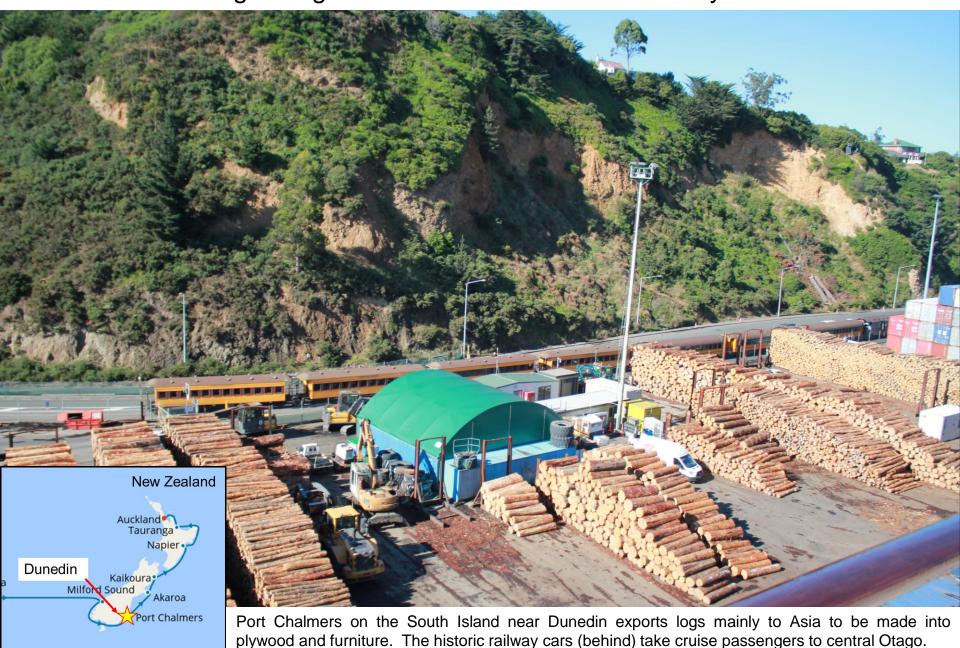




Dunedin and Port Chalmers on the South Island are former volcanic centers.



The imported Radiata pine is the primary exported wood species in New Zealand. The fast-growing trees are harvested in about 24 years



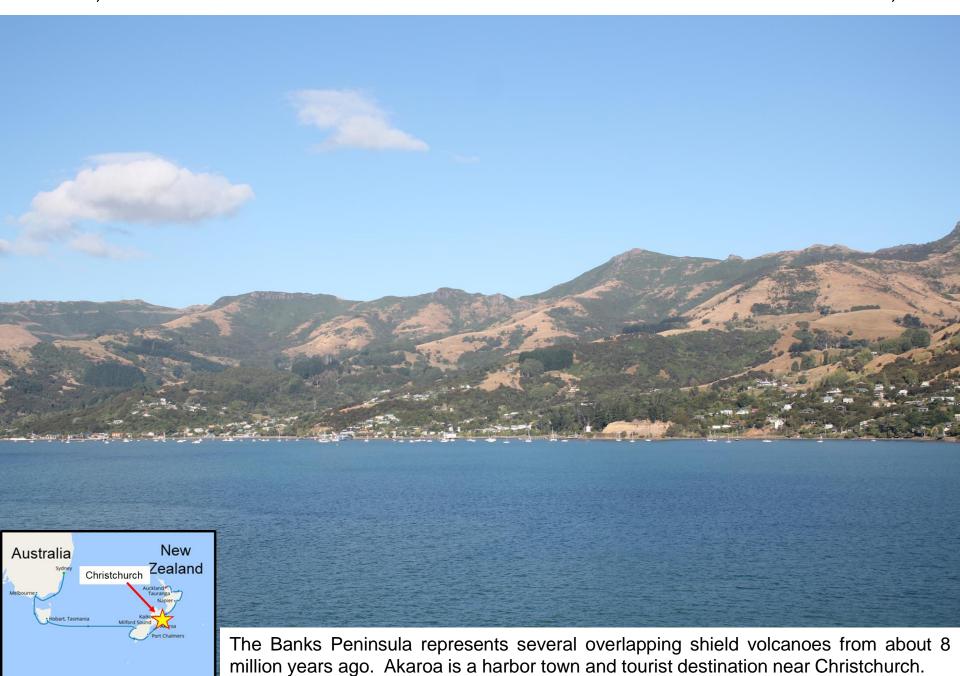


Brewed since 1876, Speight's Brewery in Dunedin gives locals free access to water from their well; the groundwater is the secret to the beer.



1880s, was built on steeply-dipping volcanic hills.

Akaroa, an historic French town on the Banks Peninsula near Christchurch, NZ





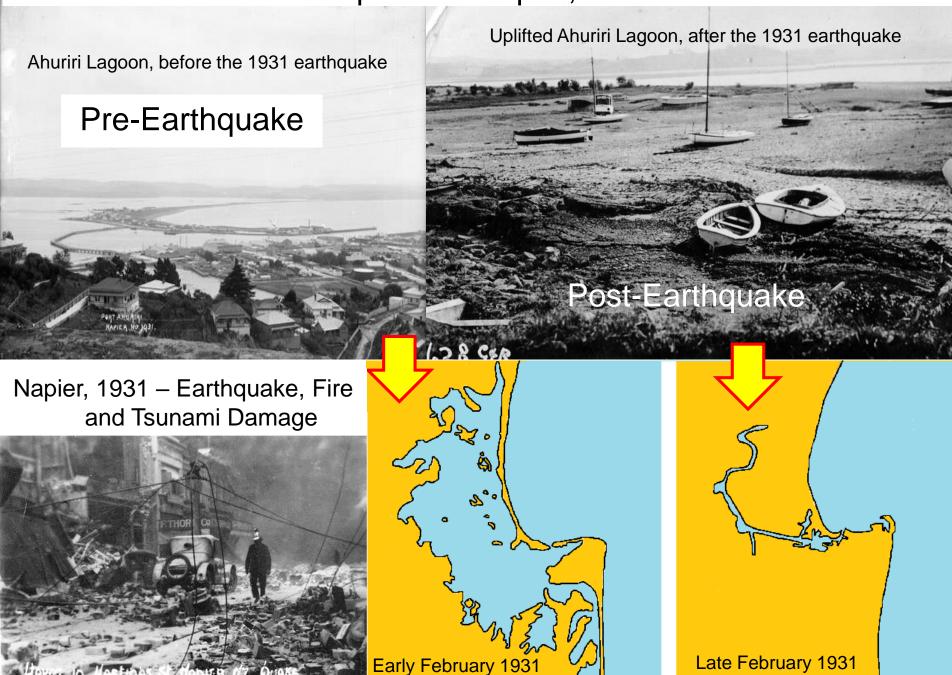
Christchurch Art Gallery (Te Puna o Waiwhetu) was built in 2003, prior to the 2011 earthquake. It sustained some earthquake damage which was repaired.

Christchurch: Cathedral of the Blessed Sacrament, Feb. 2019.



Damage from the February 22, 2011 M 6.3 Earthquake; (the wall is being held up by concrete-filled shipping containers). 2007 photo of historic cathedral (inset)

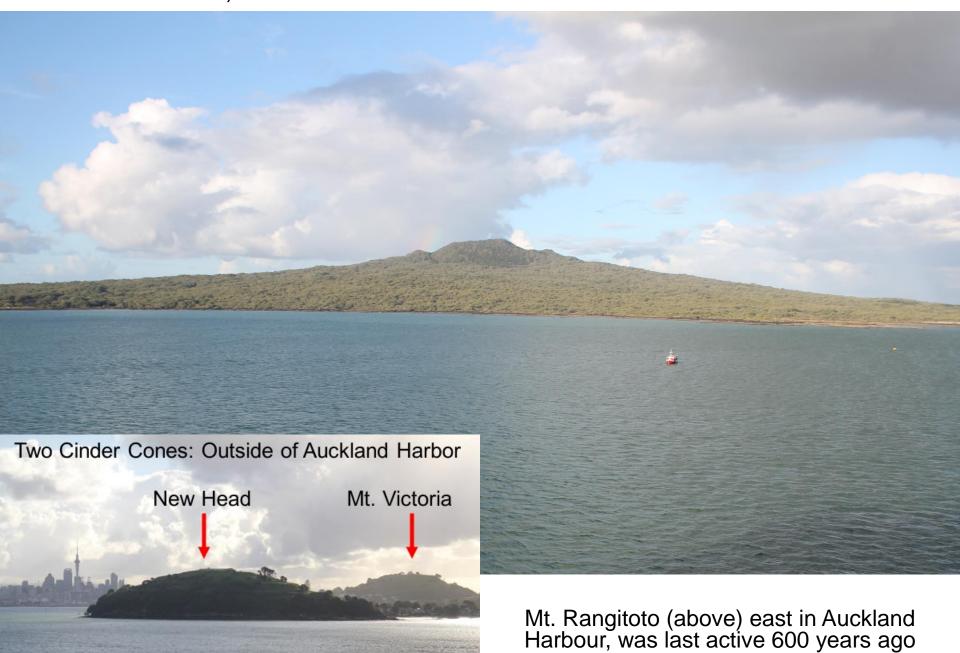
1931 Earthquake in Napier, New Zealand







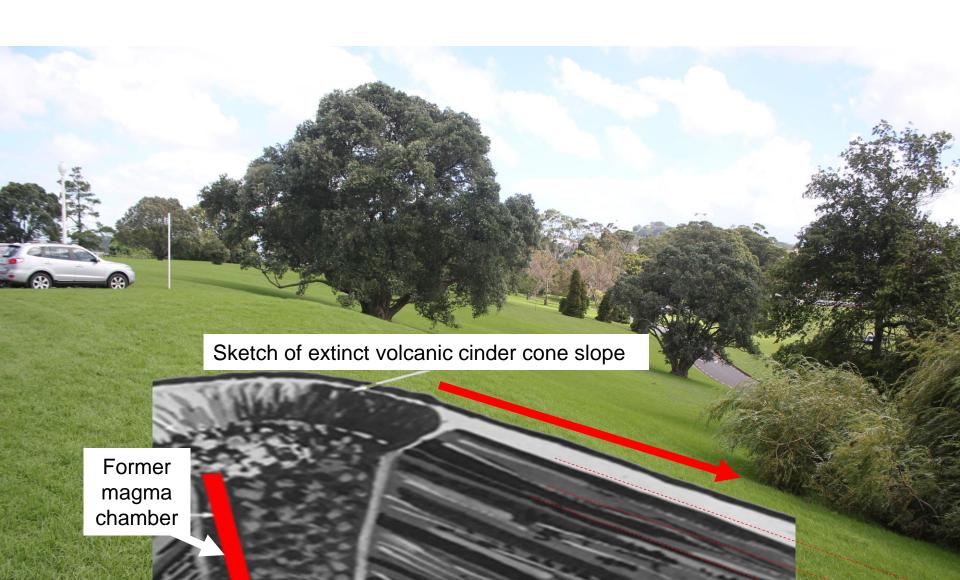
Auckland, NZ is located within a volcanic cinder cone field



The Auckland War Memorial Museum is a world-class natural history museum featuring geologic exhibits, mineral specimens and military history. The museum sits at the top of an extinct volcanic cinder cone.



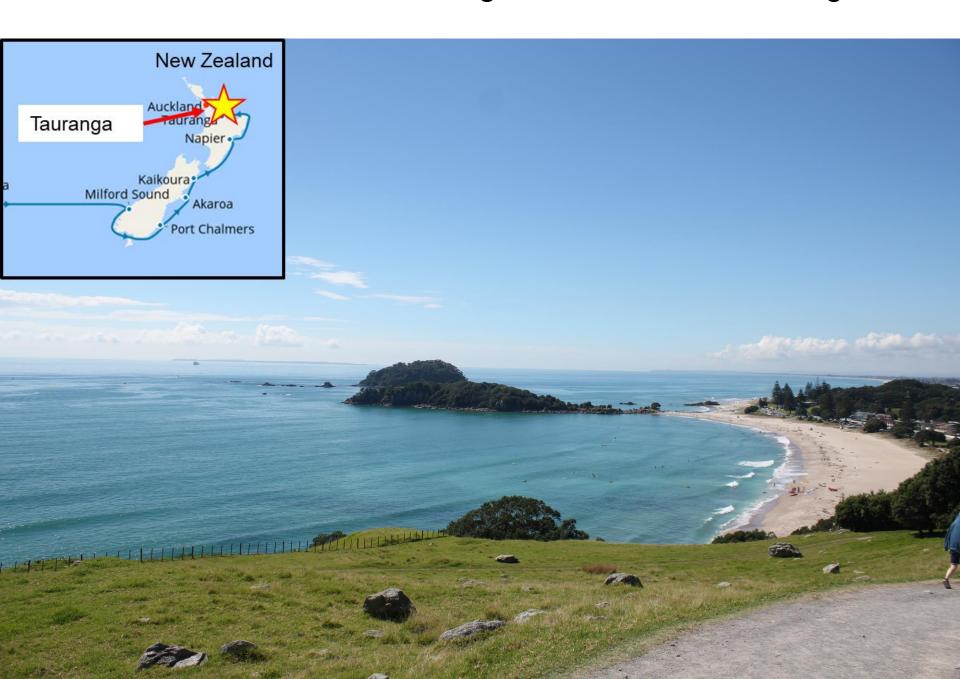
The sides of the Auckland War Memorial Museum are the slope of a cinder cone



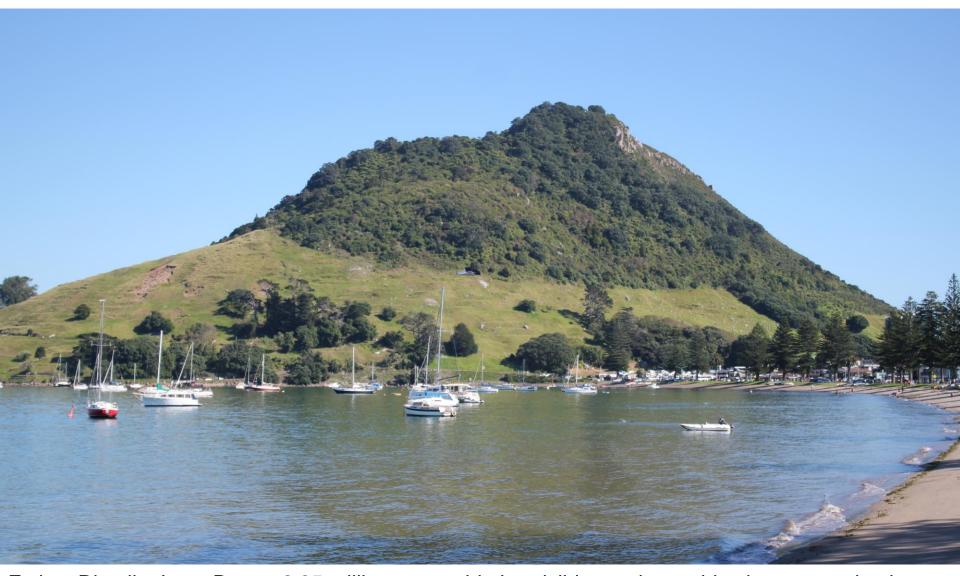
Azamara Quest; February 21 – March 8, 2019 Auckland, New Zealand to Cairns, Australia



View of beaches near Tauranga, NZ from Mount Manganui



Mount Maunganui (322 m high) near Tauranga, NZ



Extinct Rhyolite Lava Dome: 2.35 million years old. Landslides and unstable slopes seen in photo on left side. Evidence of Maori settlement at base (shell middens at least 600+ years old) based on Carbon-14 dating).

Wellington is the capital of New Zealand



Known as "Windy Welly", Wellington is the capital of New Zealand



The windiest city in the world is not Chicago, but Wellington, New Zealand. Photo is of the first windmill in the city.

The Museum of New Zealand (Te Papa) in Wellington, NZ



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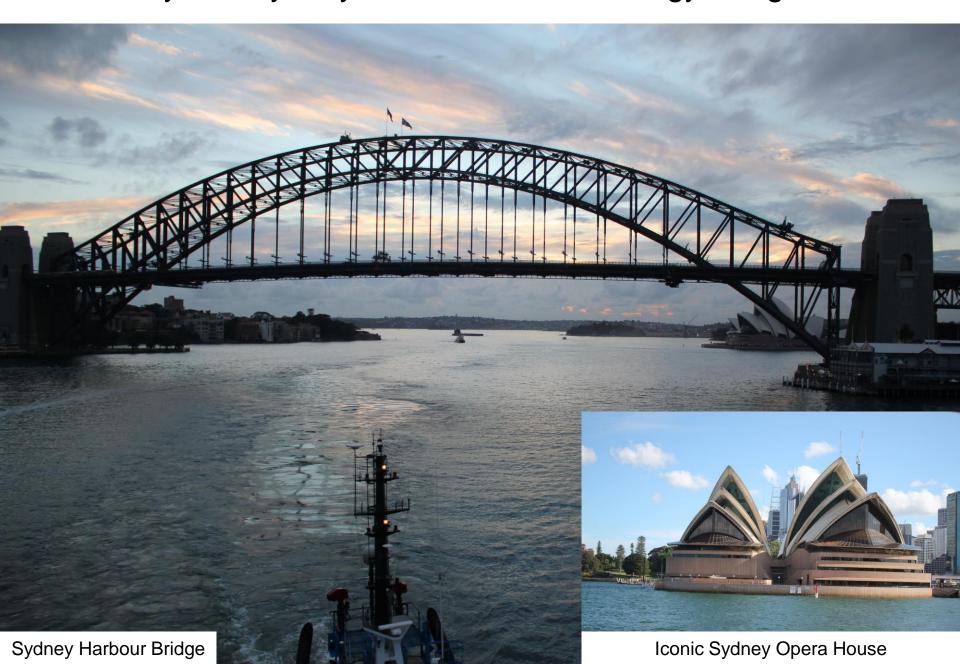
Selected Exhibits at the Museum of New Zealand (Te Papa)



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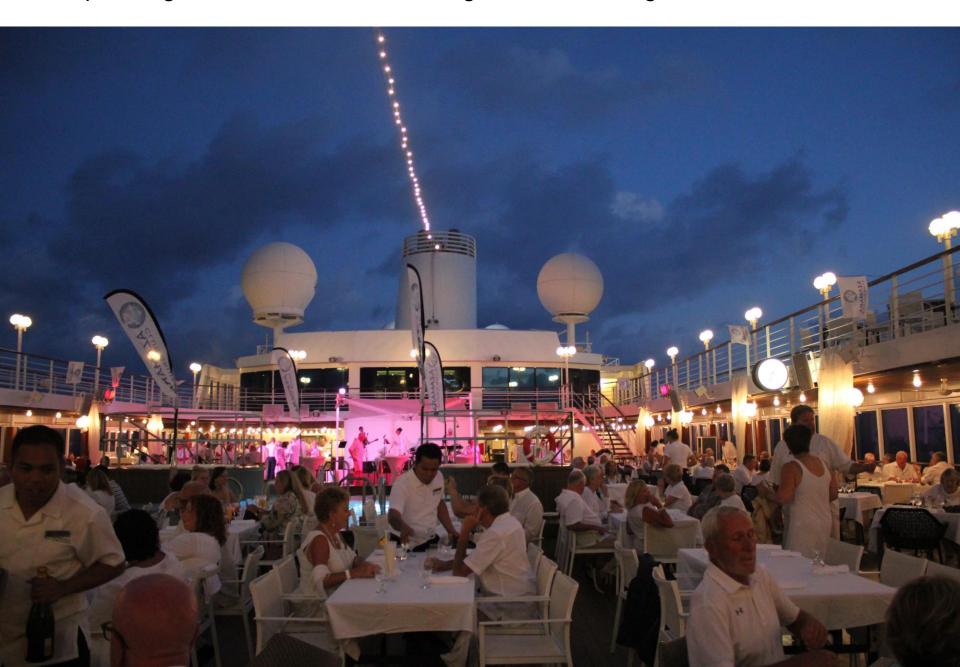
Dawn entry into Sydney Harbour with a Geology Bridge Narration



North Sydney Head: Hawkesbury "Sydney" Sandstone: Triassic 200 million year old aluvial sandstones up to about 20,000 feet (6 km) thick derived from rocks formed between 500 to 700 million years ago on long-eroded mountains in Antractica. Buildings in Sydney (inset) are clad in this sandstone.



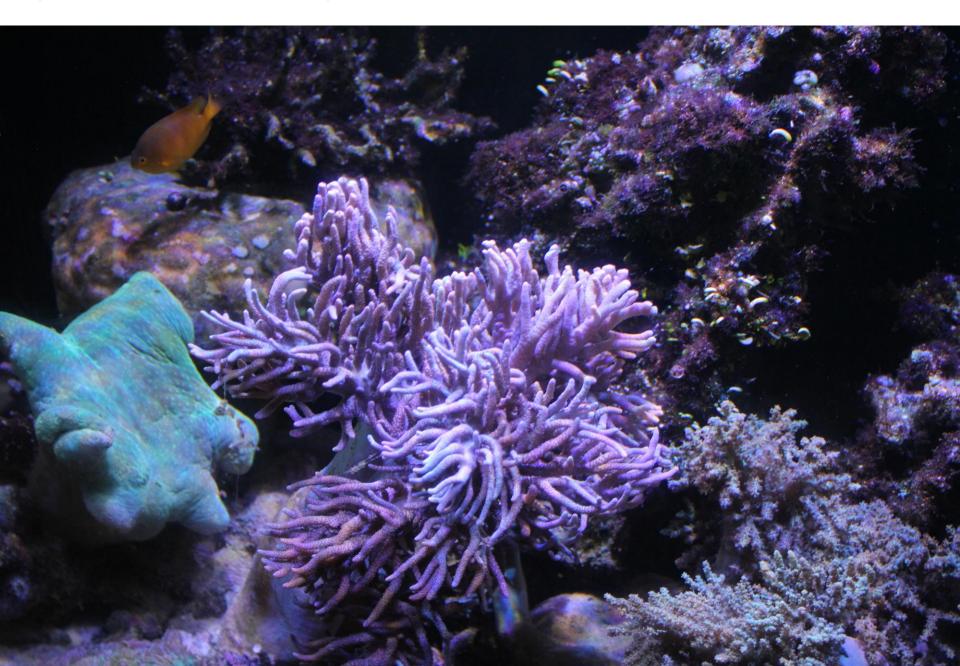
The passengers and crew revel in full regalia on White Night on the Azamara Quest



Offshore islands and the blue-green waters on the way to Airlie Beach, Australia



Soft corals from the Great Barrier Reef dance with water currents



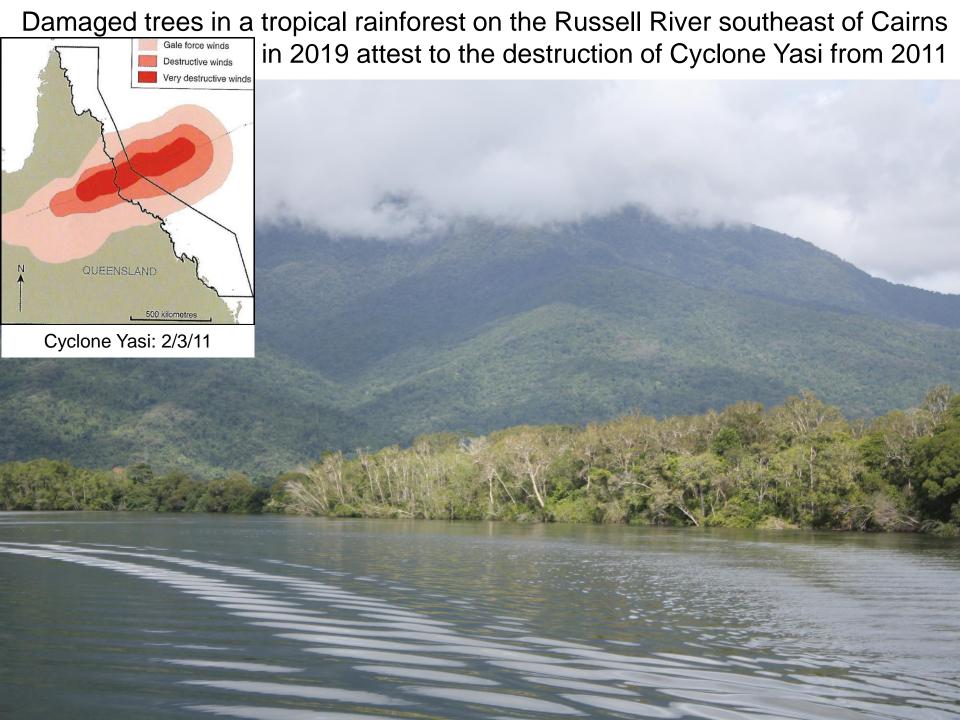
Sugar cane is a major export near Cairns



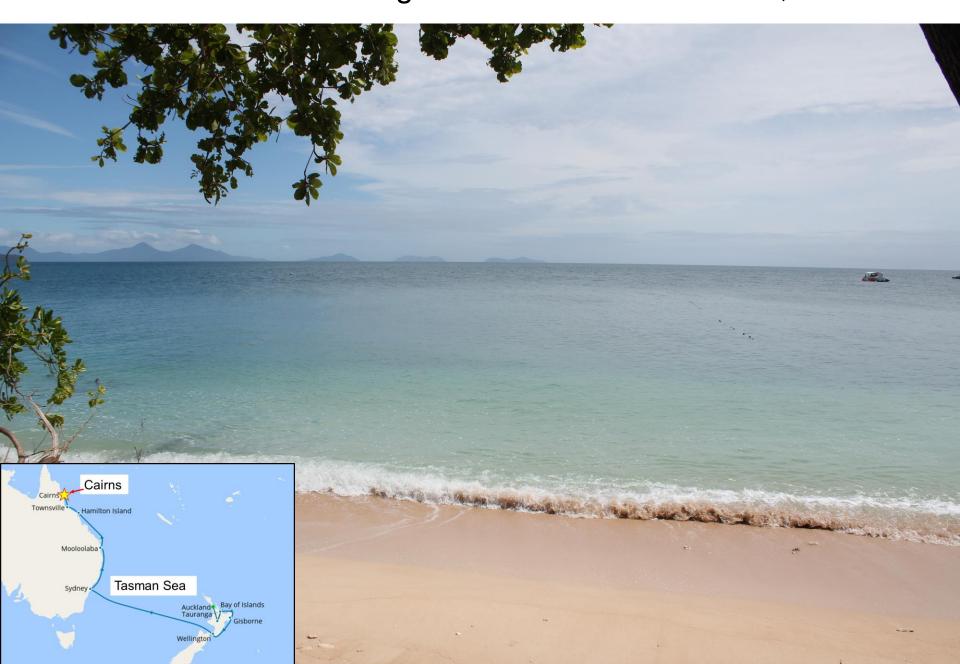
Cairns

The turbid waters north of Cairns don't reveal the Great Barrier Reef just offshore, about 1 to 2 hours by boat.

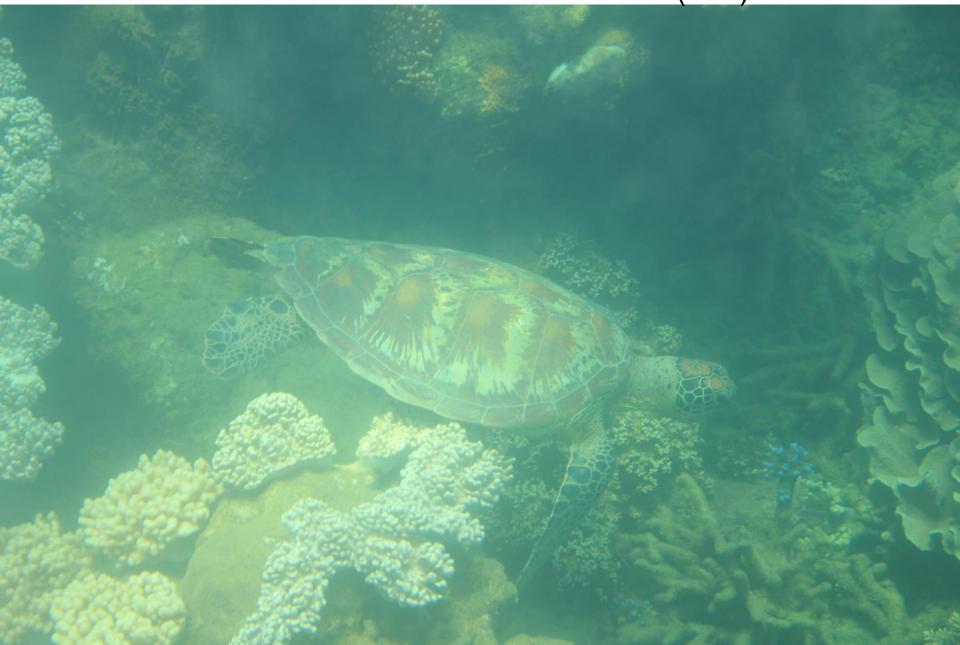




Frankland Island with fringe reef southeast of Cairns, Australia



As seen from a glass-bottom boat, a green turtle passes by hard corals off Frankland Island in about 6 feet (2 m) of water.





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James Jacobs presenting a lecture at the Cabaret Lounge on the Azamara Quest about volcanoes and the 1886 explosion of Mount Tarawera, New Zealand.