CLIMATE CHANGE, CORAL REEFS AND ECOTOURISM

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Tourism contributes to climate change

longhaul travel disproportionate offsets are ineffective or fake offsets are not taken up (<1%) "carbon neutral" islands are not **Reefs and islands affected** by climate change rapid sea-level rise storminess, surge break corals tropical ocean acidification gradual temperature increases brief temperature extremes

Climate impact cases

storms, Tuvalu temperatures, Maldives acidification, GBRMP sealevel, Holocene analogue

Reef tourism

coast and island resorts diving and snorkeling surf and kiteboarding sailing and seakayaking whale and dolphin watching



























Global scale

outdoor JPY100,000,000,000,000 p.a. valuation difficulties for reef subsector: inclusions, accounting, data large high-impact: marinas, cruiseships small low-impact: dive, whales, surf economics: travel, infrastructure, equipment, clothing > activity

Tourism impacts on reefs construction, blasting, turbidity power and water supplies sewage treatment and discharge invasive species, marine & land

moorings, anchoring, diver damage disturbance to nesting seabirds

Tourism impact research

lots re trampling damage some re diver behaviour lots on shorebirds, nesting little on marine invasive spp older work re eutrophication

Conservation

political and economic support public reserves: eg GBRMP community reserves: eg Bega private: eg Chumbe, Mnemba islands: eg North, Cousin (birds)

Conclusions

tourism can't combat climate change it can support reef conservation but at cost of tourism impacts small eco has low political impact mainstream management is key and counter vs other industries

