## a NUMBER OF LAND & COASTAL REGIONS Mean surface temperature Extreme heat ─○ Cold spell ─ Frost Mean precipitation ─○ River flood ── Heavy precipitation and pluvial flood Wet & Dry ─ Landslide — Aridity — Hydrological drought Agricultural and ecological drought — Fire weather ─ Mean wind speed Severe wind storm Wind Wind — Tropical cyclone Sand and dust storm Snow, glacier and ice sheet Permafrost ─ Lake, river and sea ice \*\* Heavy snowfall and ice storm –○ Hail — Snow avalanche Air pollution weather Other —○ Atmospheric CO₂ at surface —○ Radiation at surface Relative sea level Coastal flood Coastal Coastal erosion ─ Marine heatwave Ocean acidity <u>b</u> 15 NUMBER OF OPEN-OCEAN REGIONS Mean ocean temperature Open Ocean — Marine heatwave Ocean acidity Ocean salinity Dissolved oxygen

## CLIMATE CHANGE IMPACT ON PACIFIC PORTS AND FUTURE SUSTAINABILITY





A.1 It is unequivocal that human influence has warmed the atmosphere, ocean and land. Widespread and rapid changes in the atmosphere, ocean, cryosphere and biosphere have occurred.

Projected changes in extremes are larger in frequency and intensity with every additional increment of global warming





