Marine Management Organisation

IMPACTS AT 1.5°C AND 2°C OF WARMING

DIRECT IMPACTS	1.5°C	2°C	2°C IMPACTS
EXTREME HEAT Global population exposed to severe heat at least once every five years.	14%	37%	2.6X WORSE
ARCTIC SEA-ICE Number of ice-free summers	AT LEAST 1 EVERY 100 YEARS	AT LEAST 1 EVERY 10 YEARS	10X WORSE
SEA LEVEL RISE Amount of sea level rise by 2100	0.40 METRES	0.46 METRES	0.06m MORE

OCEANS	1.5°C	2°C	2°C IMPACTS
CORAL REEFS Further decline in coral reefs	70-90%	99%	UP TO 29% WORSE
FISHERIES Decline in marine fisheries	↓ 1.5 MILLION TONNES	↓ 3 MILLION TONNES	2X WORSE

SPECIES	1.5°C	2°C	2°C IMPACTS
SPECIES LOSS: VERTEBRATES Vertebrates that lose at least half of their range	4%	8%	2X WORSE
SPECIES LOSS; PLANTS Plants that lose at least half of their range	8%	16%	2X WORSE
SPECIES LOSS: INSECTS Insects that lose at least half of their range	6%	18%	3X WORSE

LAND	1.5°C	2°C	2°C IMPACTS
ECOSYSTEMS Amount of Earth's land area where ecosystems will shift to a new biome	7%	13%	1.86X WORSE
PERMAFROST Amount of Arctic permafrost that will thaw	4.8 MILLION KM²	6.6 MILLION KM²	38% WORSE
CROP YIELDS Reduction in maize harvests in tropics	3%	7%	2.3X WORSE

SOURCE: IPCC 2018/AUSTRALIA'S CLIMATE COUNCIL