



Expect the
unexpected



Feb 20th, 2018:
Cyclone Gita

Over 500mm
in February
(2 cyclones)



Same Envy block
June 2023



Boxing Day
Hailstorm 2020

Over 1000 ha's of
apples & pears
badly damaged

Flat top hail structure



Crop protected
but at a cost



V-trellis hail structure



2.2m trays of Gold kiwifruit
lost in Motueka

Zespri Hail Policy
Pay 75% of OGR (\$8.50)
Actual payout: \$3.00 TE

New policy:
Actual orchard costs + 50%
= \$6.76



Other versions of
trellis release

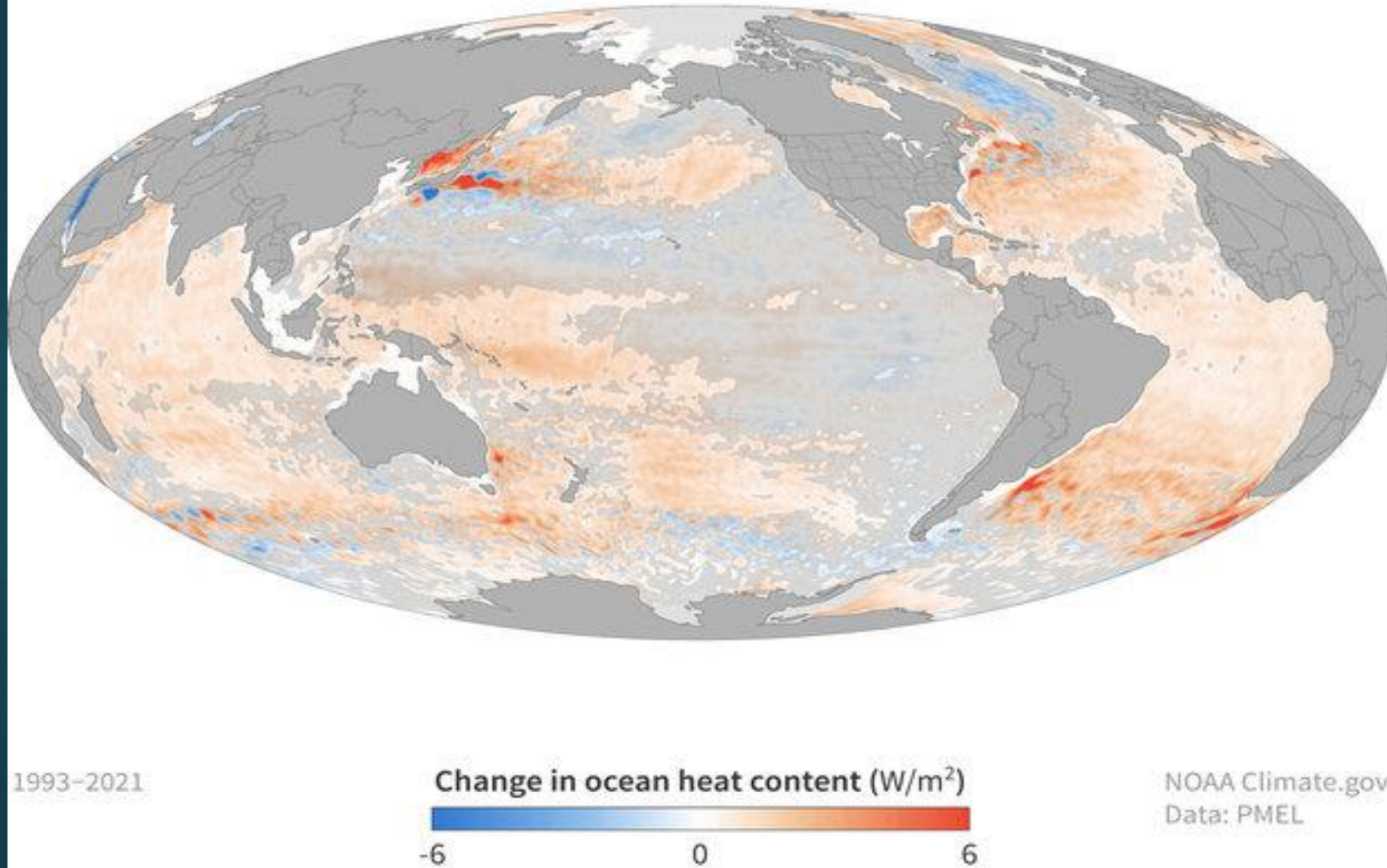


Not immune from failure when certain conditions prevail.

What is happening to our climate?

- Global warming is a reality, 30b tonnes of CO² are released into the atmosphere every year, hangs around between 300 – 1000 years.
- The last nine years (2014–2022) rank as the nine warmest years on record.
- Warmer air holds more water and has more energy than cooler air.

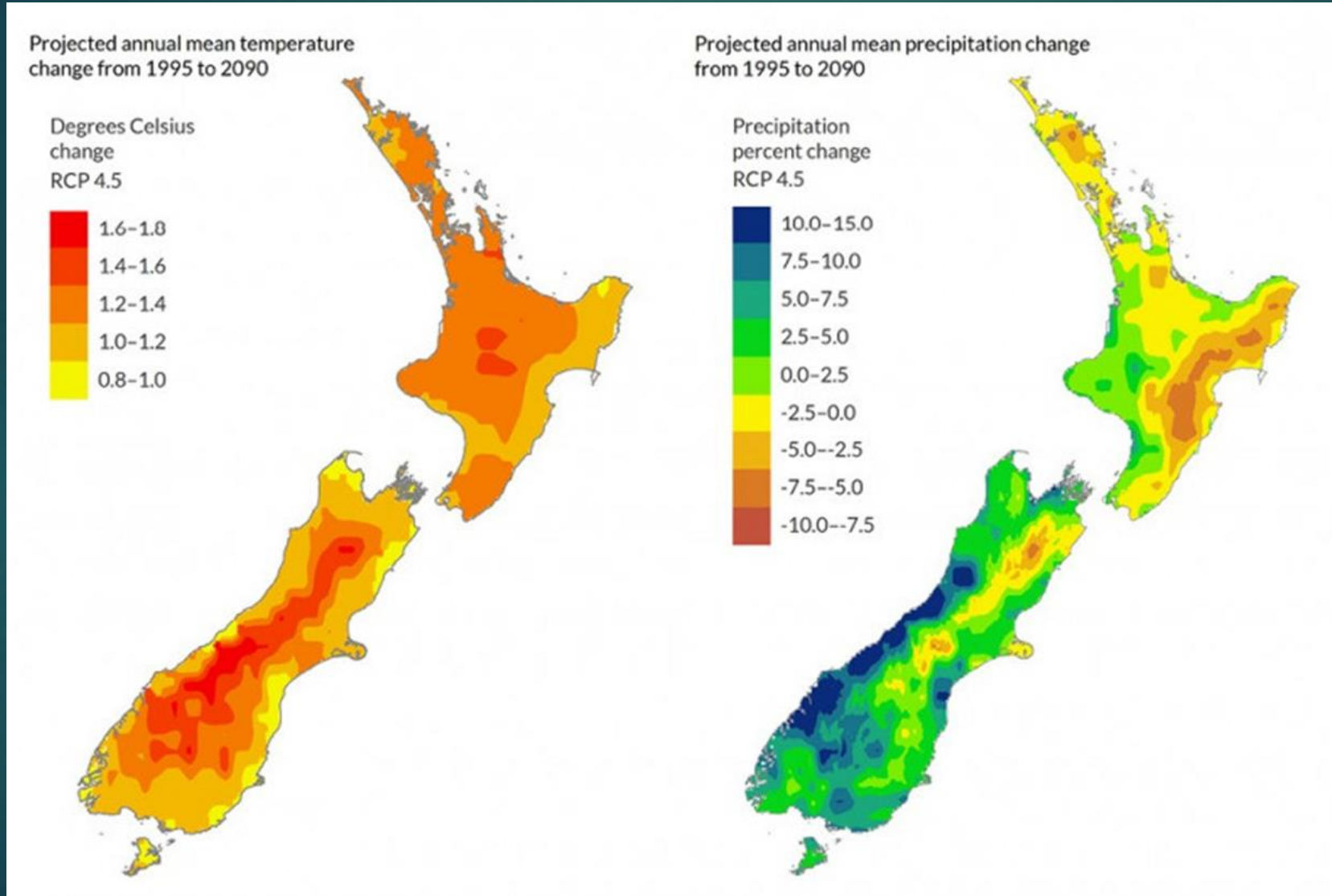
OCEAN HEAT TRENDS (1993-2021)



Probably
skewed by long
stretch of La
Nina

(Dave Bellamy
Plant & Food Research)

Increasing temps: Flooding or Drought?



What does the future hold?

- More volatility and extremes (flooding, hail, heat)
- Disease e.g. European canker plus other biosecurity threats likely to increase with warm & wet
- Trellis structure designs to cope with point 1.
- Can't rely on commercial insurance