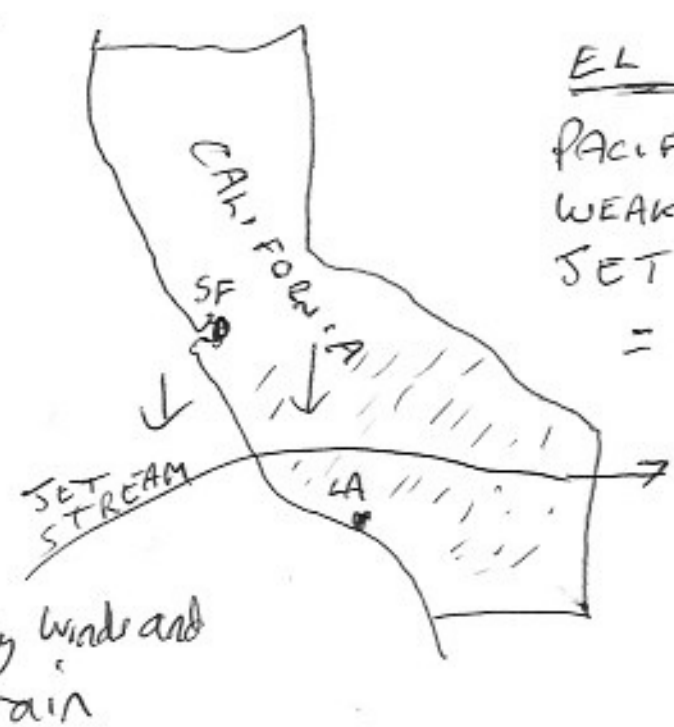


CLIMATE CHANGE

IMPACT OF EL NINO ON CALIFORNIA

PACIFIC OCEAN



EL NINO

PACIFIC OCEAN WARM
 WEAK TRADE WINDS
 SET STREAM MOVES SOUTH
 = Higher winter rainfall
 = Higher annual rainfall
 ≈ 580mm
 Lasts ≈ 1 year

Westerly winds and rain SET STREAM



LA NINA

PACIFIC OCEAN COOL
 STRONG TRADE WINDS
 SET STREAM MOVES NORTH
 = LESS WINTER RAINFALL esp in south
 = lower annual rainfall
 ≈ 280mm
 Lasts ≈ 1-3 years

Climate change / global warming =

- More frequent el Niño / la Niña events
- More intense " " "
- long lasting " " "

- ∴ more extreme weather
- = more droughts = more WILDFIRES
- = more extreme rainfall = more FLOODS / MUD FLOWS