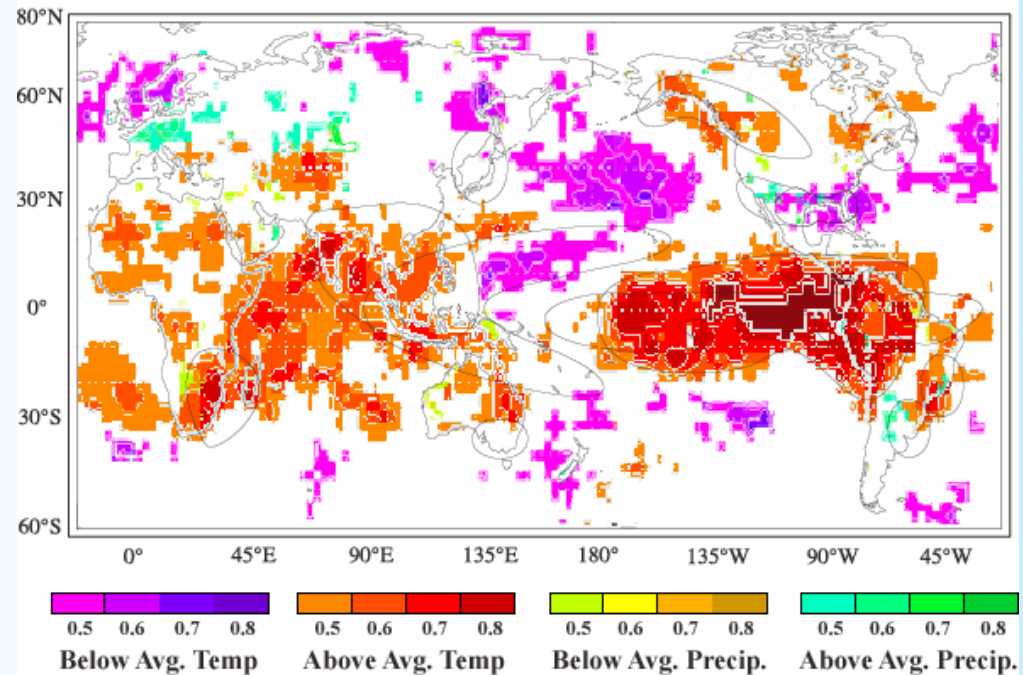
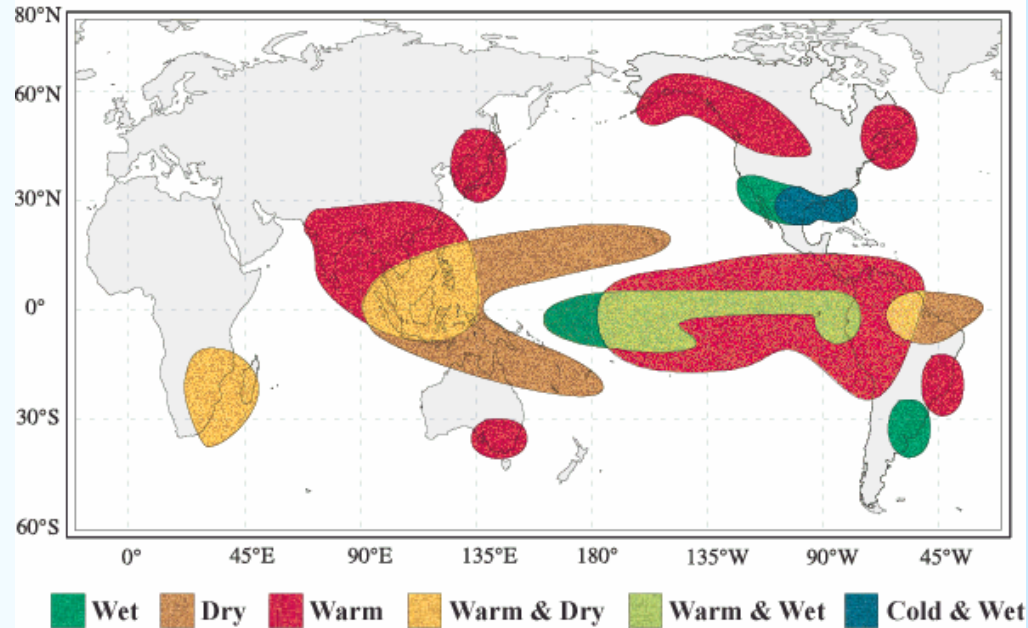


Warm episode relationships Dec.-Feb.

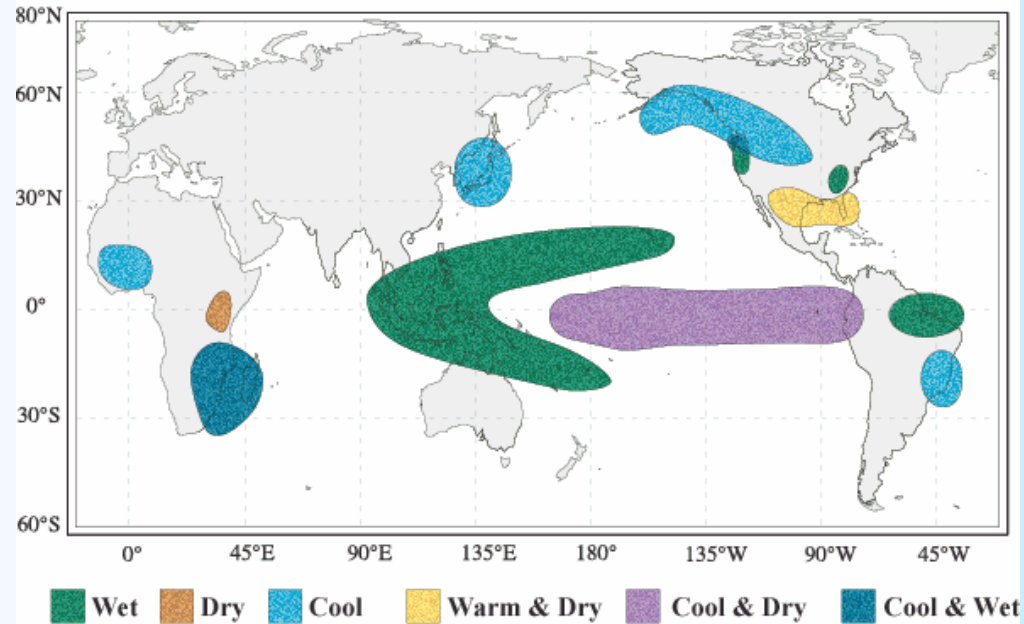
Schematic of precipitation and temperature regions during DJF El Niño

Composite of “Above & Below - Normal” precipitation and temperature probabilities for DJF associated with El Niño (max. 10 NINO3 DJF 1950-1994)

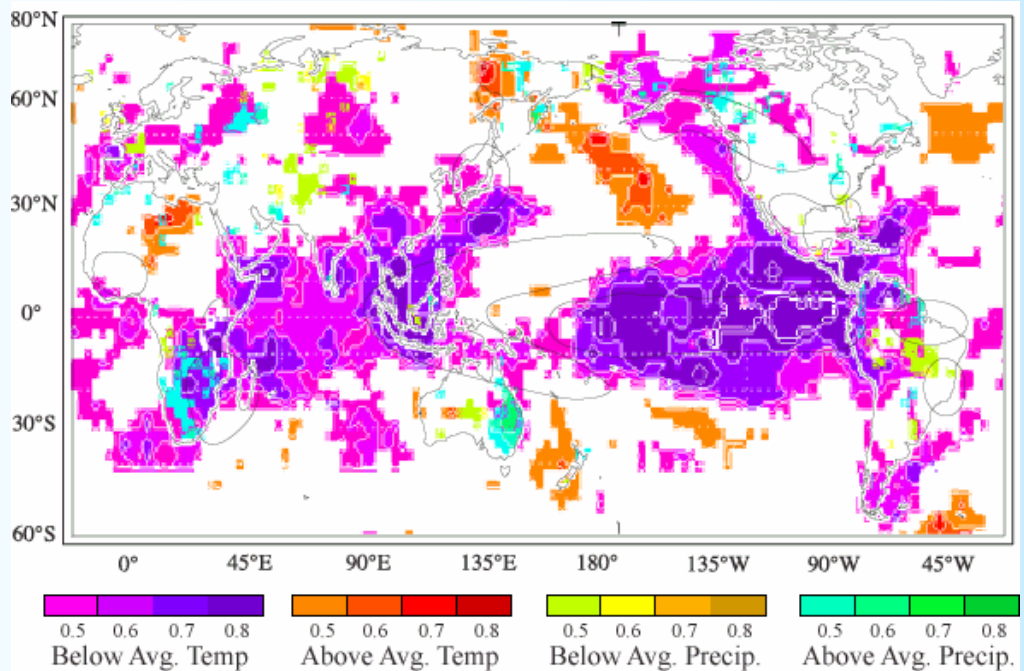


Cold episode relationships DJF

Schematic of precipitation and temperature regions during DJF La Niña



Composite of “Above & Below - Normal” precipitation and temperature probabilities for DJF associated with La Niña (min. 10 NINO3 DJF 1950-1994)



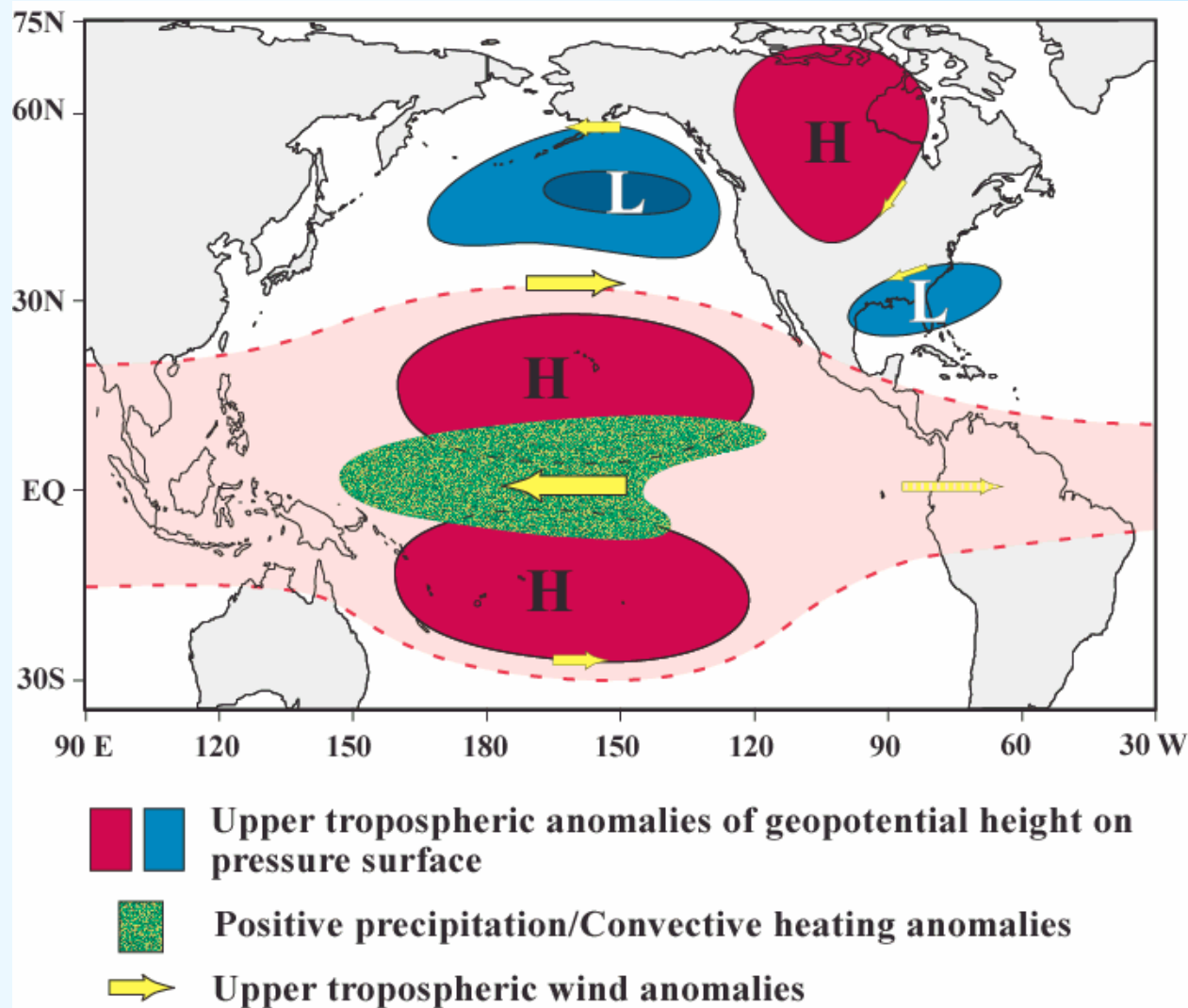
Pacific - North American sector

Response to El Niño

La Niña: opposite sign to a first approximation
(but weaker, esp. over N. America)

Mid-latitude response:
barotropic, same sign
through depth of
troposphere

Tropical response:
baroclinic, opposite sign
at low levels



Refs: J.M. Wallace et al 1998,
K. Trenberth et al 1998

Response to ENSO: storm tracks and subtropical jet

