

# ACCESS-S Workshop

**MODULE: Pacific climate - oceans** 





## **Topics in this module**

- Sea level
- NINO indices

#### **Expected learning outcomes**

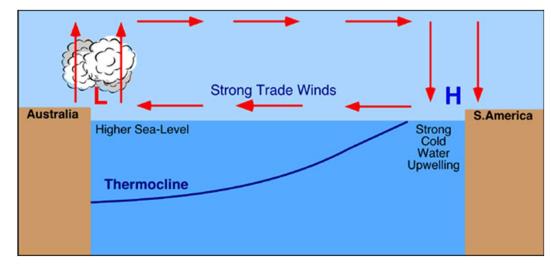
 Understanding of the general climate in the Pacific

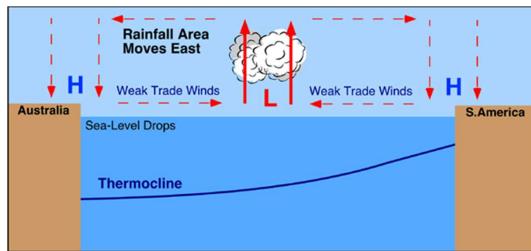
These outcomes are important for understanding and interpreting ACCESS-S outputs and products such as the tropical cyclone outlook and ENSO



### **Sea Level across the Pacific**

- In ENSO neutral conditions, trade winds pile up warm water in the western pacific resulting in higher sea levels (~0.5 metre higher than the far eastern Pacific)
- In El Niño, the weakening trade winds causes the warm water to slump and therefore sea level drops also





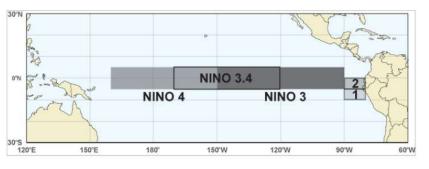


 Within the NINO34 region, sea level is typically positive in El Niño and negative in La Niña.

Msla (cm)

1993-12

1998-12



Sea Level Anomalies over the Nino 3.4 region 10 El nino Neutral La nina -10 © CLS/CNES, 2016

2003-12

VEAD

2008-12

2013-12

© Commonwealth of Australia 2021. Bureau of Meteorology



## 2015/16 El Niño sea-surface height anomalies

