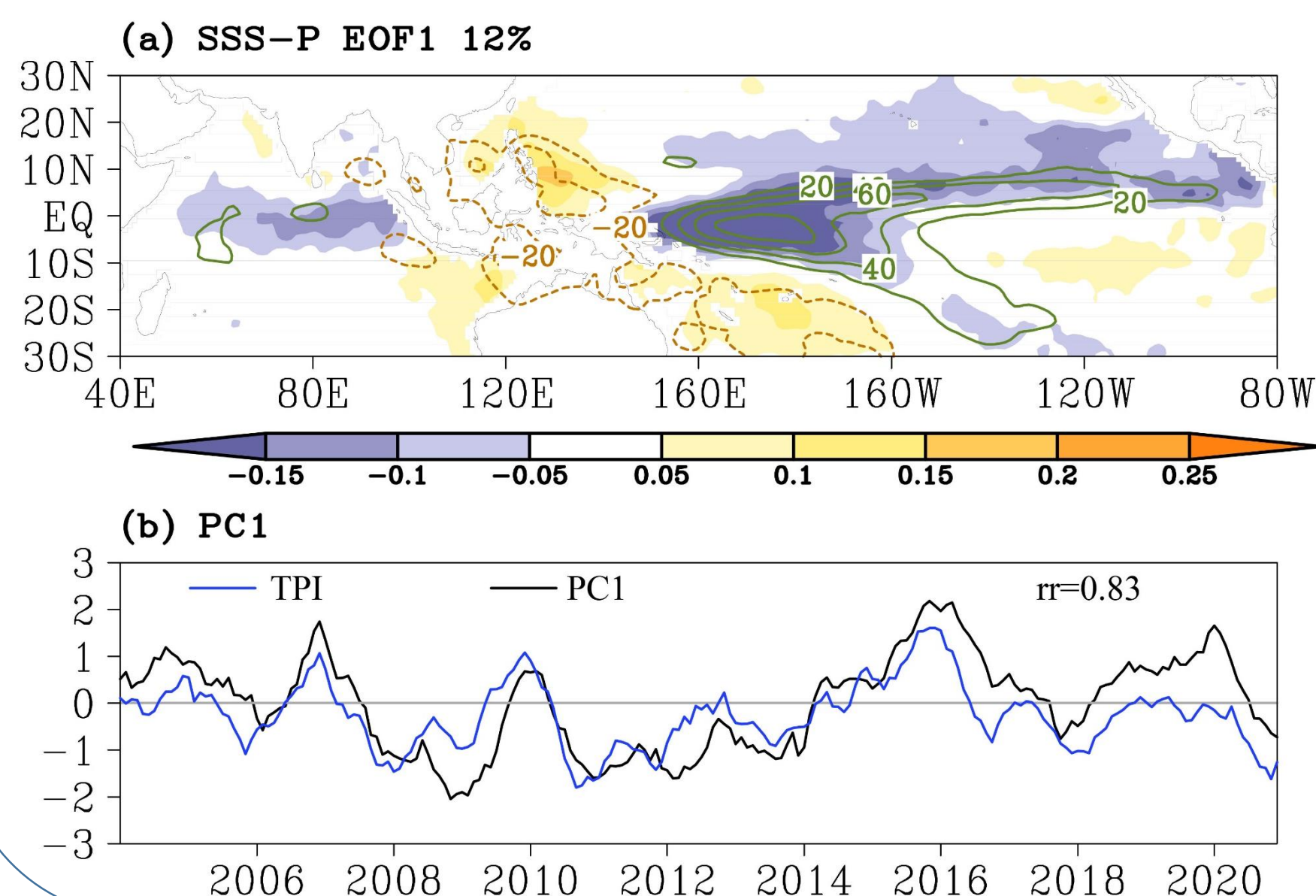


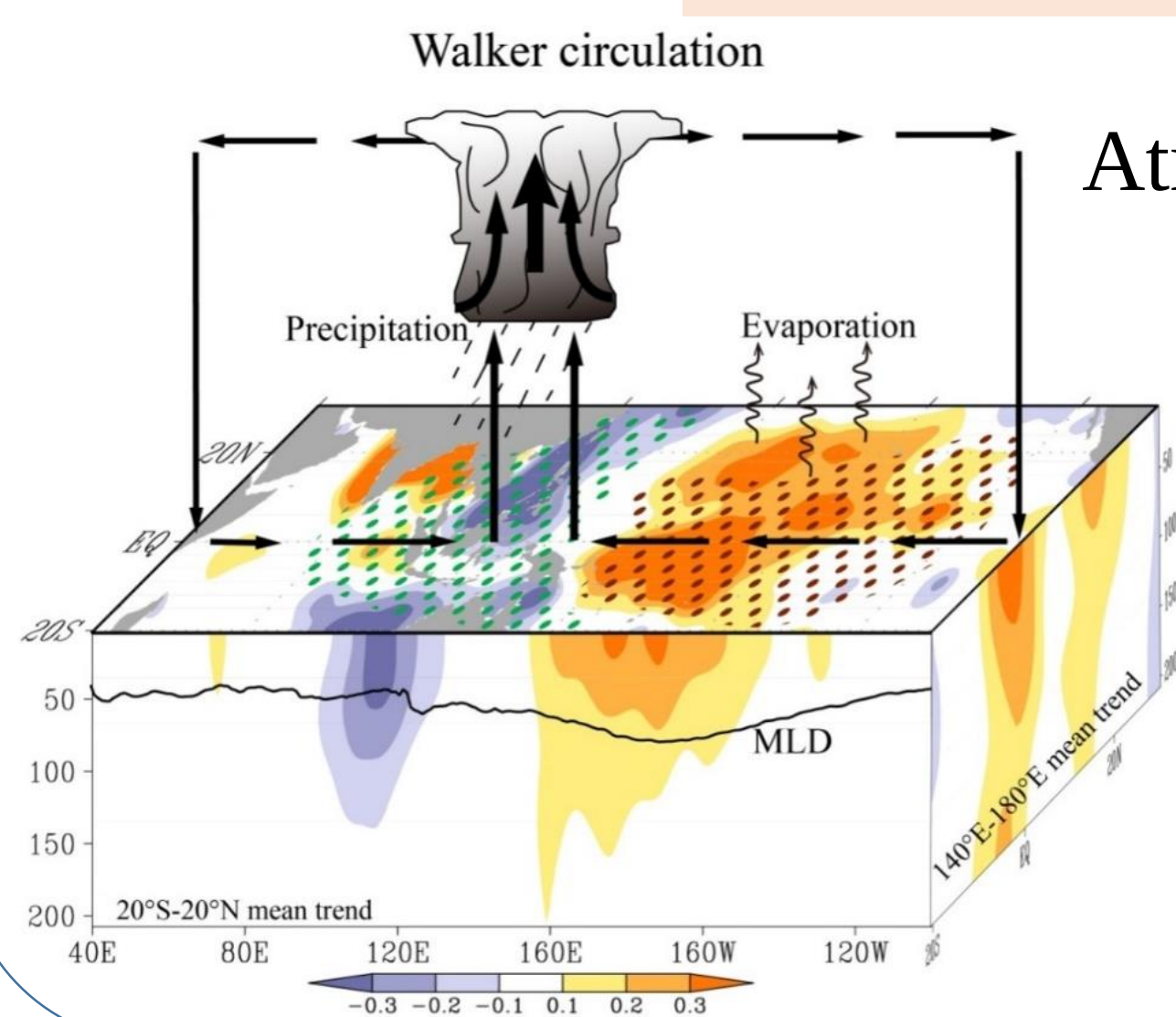
Sea surface salinity mode in the Indo-Pacific and its relationship with climate Change

Argo observed SSS triple mode

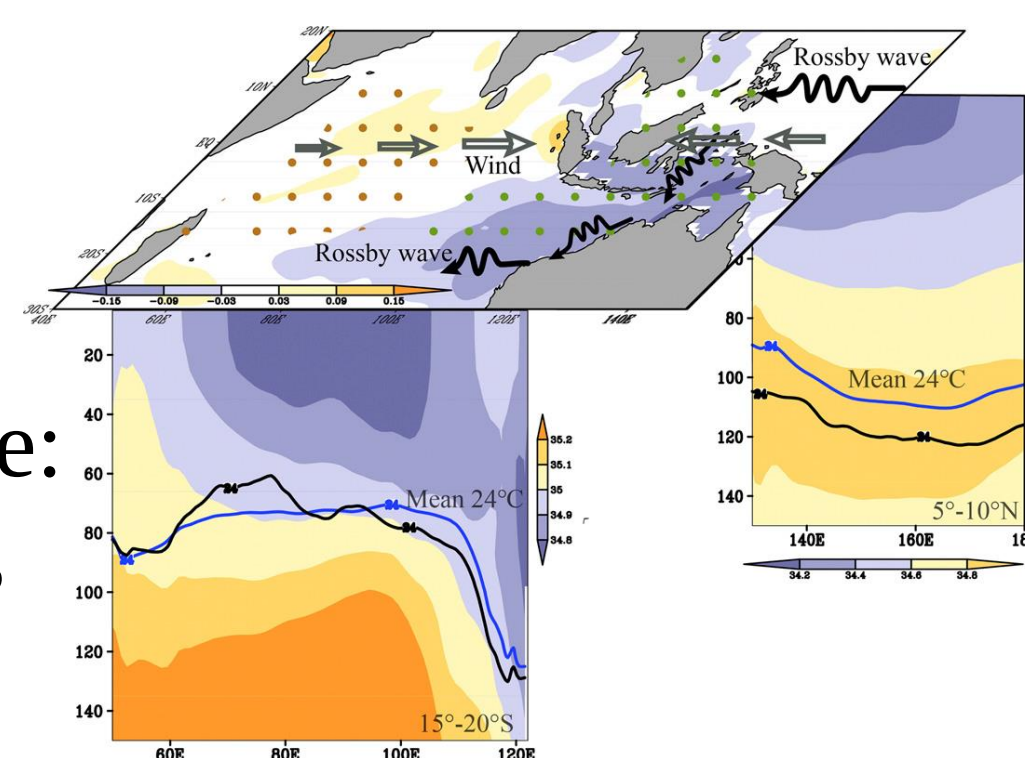


- A sea surface salinity triple mode has been revealed in the Indo-Pacific, which can be explained by precipitation anomaly.
- IPO induced Indo-Pacific Walker Circulation change and its related ocean wave processes dominate the sea surface salinity triple mode.

Indo-Pacific fresh water exchange process



Oceanic bridge:
ITF & Waves



Modulate the long-term trend

- The IPO leads to a ~40% offset of SSS radiative-forced trend in the western tropical Pacific and ~170% enhancement of the trend in the southeastern Indian Ocean since the mid-20th century.

