

## **Convective observations over the tropical oceans**

Convection over the tropical oceans can be categorized into three SST regimes: stratocumulus over cooler SST, trade wind cumulus and towering cumulus across strong SST gradients, and cumulonimbus and mesoscale convective systems over the warmest SST. Each regime is important to weather and climate for different reasons and necessitate different observing strategies. This talk will briefly discuss past efforts in observing these convective regimes with field campaigns and satellites and will suggest some paths forward on using new technologies and cooperative efforts to better understand processes each regime.