Role of surface flux on the propagating and non-propagating ISO events in the Maritime Continent

Surface Flux Observations for YMC 2019

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ABSTRACT

NOAA PSD will participate in the 2019 YMC cruise on the Baruna Jaya-1 research vessel. We will install a near-surface, in situ observing system to obtain bulk meteorological data (wind speed/direction, air temperature and humidity, SST, rainrate) and solar/IR flux data to characterize the surface energy budget. We will also install a Vaissala balloon sounding system for rawinsondes profiling. PSD will supply the sondes and the Helium. A Vaisala CL25K cloud ceilometer will be supplied to record cloud fraction and cloud base height statistics. The combination of surface fluxes, clouds, and rawinsondes profiles will allow investigators to link synoptic and mesoscale disturbances with their effects on forcing of ocean mixing processes.