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SeaWiFs Chlorophyll as a proxy of oceanic dynamics intraseasonal variability

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SeaWiFs timeseries shows high intraseasonal variability of surface chlorophyll in the tropical Indian Ocean. This region is characterized by an open ocean upwelling due to local Ekman pumping, which maintains the mixed layer shallow and responsive to atmospheric forcing in particular to the intraseasonal Madden Julian Oscillation. Here, we present how the combination of satellite chlorophyll observations and bio-physical simulations can give insight on dynamical processes at play in oceanic intraseasonal variability.