Mengenal Indian Ocean Dipole (IOD) dan dampaknya pada perubahan iklim

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Abstrak

Coupling between atmosphere and oceans can affect the global climate change. In the Indian Ocean, there is natural climate variation phenomenon caused by coupling between atmosphere and oceans, called the Indian Ocean Dipole (IOD). There are two types of IOD phase based on differences condition of the Sea Surface Temperature (SST) in western and eastern Indian Ocean, i.e. positive and negative IOD. When positive IOD occurs, the SST in western Indian Ocean is warmer than usual while SST in Sumatera is colder than usual, and vice versa for negative IOD. IOD can be detected using Dipole Mode Index (DMI). The phenomenon of drought on one side of Indian Ocean and heavy rains on the other side is a direct impact of IOD phenomenon, IOD can also affects to the productivity of the oceans, fisheries, ecosystems and carbon budget.