

Role of Oceans in the Global Warming

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It is now well known and accepted that the global climate is changing at a faster rate. The changes in the rainfall patterns, cycle of major oscillations in the climate system, sea level rise, rising temperatures and melting of glacier are manifestations of this change. This change is partly associated with the natural cycle of changes and partly attributed to the anthropogenic interventions. Nevertheless, Oceans, play a crucial role in the global warming. It is not surprising as more than one third of the earth's surface is covered by Oceans. In this lecture I will talk about how the present and past climate systems were maintained and how the global change is affecting the Oceans, which in turn is reflected in the major climate systems. I also present an account of a few studies which are aimed at containing the effects of global changes through accelerated/ bio-geo-chemical processes.