

**Seminar on Monitoring of Air Quality and
Acid Rain in Bangladesh.**

**Air mass movement in our region and
possible transport of Pollutants**

by

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ABSTRACT

As humans migrate from one region to another and in this context it may be mentioned that the present population of Bangladesh have settled here from all directions - north, south east and west. Similarly there is a three dimensional movement of air throughout the globe. The release of CFC's in the populated region of the globe is causing ozone hole in the antarctic. Regarding weather, it is said that the movement of a butterfly in the Southern America can affect rainfall in Bangladesh. As a matter of fact a phenomenon called El Nino, when the sea temperature in the South Pacific near the coast of Peru suddenly rises does infact affect the rainfall in Bangladesh.

Bangladesh Climate is governed by the monsoon, where the wind direction reverses completely with season. In winter, the prevailing wind is from north east and hence pollutants even from Gobi desert can affect Bangladesh. During the premonsoon season say during March to May the wind can come from North west and pollutants even from Balucchistan desert can affect us. Thus sometime we experience hot "Loo" wind in this season. In summer the wind is predominantly from southwest or southeast which mainly comes from the sea and our sea is perhaps free from lot of pollution and hence Bangladesh experiences less pollution during summer. However, the problem of acid rain needs to be investigated. But there is also vertical transport of air as there are sources and sinks in the atmosphere. These problems need to be investigated using three dimensional General Circulation Model for which very fast computer is needed.
