**Impacts of Climate Change on Marine Fisheries of India**

**Monika Makwana**

Integrated M Phil- PhD Programme in Habitat Studies

TISS, Mumbai

**Abstract**

The past few decades have witnessed a substantial increase in temperature. 90% of this generated heat is absorbed by the oceans and sea, resulting in temperature rise. Increasing sea surface temperature (SST) is the primary indicator of climate change and it plays a major role in intensification and formation of cyclones. Both are very likely to impact the marine fisheries by influencing the growth, reproduction or migration patterns. To further understand, analyse and establish the relationship amongst SST, cyclone and fish catch, this study examines the impact of climate extreme on pelagic fisheries of marine ecosystem along the coast of four maritime states, viz., West Bengal, Orissa, Tamil Nadu, and Andhra Pradesh. An overall rise in the range of SST was observed along the coast, while the annual fish catch range showed a drastic increase over the past 68 years.