

**Vigyan Samachar: MoES News**  
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**Webinar Series: Talk on complex marine ecosystem and living resources in India and their preservation**

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The Indian Institute of Tropical Meteorology (IITM), Ministry of Earth Sciences (MoES), is organizing an Earth Science Popular Lecture webinar series in coordination with other MoES institutes in the country.



Dr. G.V.M. Gupta, Scientist, Centre for Marine Living Resources and Ecology (CMLRE), Ministry of Earth Sciences (MoES), Kochi, in an engagingly delivered lecture, spoke on the complex marine ecosystem and living resources in India. Highlighting the prominently deteriorating the marine ecosystem due to climate change such as sea-level rise, ocean acidification, and extreme weather events - subsequently, changes in the

distribution of aquatic species leading to migration due to community structures, and a decrease in economic productivity.

Dr. Gupta said that direct and indirect pressure arising from different types of economic development and associated activity have adverse impacts on coastal and marine biodiversity across the country.

There is an immediate need for sustainable development goals to create a framework to sustainably manage and protect marine and coastal ecosystems from pollutants. He also added that enhancing conservation and the sustainable use of ocean-based resources through international law would help decrease some of the challenges our oceans are facing.

CMLRE uses ecosystem monitoring and modeling efforts to develop management strategies in the country, **including mapping of living resources**, preparing an inventory of commercially exploitable living marine resources, their optimum uses, which in turn contributes to a better marine ecosystem. Dr. Ravichandran suggests that serious efforts are needed to address the growing pressures on ocean resources, to ensure global food security and secure livelihoods for future generations.

Dr. Gupta has 21 years of research experience in Marine. He led many research projects on estuarine and lagoon ecosystems apart from coastal pollution. He has received the Earth System Science Award, 2017. He has more than 40 peer-reviewed publications