Physical Research Laboratory

Tuesday Seminar

Nitrogen dynamics in ecosystems with contrasting climate

Abstract

Study of biogeochemical cycling of elements is very important in understanding the changes and responses of ecosystems towards the changing climate. Elemental circulation, its amount and availability within an ecosystem defines the health of ecosystem and species present in it. Nitrogen (N) is one such element, which is required by all the species, as it serves as a growth limiting nutrient. Plants also require N for photosynthesis: a process to fix atmospheric CO_2 into biomass, thus acts as carbon sink. N, if present in excess, can cause severe damage to ecosystems by emitting greenhouse gases (N_2O) in the atmosphere, polluting water bodies (eutrophication) and result in biodiversity loss.

In my talk, I will discuss about biogeochemical cycling of N in two different terrestrial ecosystems. These ecosystems differ from each other in terms of vegetation, land-use and climate. I will also compare the N dynamics within these ecosystems to address the differences and controls of N cycle.

Speaker: **Ms. Niharika Sharma**
SRF, GSDN

Date	Time	Venue
24-April-2018	16:00 Hrs	Ground Floor Lecture Hall

All are invited to attend and participate in discussion

A .K. Sudheer, Geosciences Division