

Govt. of India
Department Space
Indian Space Research Organization
Indian Institute of Remote Sensing

1049th IIRS Outreach Programme
On
“Mapping and Monitoring Greenhouse Gases through Space”

September 02, 2025

Lecture Schedule

Inaugural session: Formal welcome to all workshop participants			0920-0930hrs.
1	Space based measurements of GHGs: Principles and linkage to Climate Change	Dr. R.P. Singh, Director, Indian Institute of Remote Sensing, ISRO, Dehradun	0930-1025 hrs.
2	Emission inventories for air pollutants and GHGs	Prof. (Dr.) Gufran Beig, FASc. Sir Ashutosh Mukherjee Chair Professor National Institute of Advanced Studies (NIAS), Bengaluru	1030-1110 hrs.
3	Retrieval algorithms for greenhouse gas monitoring	Prof. (Dr.) Andre Butz, Heidelberg University Institute of Environmental Physics, Germany	1115-1155 hrs.
4	Detection of CO ₂ / using airborne and space-borne imaging spectroscopy	Dr. Mehul Pandya, Scientist, Space Application Centre, ISRO, Ahmedabad	1200-1240 hrs.

Break			
5	Methane mapping & monitoring through Space	Dr. Asfa Siddiqui , Scientist, IIRS, Dehradun	1415-1455 hrs.
6	Demonstration: Open source datasets & platform for monitoring greenhouse gases	Dr. Poonam S. Tiwari / Ms. Yamini Aggarwal Scientist, IIRS, Dehradun / Ph.D Scholar, IIT Roorkee, Roorkee	1500-1545 hrs.