









Various Scenarios of Sea-Level Rise

CLIMATE CO CENTRAL

Melbourne

4°C

Image © 2015 Aerometrex
Data SIO NOAA U.S. Navy NGA GEBCO
Image Landsat
Image © 2015 TerraMetrics

Google earth

choices.climatecentral.org







The global mean temperature is determined by the delicate balance between absorbed solar radiation and emitted earth's radiation

absorption of solar radiation (a function of temperature)
= earth's emission to space (a function of Temp)



2. When and where was the first United Nations Conference on the Environment held? United Nations Environment Program (UNEP) was created following this. The chair of this conference also happened to be the first Director of UNEP upon its formation.

A. Stockholm

B. London

C. New York





THE ENVIRONMENT

Saturday, 23 August 2025

The Lawrence School, Lovedale, Ooty



Certificate

Inter-School Quiz Competition on
"Climate Change and the Environment"
23rd August 2025
at
The Lawrence School, Ooty

This is to certify that _____
was awarded the First Prize in the
INTER-SCHOOL QUIZ "CLIMATE CHANGE AND THE ENVIRONMENT" - 2025
organized by the Director Centre for Climate Change, Ooty
at The Lawrence School, Lovedale, Ooty
on 23rd August 2025.

For Climate Change
at Science

Saturday, 23 August 2025
The Lawrence School, Lovedale, Ooty

INAUGURATION

DR. JEEVAN
FORMER SECRETARY, MINISTRY OF ENVIRONMENT, GOVERNMENT OF INDIA
CURRENTLY THE VICE-CHANCELLOR, THE LAWRENCE SCHOOL, OOTY



THE ENVIRONMENT.

Saturday, 23 August 2025

The Lawrence School, Lovedale, Ooty

INAUGURATION

DR. RAJEEVA
FORMER SECRETARY, MINISTRY OF ENVIRONMENT & FORESTS, GOVT OF INDIA
& CURRENTLY CHAIRMAN, DIVYAKA CENTRE FOR CLIMATE CHANGE, LOVEDALE, OOTY



Saturday, 23 Aug
The Lawrence School, Lovedale,

IN
GURATION
M. RAJEEVAN
FORMER
MINISTRY OF EARTH SCIENCE
ANCELLOR OF ATRIA UNIV



The Lawrence School, Lovedale, Ooty

INAUGURATION

DR. SURESH K. JEEVAN

FORMER SECRETARY, EARTH SCIENCE

& CURRICULUM DEVELOPMENT, ATMA

BENGALURU



INTER SCHOOL QUIZ COMPETITION ON CLIMATE CHANGE AND THE ENVIRONMENT.

Saturday, 23 August 2025
St. Xavier's School, Ooty

What are Aerosols?

Aerosols are tiny suspended particles in the atmosphere. They can be either solid or liquid and vary in size ranging from a few nanometres to several micrometres.

Aerosol size and its effects

Scattering

Where does Aerosol come from?

Black Carbon - The most critical

- Black Carbon are highly absorbing aerosols which are responsible for the absorption of heat from the sun.
- BC absorbs incoming solar radiation very efficiently, warms the atmosphere, warms the ground, warms the oceans.
- It is the strongest contributor to current global warming.

How Black Carbon affects Earth and

How to reduce Black Carbon?

Lifetime of Black Carbon

Reducing Black Carbon

MEASURING AIRBORNE PARTICLES

Particle into Liquid Sampler (PILS)

Dust Trak

Dust Sampler (Filter Based)

Aerosol Chemical Speciation Monitor (ACSM)

Light Detection and Ranging (LIDAR)



