

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Environmental Science - NOC:Climate Change Science

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Co-ordinating Institute - IISc - Bangalore

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction
- Lecture 2 - Global Mean Temperature
- Lecture 3 - Blackbody Radiation
- Lecture 4 - Properties of Real Surfaces
- Lecture 5 - Planetary Albedo
- Lecture 6 - Simple Energy Balance Model
- Lecture 7 - Multiple-Equilibrium States
- Lecture 8 - General Circulation Models
- Lecture 9 - Feedbacks in the Climate System
- Lecture 10 - Feedback Analysis
- Lecture 11 - Cloud Feedbacks
- Lecture 12 - Cloud Feedbacks (Continued...)
- Lecture 13 - Radiative transfer in gases
- Lecture 14 - Radiative Transfer (Continued...)
- Lecture 15 - Radiative Transfer (Continued...)
- Lecture 16 - Global warming potential
- Lecture 17 - Ozone depletion
- Lecture 18 - Ozone depletion (Continued...)
- Lecture 19 - Montreal Protocol
- Lecture 20 - Two-layer model
- Lecture 21 - Meridional variation
- Lecture 22 - Paleoclimate
- Lecture 23 - Paleoclimate (Continued...)
- Lecture 24 - Last ice age
- Lecture 25 - Last ice age
- Lecture 26 - Atlantic meridional ocean circulation
- Lecture 27 - Simulation of AMOC
- Lecture 28 - Simulation of AMOC (Continued...)
- Lecture 29 - AMOC during deglaciation

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- Lecture 30 - Dansgaard-Oeschger events
- Lecture 31 - Theory of Ice ages
- Lecture 32 - Milankovitch Theory
- Lecture 33 - Milankovitch Theory (Continued...)
- Lecture 34 - Milankovitch Theory (Continued...)
- Lecture 35 - Stochastic resonance
- Lecture 36 - Glacial to interglacial transition
- Lecture 37 - Simulation of Glacial to interglacial
- Lecture 38 - Simulation of glacial to interglacial
- Lecture 39 - Snowball earth
- Lecture 40 - Snowball earth (Continued...)
- Lecture 41 - Simulation of snowball earth
- Lecture 42 - Snowball earth cycle
- Lecture 43 - Impact of aerosols on climate
- Lecture 44 - Relative roles of CO2 and aerosols
- Lecture 45 - Kyoto Protocol
- Lecture 46 - climate models
- Lecture 47 - Approximations in climate models
- Lecture 48 - How good is the model simulation
- Lecture 49 - Model biases
- Lecture 50 - The impact of model resolution
- Lecture 51 - Cascade of uncertainty
- Lecture 52 - Extreme events
- Lecture 53 - Humid heat waves
- Lecture 54 - Extreme rainfall
- Lecture 55 - Monsoons
- Lecture 56 - Simulation of monsoon
- Lecture 57 - Why is Venus hot ?
- Lecture 58 - Venus energy balance
- Lecture 59 - Denial of global warming
- Lecture 60 - Wrap up