

Below is a list of tentative topics for writing a review paper or for preparing a term project.

Note: A review is NOT just a compilation of what people have done. You must have your own understanding of the topic, and construct the paper/ppt using findings from existing studies.

1. Global biogeochemical cycling and globalization of carbon. Choose CO<sub>2</sub> or CH<sub>4</sub> or (CO and VOC).
2. Global biogeochemical cycling and globalization of nitrogen. Choose N<sub>2</sub>O or (NO<sub>x</sub> and NH<sub>4</sub>).
3. Global biogeochemical cycling and globalization of sulfur (SO<sub>2</sub> and SO<sub>4</sub> together).
4. Satellite remote sensing to study emissions and pollution transport.
5. Recent trend of tropospheric oxidants (HO<sub>x</sub> and Ox) and its relation to globalizing air pollution.
6. Regional transport of ozone and precursors within Asia. Focus on ozone.
7. Outflow of ozone and precursors from Asia. Focus on ozone.
8. Inflow of ozone and precursors to Asia. Focus on ozone.
9. Global transport of ozone and precursors. Focus on ozone.
10. Regional transport of PM within Asia.
11. Outflow of PM from Asia.
12. Inflow of PM to Asia.
13. Global transport of BC and its relation to climate change.
14. Past climate change and its impacts on pollution transport.
15. Future climate change and its impacts on pollution transport.
16. Uncertainties in current assessment of pollution transport.
17. Emerging pollution and its globalization. Should discuss with me to define the pollutants.
18. International trade: impacts on global atmospheric environment and climate.
19. Domestic pollution control strategies in light of trade and pollution transport.
20. International collaboration strategies in light of trade and pollution transport.
21. Pollution-climate interactions over the course of carbon neutrality.
22. Interconnections between economics, energy and environment.
23. Environment nexus (co-benefits and tradeoffs).
24. Game theory of sustainable development.