



Monash Weather and Climate seminar series

SPECIAL SEMINAR: Tuesday 10th November 12pm

Pollution transport by weather systems: Interactions between boundary layer and synoptic scale processes

Victoria Sinclair
(University of Helsinki, Finland)

How efficient are mid-latitude weather systems at transporting pollutants out of the boundary layer? Can we estimate, in advance, the amount of pollution a given weather system will ventilate out of the boundary layer? These questions are addressed in this seminar. First, I will show that there are three, inter-linked physical processes that lead to the eventual transport of pollutants out of the boundary layer. I will then show results from sensitivity studies which investigate which of these processes is the controlling factor. Finally, I will present a diagnostic to estimate the amount of boundary-layer ventilation. These results have been obtained by simulating a range of idealised, baroclinic, life cycle experiments with the Met Office Unified Model.

Seminar held in Room 345, Building 28.

All Welcome!

For more information, contact Laura Davies
(room 215, 9902 0110)