

- 3) Describe four meteorological factors that frequently occur together during summer and early fall over the Los Angeles Basin that set the stage from a major buildup of photochemical smog, being certain to explain how each factor would contribute to a buildup. You can neglect seasonal differences in the input of primary pollutants that are the ultimate cause of photochemical smog.



[Los Angeles Basin shrouded by smog.](#)

*Photo: Robert S. Donovan*

- 4) Paleoclimate data reveal that recent ice ages in the northern hemisphere coincide with climate regimes having colder summers in high latitudes. Explain why periods of glacial advance in the higher latitudes of the Northern Hemisphere tend to occur with colder summers, but not necessarily with colder winters.



[Glacial maximum 15,000 years ago](#)