

ACADEMIC READING EXAMPLE

Read the free sample text below which is taken from ieltsishelpnow.com Academic Practice Test 2 and then do the question on the following page. The answers are on the page following the questions.

In the 1950's, pilots traveling on weather reconnaissance flights in the Canadian high Arctic reported seeing bands of haze in the springtime in the Arctic region. It was during this time that the term "Arctic haze" was first used, referring to this smog of unknown origin. But it was not until 1972, that Dr. Glenn Shaw of the Geophysical Institute at the University of Alaska first put forth ideas of the nature and long-range origin of Arctic haze. The idea that the source was long range was very difficult for many to support. Each winter, cold, dense air settles over the Arctic. In the darkness, the Arctic seems to become more and more polluted by a buildup of mid-latitude emissions from fossil fuel combustion, smelting and other industrial processes. By late winter, the Arctic is covered by a layer of this haze the size of the continent of Africa. When the spring light arrives in the Arctic, there is a smog-like haze, which makes the region, at times, look like pollution over such cities as Los Angeles.

This polluted air is a well-known and well-characterized feature of the late winter Arctic environment. In the North American Arctic, episodes of brown or black snow have been traced to continental storm tracks that deliver gaseous and particulate-associated contaminants from Asian deserts and agricultural areas. It is now known that the contaminants originate largely from Europe and Asia.

Arctic haze has been studied most extensively in Point Barrow, Alaska, across the Canadian Arctic and in Svalbard (Norway). Evidence from ice cores drilled from the ice sheet of Greenland indicates that these haze particles were not always present in the Arctic, but began to appear only in the last century. The Arctic haze particles appear to be similar to smog particles observed in industrial areas farther south, consisting mostly of sulfates mixed with particles of carbon. It is believed the particles are formed when gaseous sulfur dioxide produced by burning sulfur-bearing coal is irradiated by sunlight and oxidized to sulfate, a process catalyzed by trace elements in the air. These sulfate particles or droplets of sulfuric acid quickly capture the carbon particles, which are also floating in the air. Pure sulfate particles or droplets are colourless, so it is believed the darkness of the haze is caused by the mixed-in carbon particles.

The impact of the haze on Arctic ecosystems, as well as the global environment, has not been adequately researched. The pollutants have only been studied in their aerosol form over the Arctic. However, little is known about what eventually happens to them. It is known that they are removed somehow. There is a good degree of likelihood that the contaminants end up in the ocean, likely into the North Atlantic, the Norwegian Sea and possibly the Bering Sea — all three very important fisheries.

Currently, the major issue among researchers is to understand the impact of Arctic haze on global climate change. The contaminants absorb sunlight and, in turn, heat up the atmosphere. The global impact of this is currently unknown but the implications are quite powerful.

Questions 22 – 27

Complete the summary relating to Arctic Haze below.

Choose your answers from the box below the summary and write them in boxes 22 – 27 on your answer sheet.

NB There are more words than spaces, so you will not use them at all.

<i>Example</i>	<i>Answer</i>
_____ that the origins of spring, arctic haze, first seen over the ice cap...	Theories

(eg) _____ that the origins of spring, arctic haze, first seen over the ice cap in the 1950s, came from far away were at first not (22) _____. This haze is a smog formed in the dark, arctic winter by pollution delivered to the Arctic by storms (23) _____ in Europe and Asia. It is known to be a recent phenomenon as proof from (24) _____ shows it only starting to occur in the 20th Century. The smog consists of sulphates and carbon, the latter creating the (25) _____ of the haze. Due to lack of research, the final destination of the pollution is unknown but it probably ends up in the (26) _____ and therefore into the food chain. Scientists are presently more worried about the (27) _____ effect it has on climate change.

burning	terrible	ice cores	valid	certain
originating	sea	destroying	theories	unknown
agriculture	decided	bird life	dissipating	accepted
gases	darkness	air	density	

ANSWERS

22. Accepted

23. Originating

24. Ice cores

25. Darkness

26. Sea

27. Unknown

