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https://www.100test.com/kao_ti2020/129/2021_2022__E5_85_A8_E5_9B_BD_E8_81_8C_E7_c91_129362.htm 例题解析：passage

1 Soot (煤灰) and Snow : a Hot Combination New research from NASA scientists suggests emissions of black soot alter the ways sunlight reflects off snow . According to a computer simulation , black soot may be responsible for 25 percent of observed global warming over the past century . Soot in the higher latitudes of the Earth , where ice is more common , absorbs more of the sun ' s energy and warmth than an icy, white background . Dark-colored black carbon , or soot , absorbs sunlight, while lighter colored ice reflects sunlight . Soot in areas with snow and ice may play an important role in climate change . Also , if snow and ice covered areas begin melting , the warming effect increases , as the soot becomes more concentrated on the snow surface . ” This provides a positive feedback . as glaciers and ice sheets melt , they tend to get even dirtier, ” said Dr . James Hansen , a researcher at NASA's Goddard Institute for Space Studies . New York . Hansen found soot ' s effect on snow albedo (solar energy reflected back to space) , which may be contributing to trends toward early springs in the Northern Hemisphere , such as thinning Arctic sea ice , melting glaciers and permafrost . Soot also is believed to play a role in changes in the atmosphere above the oceans and land . “ Black carbon reduces the amount of energy reflected by snow back into space , thus heating the snow surface more than if there were no

black carbon ‘ , ’ Hansen said . Soot ’ s increased absorption of solar energy is especially effective in warming the world ’ s climate . “ This forcing is unusually effective , causing twice as much global warming as a carbon . dioxide forcing of the same magnitude . ’ Hansen noted . Hansen cautioned , although the role of soot in altering global climate is substantial , it does not alter the fact that greenhouse gases are the primary cause of climate warming during the past century . Such gases are expected to be the largest climate forcing for the rest of this century . The researchers found that observed warming in the Northern Hemisphere was large in the winter and spring at middle and high latitudes . These observations were consistent with the researchers ’ climate model simulations . which showed some of the largest warming effects occurred when there were heavy snow cover and sufficient sunlight . 1 . Paragraph 3 __. 2 . Paragraph 4 __. 3 . Paragraph 6 __. 4 . Paragraph 7 __. 5 . In the twentieth century , soot __. A Soot ’ s Role in Changes in the Climate and the Atmosphere B Observations of Warming in the Northern Hemisphere C Explanation of Increased Warming Effect Caused by Soot D Effect to Reduce Snow Albedo E Ways to Reduce Soot Emission F Greenhouse Gases as the Main Factor of Global Warming 5. In the twentieth century, soot __. 6 . Hansen cautioned that greenhouse gases __. 7 . Black soot covered snow and ice __. 8 . A soot forcing is unusually effective , which __. A produces much more global warming than a carbon-dioxide forcing of the same magnitude B contributed to 25 percent of observed global warming C can produce greenhouse gases D absorb more of sun ’ s

energy and warmth than white backgroundE still surpass soot in
warming the world ' S climate during the last centuryF can be seen
mostly in the Northern Hemisphere 100Test 下载频道开通，各类
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