

The world has changed since you woke this morning

Sign in Register

Go to: Guardian Unlimited home G

Guardian Unlimited Special reports

Home UK Business Online World dispatch The Wrap Weblog Talk Search The Guardian World News guide Arts Special reports Columnists Audio Help Quiz



Search this site

Special report: climate

Climate change archived

Go to ...

change

articles

Go

Earth is 20% darker, say experts

David Adam Thursday December 18, 2003 The Guardian

Human activity is making the planet darker as well as warmer, scientists say. They believe levels of sunlight reaching Earth's surface have declined by up to 20% in recent years because air pollution is reflecting it back into space and helping to make bigger, longer-lasting clouds.

The "global dimming" effect could have implications for everything from the effectiveness of solar power to the growth of plants and trees. "Over the past couple of years it's become clear that the solar irradiance at the Earth's surface has decreased," said Jim Hansen, a climate scientist with Nasa's Goddard Institute for Space Science in New York.

Experts say global dimming is probably down to tiny particles such as soot, and chemical compounds such as sulphates accumulating in the atmosphere. "Data from 100 stations around the world show that the amount of black carbon in the atmosphere is twice as big as we assumed," said Dr Hansen.

Printable version | Send it to a friend | Save story

In this section

Britain can start dreaming of a green Christmas with swallows

Earth is 20% darker, say experts

Country diary: The Lake District

Letters: Warming to the US?

<u>Drowning islands halt effort</u> to postpone climate change talks

Global warming kills 150,000 a year Global warming is killing us too, say Inuit

Climate change gives insurers a headache

Climate change doubles Britain's stormy weather

Putin stands firm on Kyoto

On the rocks: the grim forecast for winter sports as global warming increases

EU nowhere near meeting Kyoto targets

Save water or risk drought, official warns

Water saving tips

Shrinking ice in Antarctic sea 'exposes global warming'



Guardian Unlimited © Guardian Newspapers Limited 2003