

## MODELLING CLIMATE CHANGE

This booklet is part of the 'Innovations in Practical Work' series published by the Gatsby Science Enhancement Programme (SEP).

### USEFUL LINKS

#### [Met Office](#)

The Met Office has an extensive [weather and climate learning section](#) with resources for teachers and activities for pupils from ages 5 to 16.

#### [Climateprediction.net](#)

Here you can run a climate model on your home computer and take part in a worldwide experiment to investigate future climate change. Within the [Support section](#) of the website there is a range of science activities for 11-16 year olds.

#### [Royal Meteorological Society](#)

This organisation aims to promote education on all aspects of meteorology and related sciences. Resources for school children and teachers can be found within the [Our Activities](#) section.

#### [BBC](#)

The BBC website has an [extensive section on climate change](#) which provides useful background information. There are climate change related resources for students and teachers within the [BBC Bitesize](#) section.

#### [Catalyst: Secondary Science Review](#)

This topical magazine for secondary school students has articles on a wide range of subjects across the science curriculum, bringing them to life with insights into cutting-edge research. There are a number of articles about the climate, computer modelling and the effects of climate change.

#### [American Museum of Natural History](#)

A US site with lots of resources for classroom activities on [climate change](#), its impacts and what we can do about it.

#### [Climate interactive](#)

Through an interactive, accessible computer simulation people can explore and visualize the long-term climate impacts of decisions being undertaken today.

#### [Goddard Institute for Space Studies](#)

Teacher and student resources driven by fundamental questions and topics scientists deal with in climate and environmental research. The activities are problem-based investigations for middle to high school in which students learn to use various research tools to further scientific understanding.

#### [Intergovernmental Panel on Climate Change](#)

This UN body produces assessments of the latest scientific understanding of climate change, its impacts and how it might be mitigated. Within this website you can find diagrams referred to in Activity A5 showing patterns of temperature change across the globe for the [past](#) and for the [future](#).

#### [Learning and Teaching Scotland](#)

A general climate change education site.

#### [NASA Global Climate Change](#)

Lots of information about monitoring climate change from space, real-time data and visualisations.

**[National Oceanic and Atmospheric Administration](#)**

The section [Outgoing Longwave Radiation](#) contains satellite derived images of terrestrial radiation emitted to space from the top of the atmosphere as referred to in Activity A1.

**[Operation climate control](#)**

A fun and engaging multi-player computer game designed for Key Stage 4 students where the player's role is to decide on local environmental policy for Europe for the entire 21st century.