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With the effects of global climate change becoming increasingly apparent, an understanding of the processes that underpin our weather

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Weather and Climate: McIlveen, Robin ...

The Brief Overview

Weather is a specific event—like a rainstorm or hot day—that happens over a few hours, days or weeks. Climate is the average weather conditions in a place over 30 years or more. NASA has observed that Earth's climate is getting warmer.

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The climate system is a complex, interactive system consisting of the atmosphere, land surface, snow and ice, oceans and other bodies of water, and living elements. The climate system evolves in time under the influence of its own internal dynamics and due to changes in external factors that

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are called forcings.

**THE SCIENTIFIC
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Fundamentals of
weather and climate.

Robin McIlveen,
Chapman and Hall
(London), 1992. No. of
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ISBN 0-442-31476-0

**Fundamentals of
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Fundamentals Of
Weather And Climate.
An introduction to the
behaviour and
mechanisms of the
lower atmosphere
which aims to fill a gap
between texts
describing
meteorological
behaviour with no
account of the
mechanisms, and
others which tackle the
theoretical framework
but assume readers

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are already familiar with atmospheric behaviour.

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With the effects of global climate change becoming increasingly apparent, an understanding of the processes that underpin our weather and climate is vital.

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The weather is just the state of the atmosphere at any time, including things such as temperature, precipitation, air pressure and cloud cover. Daily changes in the weather are due to winds and storms.

Seasonal changes are

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due to the Earth
revolving around the
sun.

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Last Updated on Wed,
24 Jul 2019 | Weather
and Climate. In the
GCM, all dynamic and
thermodynamic
processes and the
radiative and mass
exchanges that have
been treated in
Chapters 2 to 7 are

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modelled using five basic sets of equations. The basic equations describing the atmosphere are:

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composition and
energetics, winds, air
masses, clouds,

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storms, and climates of
the earth are among
the topics explored in
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