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This is one of the best books on the Arctic climate system and should be required reading for all scientists and students engaged in the study of the Arctic environment.' Source: Polar Geography Review of the first edition:'I do like this book, which indicates current knowledge concerning the climate of the Arctic and its interaction with the lower latitudes as of today.

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The climate of the Arctic is characterized by long, cold winters and short, cool summers. There is a large amount of variability in climate across the Arctic, but all regions experience extremes of solar radiation in both summer and winter. Some parts of the Arctic are covered by ice ( sea ice, glacial ice, or snow) year-round, and nearly all parts of the Arctic experience long periods with some form of ice on the surface.

~~Climate of the Arctic—Wikipedia~~

The Arctic Climate System begins with a historical perspective, followed by discussion of the basic physical and climatic characteristics of the Arctic. Following a review of past climates (paleoclimates), The Arctic Climate System closes with an assessment of the Arctic's uncertain future.

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prediction of Arctic climate change. The core effort involves the development and use of a Regional Arctic System Model (RASM), consisting of atmosphere, land, ocean and sea ice, as well as vegetation, Greenland Ice Sheet and glaciers. Aside from presenting a detailed picture of the climate patterns which are

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This week, new research confirms that a new Arctic climate system is, indeed, emerging. In fact, some aspects of the Arctic climate have already changed beyond anything the region has experienced...

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Significant advances are being made in our understanding of the Arctic sea ice-climate system. The mean circulation of the Arctic sea ice cover is now well defined through analysis of data from drifting stations and buoys. Analysis of nearly 20 years of daily satellite data from optical, infrared, and passive microwave sensors has documented the regional variability in monthly ice extent, concentration, and surface albedo.

### ~~The Arctic Sea Ice Climate System: Observations and ...~~

The Arctic can be viewed as an integrated system, characterised by intimate couplings between its atmosphere, ocean and land, linked in turn to the larger global system. This comprehensive, up-to-date assessment begins with an outline of early Arctic exploration and the growth of modern research. Using an integrated systems approach, subsequent chapters examine the atmospheric heat budget and ...

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Presently, around one third of the winter Arctic sea ice remains frozen throughout the summer to become 'multi-year ice'. This summertime ice cover plays an important role in the climate system...

### ~~Sea ice in the climate system—Met Office~~

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This is one of the best books on the Arctic climate system and should be required reading for all scientists and students engaged in the study of the Arctic environment.' Polar Geography Review of the first edition: 'I do like this book, which indicates current knowledge concerning the climate of the Arctic and its interaction with the lower latitudes as of today.

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One of the keys to understanding the Arctic climate system is the determination of freshwater transfers. As introduced in Chapter 2, the Arctic Ocean is characterized by a fairly fresh surface layer, primarily maintained by river discharge, the import of low salinity seawater through the Bering Strait, and net precipitation over the Ocean itself.

~~Precipitation, Net Precipitation, and River Discharge ...~~

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The slope sediments in the Arctic contain a huge quantity of frozen methane and other gases - known as hydrates. Methane has a warming effect 80 times stronger than carbon dioxide over 20 years.

~~'Sleeping giant' Arctic methane deposits starting to ...~~

The Arctic climate system is characterized by its low thermal energy state and intimate couplings between the atmosphere, ocean and land. This makes the Arctic a challenging and fascinating region to study.

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