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The Arctic

Climate System

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System The

By Serreze Mark

C Author Jul 23

2009 Paperback

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Mark C

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23 2009

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Essentials of

the Earth's

Climate System

Arctic Climate

Change The

Arctic Climate

System The

Global Climate

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Climate and Its
Change from

Space Brave New

Arctic

Understanding

Present and Past

Arctic

Environments

Arctic Sea Ice

Decline The

Arctic Antarctic

Sea Ice

Variability in

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the Southern System

Ocean-Climate

System

Microclimate and

Local Climate

Arctic Security

in an Age of

Climate Change

The

Interconnected

Arctic – UArctic

Congress 2016

The Climate of

the Arctic The

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Freshwater System

Budget of the
Arctic Ocean The
Pacific Arctic

Region Arctic
Climate

Variability
Arctic Climate

Impact

Assessment -

Scientific

Report Global

Biogeochemical

Cycles in the

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Arctic climate
shifting with
rising
temperatures
Climate change
in the Arctic
The Changing
Arctic: Climate
Climate changing
in Arctic RAZOR:
The year long

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~~expedition to~~

~~understand the~~

~~arctic climate~~

~~system~~ **They are**

trying to

understand the

climate change

at the Arctic

Webinar: Climate

Findings from a

40-Year

Satellite Record

of Arctic and

Antarctic Sea

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Golden: Climate

Change and the

Melting Polar

Ice Caps M7 L3:

Arctic Climate

System and Pan-

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Connections with

Dr. James

Overland Seven

surprising

results from the

reduction of

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Arctic Sea ice

cover | David

Barber |

TEDxUManitoba

Arctic Circle

VIRTUAL: MOSAIC

Full Video

"Freakishly

Warm" Arctic

Weather Has

Scientists

Reconsidering

Worst-Case

Scenarios on

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*Climate Change
Will renewables
end up as more
landfill?*

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NOT to buy an
electric vehicle
(and why each
one is wrong!)

~~Special report:
How Iceland is
melting~~

TESLA batteries
: Are they the

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Holy Grail of

Climate Change?

What If All The

Ice Melted On

Earth? ft. Bill

Nye

Revolutionary

New Lithium Ion

Battery

Technology—

Zero to 200

miles in 5

minutes?

Sensitivity of

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Arctic Sea Ice
Simulations to
Treatment of Sea
Ice Dynamics -

Xiangdong Zhang

Climate Change
Podcast:

Professor Jason

Box, How

Greenland fits
into the climate

system How a

warmer Arctic

could intensify

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~~extreme weather~~

Why the Arctic
is climate
change's canary

in the coal mine

- William
Chapman

Understanding

Human and

Climate System

Interactions in

the North Polar

or Arctic type

climate || Human

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~~Geography || GC~~

~~LEONG || Lecture~~

~~37 Methane: The~~

~~Arctic's hidden~~

~~climate threat:~~

~~Natalia~~

~~Shakhova's~~

~~latest paper.~~

Goh Cheng Leong

Chapter 25:

Arctic or Polar

Climate -

Examrace (Dr.

Manishika) The

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~~Arctic Climate
System The~~

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.'

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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

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today.

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~~Space ...~~

The climate of
the Arctic is
characterized by
long, cold
winters and

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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

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The Arctic

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~~

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~~Wikipedia~~ System

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begins with a

historical Mark

perspective, Jul 23

followed by

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discussion of

the basic

physical and

climatic

characteristics

of the Arctic.

Following a

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review of past
climates

(paleoclimates),
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the Arctic's
uncertain
future.

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~~Climate System |~~

~~NHBS Academic &~~

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By George Mark

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provides a
comprehensive
and accessible
overview of the
subject for
researchers and
advanced
students in a
wide range of
disciplines.

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Contents. 1. The evolution of knowledge about the Arctic and its climate; 2. Physical characteristics and basic climatic features; 3. The basic atmospheric energy budget; 4.

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prediction of
Arctic climate
change. The core
effort involves
the development
and use of a
Regional Arctic
System Model

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The Arctic

(RASM), Climate System

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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~~Understanding~~

~~the Arctic~~

~~Climate System~~

~~The Arctic Mark~~

~~Climate System~~

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confirms that a
new Arctic
climate system
is, indeed,
emerging. In
fact, some

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~~A New Arctic Is
Emerging, Thanks
to Climate
Change...~~

Significant
advances are

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our understanding of the Arctic sea

ice-climate Mark

system. The mean circulation of the Arctic sea

ice cover is now well defined

through analysis of data from

drifting

stations and

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Climate System
buoys. Analysis

of nearly 20

years of daily

satellite data

from optical, Mark

infrared, and Jul 23

passive

microwave

sensors has

documented the

regional

variability in

monthly ice

extent,

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Climate System,
and surface
albedo.

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~~The Arctic Sea~~

~~Ice Climate~~

~~System:~~

~~Observations and~~

~~...~~

The Arctic can
be viewed as an
integrated
system,
characterised by

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Climate System

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

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exploration and
the growth of
modern research.

Using an

integrated
systems

approach,

subsequent

chapters examine

the atmospheric

heat budget and

...

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~~The Arctic System~~

~~Climate System~~

~~Mark C Serreze~~

~~Book~~

By Serreze Mark

around one third

of the winter

Arctic sea ice

remains frozen

throughout the

summer to become

'multi-year

ice'. This

summertime ice

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Climate System
cover plays an
important role
in the climate
system...

By Serreze Mark

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

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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:

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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.

~~The Arctic~~

Page 41/48

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~~Climate System~~

~~(Cambridge~~

~~Atmospheric and~~

~~Space ...~~

One of the keys

to understanding

the Arctic

climate system

is the

determination of

freshwater

transfers. As

introduced in

Chapter 2, the

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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

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itself. Climate System

The Arctic

~~Precipitation,~~

~~Net~~

~~Precipitation,~~

~~and River~~

~~Discharge~~

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~~Serreze, Mark~~

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...

The slope
sediments in the
Arctic contain a
huge quantity of

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The Arctic

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~~

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The Arctic

~~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

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Challenging and
fascinating
region to study.

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