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Jehne The Soil Carbon
Sponge, Climate Solutions
and Healthy Water Cycles
Want to understand climate
change? Read these 5 books
Soil Mineralogy - Clay~~

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Mineralogy Climate Change

Book Recommendations Climate

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~~KAOLINITE [CLAY MINERALS] II~~

~~Soil Structure \u0026 Clay~~

~~Mineralogy II Soil Mechanics~~

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~~II Soumyadeep Halder \~~ "Soil
and Survival: Soil
Restoration to Help Reverse
Climate Change - Seth
Itzkan, Keynote\" *How Bill
Gates reads books* The Birth
of Civilisation - The First
Farmers (20000 BC to 8800

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~~BC) 10 Environmental science
careers you should know
about (salaries!) 100~~

Unsolved Mysteries That
Cannot Be Explained |

Compilation Ancient Anunnaki
Sumerians Epoch - 11,000BC
Origins of Super Advanced

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~~Marks) Elaine Ingham Soil~~

~~Food Web Compost and Compost~~

~~Tea~~

Science books that changed

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my life. Indicators A Case Study

Demonstration: How Ruminants
Improve Water Retention |
Allan Savory Courtney D.
Hatch: Water adsorption on
atmospheric clay minerals as
a function of relative
humidity ~~Humus—the~~

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~~essential ingredient: Graeme
Sait at TEDxNoosa~~

Regenerative Soil with Matt
Powers [FULL PRESENTATION]

The Secret History Of
Climate Change *Climate*

*Change Book | A Cloud Called
Bhura | Bijal Vaccharajani*

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Building in Cold \u0026amp; Wet
Climates Webinar Crops,
Carbon \u0026amp; Climate
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Fields Combat Global
Warming? ~~Assessing Soil~~
Health Using a Microscope~~

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~~with Meredith Leigh Clay~~
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Minerals As Climate Change

The distinctive clay mineral assemblage and major oxide composition of the Talchir mudrocks attest to a unique low intensity chemical weathering in cold arid

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Indicators—A Case Study
presence of...

*Clay Mineral and Geochemical
Proxies for Intense Climate*

...

Clay Minerals as Climate
Change Indicators—A Case

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Study . A. R. Chaudhri,

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07mahavir@gmail.com .

Received September 29, 2012;

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Indicators A Case Study
Revised October 30, 2012;

accepted November 10, 2012.

ABSTRACT . The clay
mineralogy of the Late
Pliocene-Early Pleistocene
Pinjor Formation of the type
...

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Clay Minerals as Climate Change Indicators A Case Study

The clay-mineral
distributions of modern
continental soils show the
main controls of climate
change rather than changes

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in the lithology (Chamley, 1989; Xiong, 1986). Thus, compared to other proxies, clay-mineral assemblages are relatively less influenced by provenance changes.

Paleoclimate change since

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*the Miocene Inferred from
clay ...*

Clay Minerals as Climate
Change . Indicators—A Case
Study . A. R. Chaudhri,
Mahavir Singh . Department
of Geology, Kurukshetra
University, Kurukshetra,

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Indicators: Email: Case Study

archaudhri@gmail.com,

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Received September 29, 2012;

revised October 30, 2012;

accepted November 10, 2012.

ABSTRACT . The clay
mineralogy of the Late

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Pliocene-Early Pleistocene
Pinjor Formation of the type

...

*Clay Minerals as Climate
Change Indicators—A Case
Study*

Clay Minerals as Climate

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Indicators—A Case Study

Study - CORE A clay samples were treated with ethylene glycol and subsequently analyzed. It was evident by this group of minerals that the main source of information about past

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climate change in the given region comes from illite-smectite and illite composition. The more vivid climate signal within the mineralogical historical records is the ...

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Clay Minerals in Soils as
Evidence of Holocene
Climatic Change, Central
Indo-Gangetic Plains, North-
Central India - Volume 50

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Issue 3 - Pankaj Srivastava,
Bramha Parkash, Dilip K. Pal

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Evidence of Holocene
Climatic ...*

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...

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Change Indicators—A Case*

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Indicator - CORE Case Study

The Intergovernmental Panel on Climate Change (IPCC) produced five reports since 1990, and unfortunately each new one found that what had been considered the worst case scenario in the

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Indicators A Case Study
previous had by then
actually happened. If we now
look at the worst case
scenario of the latest
report – that if we do not
take very strong actions
now, good luck to our
children and grandchildren –

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*Climate change and COP26 –
what the brick has to do
with ...*

Clay minerals weathered from
continental environments
occur commonly in a wide

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Indicators of facies, and thereby
may provide indication of
palaeoclimatic change in
settings otherwise
unsuitable, including
offshore marine.

Late Jurassic–Early

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*Cretaceous climate change
record in ...*

the clay's propensity to
change volume This can be a
natural seasonal occurrence
or can be enhanced by
various means including:
normal seasonal movements

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associated with changes in
rainfall and vegetation
growth enhanced seasonal
movement associated with the
planting, severe pruning or
removal of trees or hedges

Swelling and shrinking soils

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British Geological Survey
Australia's new chief
scientist, Cathy Foley, says
climate change is a problem
with "no single solution,"
and one of the world's
greatest challenges. Sophie
Vorrath Posted on 9 November

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*New chief scientist says
climate change has "no
single ...*

Climate Change; climate-
change; Clay minerals call
the shots with carbon.

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Indicators A Case Study
October 21, 2019 . Source:
Science Daily. Clay minerals
suspended in seawater binds
sedimentary organic carbon
to their mineral surfaces.
But the quantity of carbon
that is bound and the source
of that carbon very much

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Indicators A Case Study
depends on the clay mineral
in question. A research team
has shown this by studying
sediments in the ...

*Clay minerals call the shots
with carbon | Climate Change*
The types of clay minerals

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found in weathering rocks strongly control how the weathered rock behaves under various climatic conditions (such as humid-tropical, dry-tropical, and temperate conditions). Kaolinite is found in most weathering

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*Environmental
Characteristics of Clays and
Clay Mineral ...*

Overview A new World Bank
Group report, "Minerals for
Climate Action: "The Mineral

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Intensity of the Clean

Energy Transition," finds that the production of minerals, such as graphite, lithium and cobalt, could increase by nearly 500% by 2050, to meet the growing demand for clean energy

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*Climate-Smart Mining:
Minerals for Climate Action*
Clay Minerals As Climate
Change Indicators A Case
Study Author: salondeclase.a
reandina.edu.co-2020-08-09T0

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*Clay Minerals As Climate
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Climate Change Adaptation;
Reducing Material Impacts;
Creating Market
Opportunities; Given the

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foresight into the pending
energy revolution, a
coordinated global effort
early on could give nations
a greater chance to mitigate
the impacts of mining, avoid
haphazard mineral
development, and contribute

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to the improvement of living standards in mineral-rich countries. The World Bank works closely ...

*Climate Smart Mining:
Minerals for Climate Action
- Visual ...*

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The Intergovernmental Panel
on Climate Change - the
leading international body
on global warming - last
month argued the global
average temperature rise
needed to be kept below 1.5C
- not 2C as ...

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*Climate change: The massive
CO2 emitter you may not know*

...

The clay mineral composition
and the mineralogy of the
coarser fractions would
generally change little,

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*3. The effects of global
change on soil conditions in*

...

Scientists have found a way
to produce a mineral, known
as magnesite, in a lab that

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can absorb CO₂ from the
atmosphere, offering a
potential strategy for
tackling climate change. By
reducing a...

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This book is a systematic compilation of the most recent body of knowledge in the rapidly developing research area of greenhouse gas interaction with clay systems. Unexpected results of the most recent studies –

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such as unusually high
sorption capacity and
sorption hysteresis of
swelling clays –stimulated
theoretical activity in this
fascinating field. Classical
molecular dynamics (MD)
explains swelling caused by

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intercalation of water molecules and to a certain degree of CO₂ molecules in clay interlayer. However, unusual frequency shifts in the transient infrared fingerprints of the intercalated molecules and

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the following accelerated carbonation can be tackled only via quantum mechanical modeling. This book provides a streamlined (from simple to complex) guide to the most advanced research efforts in this field.

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Of huge relevance in a number of fields, this is a survey of the different processes of soil clay mineral formation and the consequences of these processes concerning the

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Soil ecosystem, especially
plant and mineral. Two
independent systems form
soil materials. The first is
the interaction of rocks and
water, unstable minerals
adjusting to surface
conditions. The second is

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Indicators A Case Study
the interaction of the
biosphere with clays in the
upper parts of alteration
profiles.

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Engineering geology is an interdisciplinary subject concerned with the application of geological science to engineering practice, and it is therefore important for the

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engineering geologist to
recognize the boundary
between engineering
application and purely
scientific enquiry. Much
research in applied clay
science results from
imperfectly understood

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Indicators A Case Study Engineering Behaviour.

Engineering geology is most closely allied to the geotechnical and materials areas of civil engineering. The scope of the present book is limited to the influence of clay but

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Indicators: A Case Study

because clay is almost ubiquitous in earth materials the subject still remains broad. In soil and rock, clay is the smallest size fraction, but it is that very fact which often determines its major

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influences on engineering
behaviour. In this book the
author reviews the
importance of clay in
engineering geology and
summarizes present knowledge
in this field. The plan of
the book has remained

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unchanged since the first edition was published in 1968 but the text, diagrams and reference lists have all been extensively updated. The first 5 chapters review the classification, origin, composition, fabric and

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physical chemistry of clays.
Behavioural aspects, covered
in the following 4 chapters,
include moisture
interaction, strength and
rheology, soil stabilization
and the use of clays as
materials. The final 3

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Indicators A Case Study
chapters describe methods of
analysis of clays and soils.
Clay in Engineering Geology
contains material drawn from
a wide variety of sources
and, together with its
literature review and
indexes, will provide much

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of value to geologists,
mineralogists, civil and
geotechnical engineers
concerned with applied clay
science.

Clay Sedimentology is a
comprehensive textbook

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divided into six parts:

- clay minerals and weathering
- clay sedimentation on land
- origin and behaviour of clay minerals and associated minerals in transitional environments (estuaries, deltas) and shallow-sea

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environments - diverse
origins of clay in the
marine environment - post-
sedimentary processes
intervening during early and
late diagenesis - use of
clay stratigraphic data for
the reconstruction of past

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Indicators, marine circulation, tectonics, and other paleogeographical aspects. A basic idea on most topics dealing with sedimentary clays is presented and controversial data and uncertainties from the

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Indicators of knowledge are
discussed.

Soil in the Environment is
key for every course in soil
science, earth science, and
environmental disciplines.
This textbook engages

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Indicators A Case Study
Students to critically look at soil as the central link in the function and creation of the terrestrial environment. For the first time, Dr. Hillel brilliantly discusses soils as a natural body that is engaged in

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dynamic interaction with the atmosphere above and the strata below that influences the planet's climate and hydrological cycle, and serves as the primary habitat for a versatile community of living

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Indicators A Case Study organisms. The book offers a larger perspective of soil's impact on the environment by organizing chapters among three main processes: Physical, Chemical, and Biology. It is organized in a student-friendly format

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Indicators A Case Study
with examples, discussion
boxes, and key definitions
in every chapter. The book
provides students of
geology, physical science,
and environmental studies
with fundamental information
and tools for meeting the

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Indicators A Case Study
natural resource challenges
of the 21st century, while
providing students of soil
science and ecology with the
understanding of physical
and biological interactions
necessary for
sustainability. First

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textbook to unite soil
science and the environment
beyond what is traditionally
taught Incorporates current
knowledge of such hot topics
as climate change, pollution
control, human expropriation
of natural resources, and

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Indicators A Case Study
the prospects for harmonious
and sustainable development
Organized in a student-
friendly format with
examples, discussion boxes,
and key definitions in every
chapter Full color
throughout

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Multiple proxy analysis of lake sediment records are crucial for understanding changes in environmental and climate conditions over historical and geological time. Most recently, the use

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of biomarker proxies coupled with sedimentological investigations provides a new approach for gaining insight into the lake processes that capture information about past climate change. This

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approach is applied here to better understand the paleoclimate record from Lake El'gygytgyn in Western Beringia. Multiple organic geochemical compound concentrations were measured as proxies for both aquatic

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and terrestrial biological productivity. Measurements of n-alkane (plant leaf waxes) as well as concentrations of the compounds arborinol (marker for trees), dinosterol (dinoflagellates), and long

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chain (C28 to C32) 1,15 n-
alkyl diols (eustigmatophyte
algae) demonstrate warming
conditions around Lake
El'gygytgyn during MIS 9 and
MIS 11, especially when
compared to diatom
production and palynological

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Investigations from Melles
et al. (2012). These time
periods illustrate the
presence of extensive forest
cover as well as elevated
concentrations of all
aquatic biomarkers analyzed,
corroborating their super

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Interglacial A Case Study

Analysis of branched glycerol dialkyl glycerol tetraethers, a relatively new proxy used to estimate mean annual temperatures and soil pH, was applied also suggesting warming

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Indicators A Case Study
conditions during MIS 9 and
MIS 11, although further
calibration techniques are
needed to accurately
estimate temperature
changes. Sedimentological
results include the analysis
of bulk mineralogy, clay

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mineralogy, iron oxide, and color measurements for the same MIS 8 through MIS 12 interval. The hue color parameter, measured from high resolution core scans, suggests a link to global climate records, with green

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Sediments reflective of cold intervals and red sediments indicative of warmer climate conditions. Validation of the color record was done in part by analyzing the clay mineralogy and the abundances of clay minerals.

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These data show that clay deposition dominates interglacial periods. Moreover the clay polytypes can be linked to bedrock weathering. Bulk mineralogy measurements allow for the reconstruction of synthetic

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color spectra which link
mineralogy to sediment
color. Overprinted on the
mineralogical color signal
is red color staining from
iron oxide minerals, formed
within the catchment during
wet intervals when

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Indicator: A Case Study
Increasing amounts of eroded
Fe - bearing silicate
minerals are available for
oxidation. If true,
interpretation of the hue
record then suggests hue is
a proxy for wet/dry
conditions within the lake,

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and when paired with the
biomarker analysis shows
significant warmer and
wetter conditions during MIS
9 and 11. However, the hue
record also demonstrates
notable variability outside
of these two interglacial

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Indicators, not recognized by other proxies, are not currently well understood. Overall, the multi-proxy results from this work can be further applied to the longer temporal scale of the Lake El'gygytgyn sediment

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core, and potentially
elucidate climate changes
deeper into the Pleistocene,
and even into the Pliocene
portions of the sediment
record.

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The NATO Advanced Research
Workshop on
"Paleoclimatology and
Paleometeorology: Modern and
Past Patterns of Global
Atmospheric Transport" (held
at Oracle, Arizona, USA from

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Indicators (17-19, 1987) Case Study

brought together atmospheric chemists, physicists, and meteorologists who study the origin and transport of modern-day mineral and biological aerosols with geologists and

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Indicators: A Case Study
paleobotanists who study the sedimentary record of eolian and hydrologic processes along with modelers who study and conceptualize the processes influencing atmospheric transport at present and in the past.

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Presentations at the workshop provided a guide to our present knowledge of the entire spectrum of processes and phenomena important to the generation, transport, and deposition of eolian terrigenous material that

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ultimately becomes part of the geologic record and the modeling techniques that used to represent these processes. The presentations on the geologic record of eolian deposition documented our present

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Understanding of the nature
and causes of climate change
on time scales of the last
glacial ages (tens of
thousands of years) to time
scales over which the
arrangement of continents,
mountains, and oceans has

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Indicator A Case Study
changed substantially (tens of millions of years). There has been a growing recognition of the importance of global climatic changes to the future well-being of humanity. In particular, the

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climatic response to human alterations to the earth's surface and chemical composition has led to concern over the agricultural, ecological, and societal impacts of such potential global changes.

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