

The Andes
The Highlands / Plateaus
Amazon Basin
Varzea

The Amazon Region

QUESTION TWO: Interaction in a Large Natural Environment

Read the geographic concept below and refer to it when answering this question.

Geographic Concept

Interaction involves elements of an environment affecting each other and being linked together. Interaction incorporates movement, flows, connections, links, and interrelationships. Landscapes are the visible outcome of interactions.

Name **TWO processes** that **interact within your named environment** case study from page 2.

Processes to consider may include:

- climatic - RAINFALL / ITCZ / TEMP CHANGE with latitude
- tectonic - continental drift, volcanism, folding and faulting
- movement (erosion / transportation / deposition) fluvial, glacial, aeolian
- weathering -> freeze thaw / RAIN / WIND
- mass movement -> Transportation

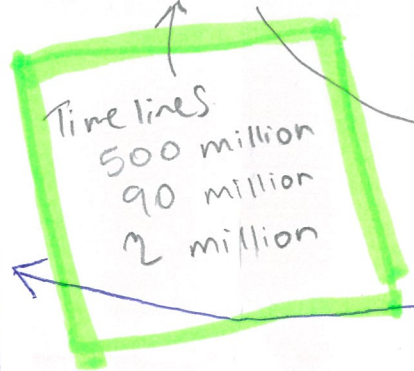
Interaction between process: _____ and process: _____

Fully explain the interaction between these processes.

Integrate comprehensive supporting evidence from your named environment case study, the **geographic concept** above, and **geographic terminology**, within your answer.

You may include **labelled sketch maps and/or diagrams to support your answer.**

- Pattern
- Processes
- Change
- Interaction
- Environment



How your two Processes Interact

with the environment

Use insightful use of geographic concepts

Explanation
Linking statement

Fully - great detail

1st paragraph
Identify the
Most use it

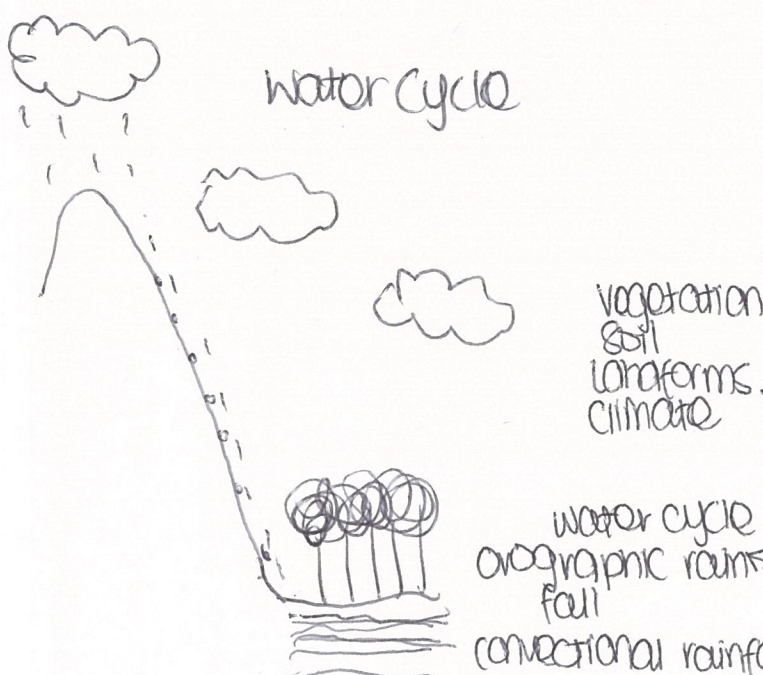
Convectional
and
orographic
rainfall

what, how
why
Fully explain
Interaction

Specific
Case study
information
& facts

case study specifics

Linking statements:
As a result of...
This is because...
Due to...



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Name TWO **processes** that **interact** within your named **environment** case study from page 2

Processes to consider may include:

- climatic → dates
- tectonic → Faulting, folding of plates
- movement (erosion/transportation/deposition)
- weathering → Freeze Thaw
- mass movement → Breaking down into smaller particles

Varzea
Andes mountains
Amazon Basin
highlands

Amazon region.

Interaction between process: ~~processes~~ climate and process: ~~interaction~~ tectonic

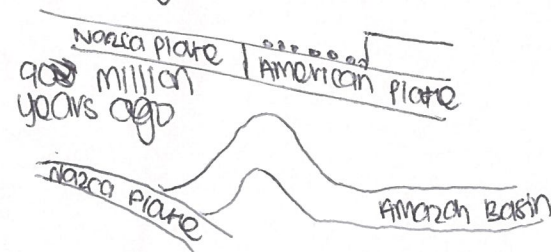
Fully explain the **interaction between these processes**.

Integrate comprehensive supporting evidence from your named environment case study, the geographic **concept** above, and **geographic terminology**, within your answer.

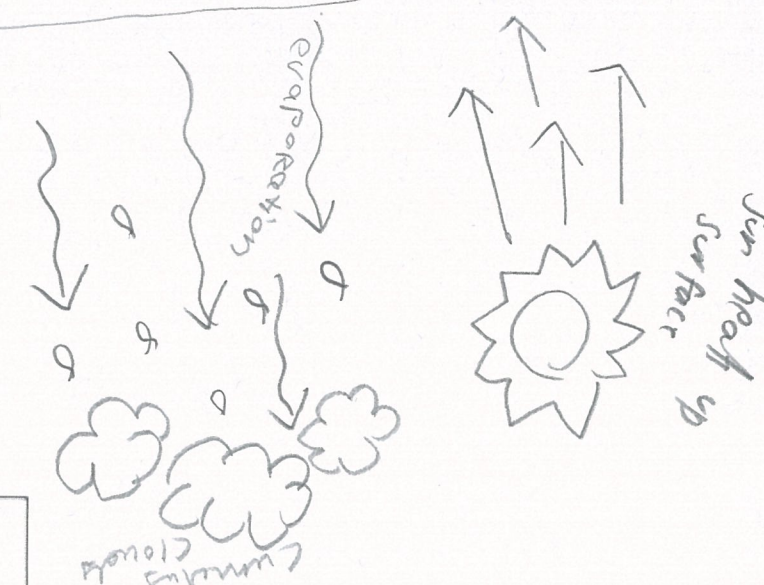
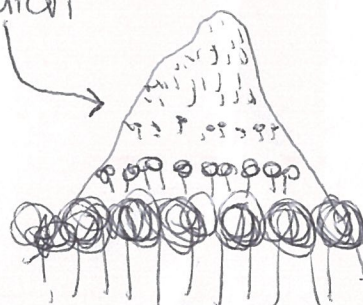
You may include **labelled sketch maps and/or diagrams** to support your answer.

Patterns
Environment
interaction
change
perspectives
Processes
Sustainability

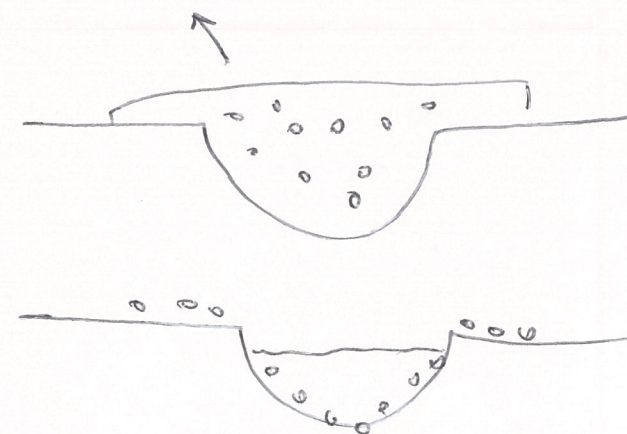
Tectonic Processes
500 million years ago



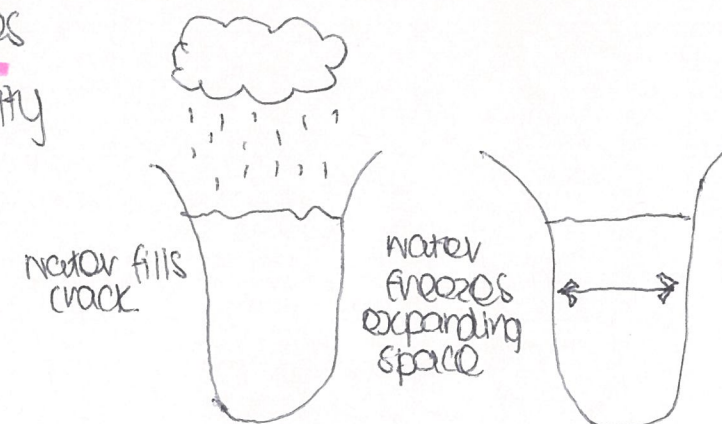
convictional rainfall
Tectonic movement of the plates
vegetation stratification
vegetation zonation



Amazon Basin and the Varzea



Erosion processes



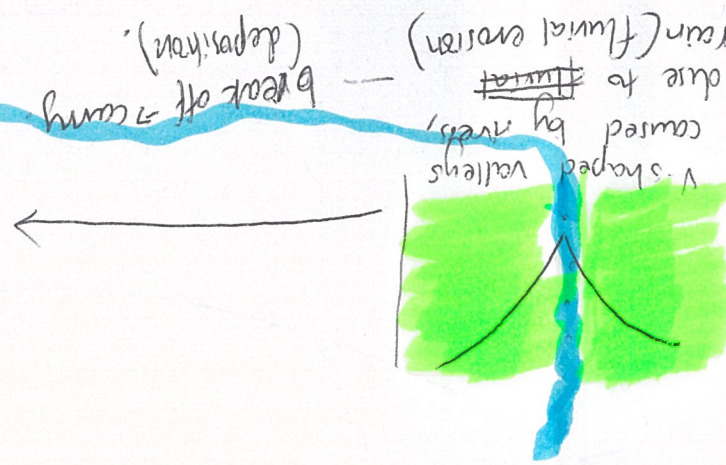
Specific case study information used throughout.

→ geographic concept: geographic terms used (processes)

→ geographic terms used (movement)

Diagrams used to break up important information.

This interaction between climatic processes and movement processes, causes the ~~Andes~~ to form V-shaped valleys, due to rain (fluvial erosion) due to the climate.



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- climatic
- tectonic
- movement (erosion/transportation/deposition)
- weathering
- mass movement.

Interaction between process: **Climatic**

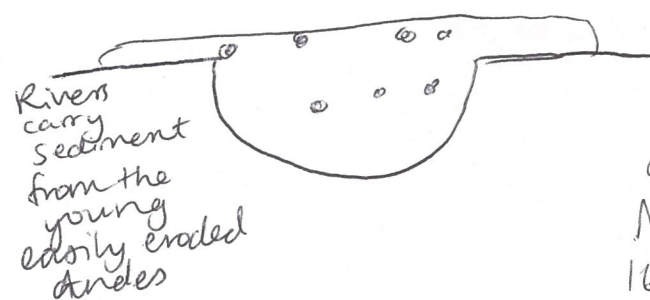
and process: **movement**

Fully explain the **interaction** between these **processes**.

Integrate comprehensive supporting evidence from your named environment case study, the geographic concept above, and geographic terminology, within your answer.

You may include labelled sketch maps and/or diagrams to support your answer.

- why something happens.
- In great detail with lots of depth within your answer.



River waters higher due to melting snow in the Andes and increased rainfall November to June, Rivers 16 - 20 metres higher.

River Waters recede after June - Sediment left behind.

Sediment builds up on Varzea and Basin. Sediment creates flat basin landform.

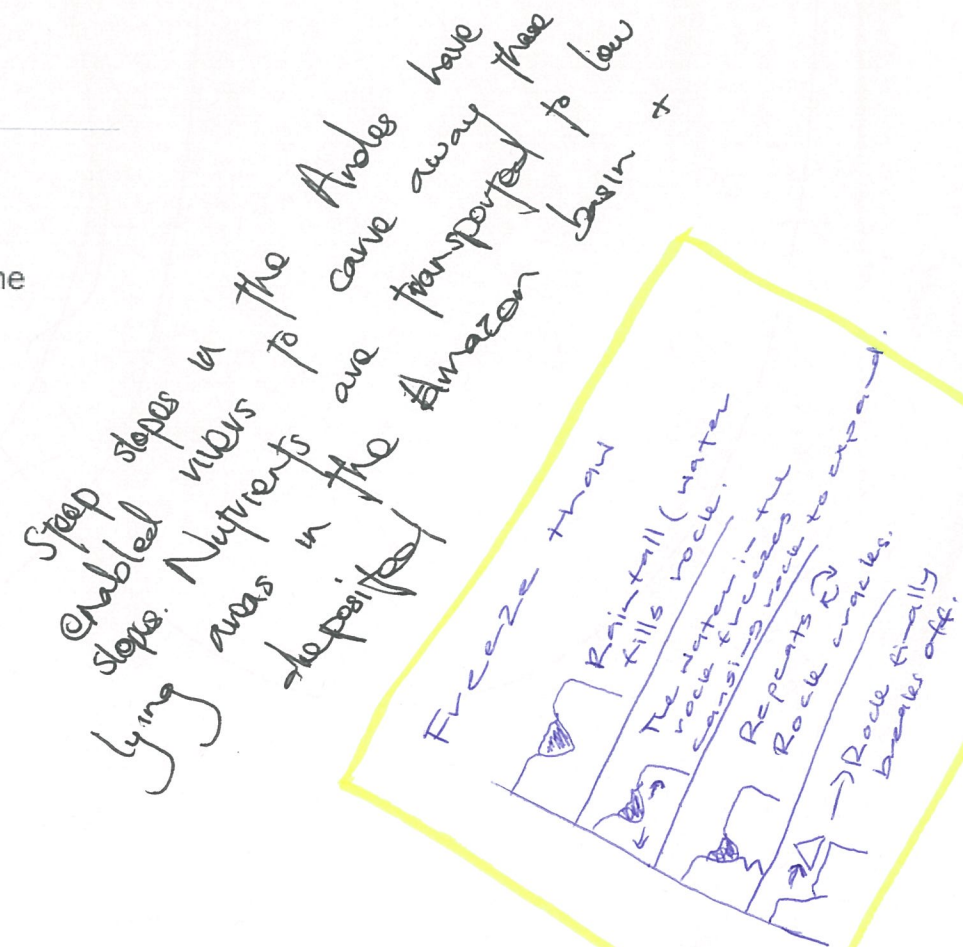
Andes Varzea / Highland/Plateau. Amazon Basin.

Due to the Earth's rotation, in January, precipitation levels are high however they decrease from the southern hemisphere to the northern hemisphere.

• orographic
• convective
process (rain).

Fluvial Erosion due to climatic process (rain).

Convectional rainfall:



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- movement (erosion/transportation/deposition)
- weathering
- mass movement.

Interaction between process: Tectonic and process: movement

Fully explain the interaction between these processes.

Integrate comprehensive supporting evidence from your named environment case study, the geographic concept above, and geographic terminology, within your answer.

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why something happens in great detail with lots of depth within your answer.

ANDES

TECTONIC:

Nazca plate subducts under South American plate

Nazca: oceanic - denser
forced down = subduction
American plate - lighter, continental

MOVEMENT:



FLUVIAL EROSION
rivers caused by
orographic rainfall
creating V-shaped
valleys

TECTONIC:

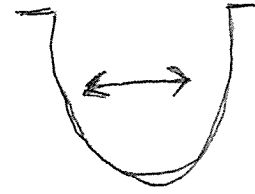
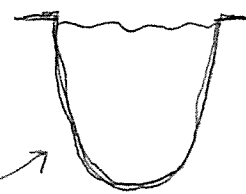
MOVEMENT

Tectonic movement in the Andes through folding has caused rivers to deposit sediment and alluvium in the varzea.



Indes created by
plates colliding

GLACIAL

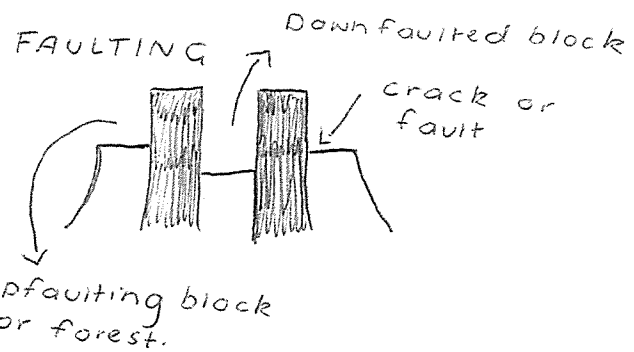


water
fills up and
freezes and
expands

HIGHLANDS / PLATEAUS

TECTONIC:

MOVEMENT



BASIN

TECTONIC:

MOVEMENT:

Deposition - Sediment which has eroded from the Andes mt have been carried down by rivers and deposited in the Amazon basin.

Because tectonic movement in the Andes cause sediment to be eroded and transported to the basin.

Flat land / gradient of only 100m from east to west.