

Learning Material

South America – from coast to coast

Grade 7 - 9

Exercises

Seite 2 / 6

Exercise Sheet 2: Land Surface and Topography

Exercise

1. Which (land) covers can you see in the image?

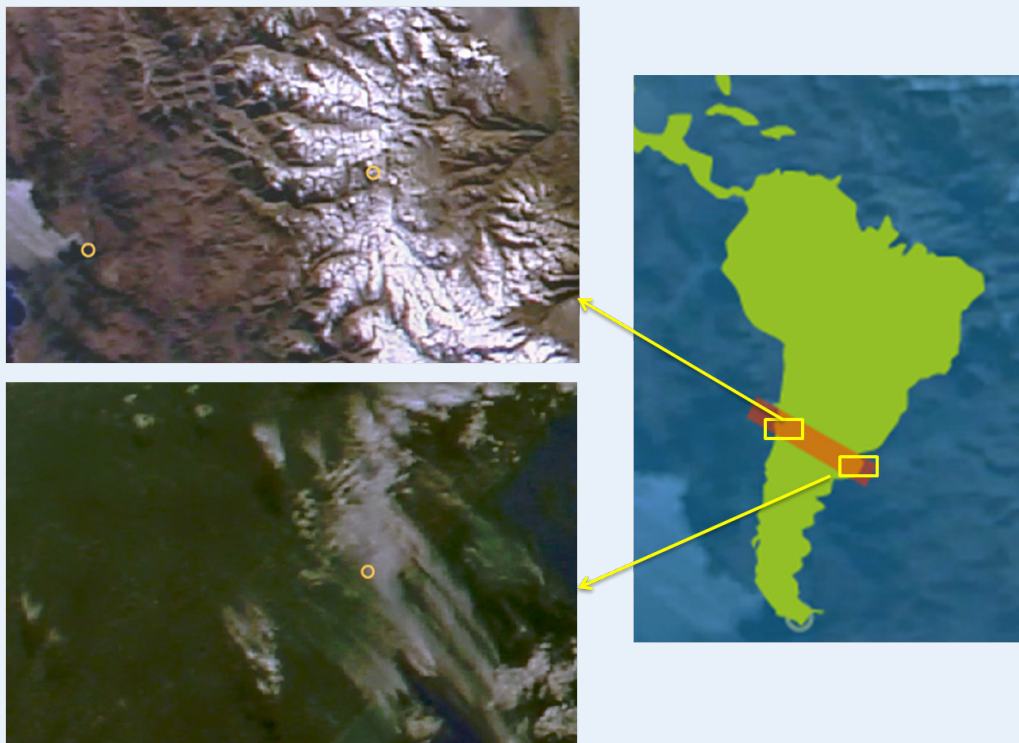
Go from coast to the hinterlands and list at least four different surfaces which you spot along.

- 1.
- 2.
- 3.
- 4.

2. The two images on the left show extracts of the flyover. The overview map on the right identifies the location of both images.

a) What do you recognize in terms of vegetation? Which extract shows a rather barren area and what can you spot here?

b) What could be the reason for a non-vegetated area on one image while the other one shows a very green vegetated area?



Exercise Sheet 3: The Andes

Exercise

1. The Andes are the earth's largest mountain range.
 - a) On which countries does it spread out?

 - b) Which part of the Andes can be seen in the ISS-Panorama?

2. How were the Andes formed?
 - a) How is the leading process for most topographical characteristics of the Earth called?

 - b) From which particular process do the Andes originate?

 - c) Shortly explain which plates were involved by the creation of the Andes (linked to Question 2b).

Exercise Sheet 4: The Classification

Exercise

1. Use the tool and conduct a classification. Choose the area which is depicted right at the beginning when you open the tool (place the slider to the very left). Create four surfaces: water, clouds, ice and mountains/land. Also check the instructions below the tool. You can display or hide them to get the instructions on how to make your map.

a) Create training samples for all three surfaces.

b) Name them and assign different colors to them.

c) Save the map.

2. Test the classification with different training areas and compare them. Again, choose the same areas as for Exercise 1 (place slider at the very left).

Ascertain how big the area covered with ice is.

Note: The total area for the classification should always be around 129,000km². As you have to zoom out when you click „create map“ and also when you afterwards click „save map“ you should get back to the previous extent before you conduct a different classification to make the different classifications comparable.

Exercise Sheet 5: Regions & Phenomena in SouthAmerica

Aufgaben

1. Why is the Salt Lake „Salinas del Bebedero“ that salty?

2. Río Quinto vs. Río Elqui

a) Which region does the Río Quinto run through?

b) Where does the Río Elqui originate?

c) Inform yourself of the two rivers via the information points, locate them in the ISS-Panorama and describe their characteristics.

3. The Pampa – what exactly describes this region? Shortly describe climate and vegetation.