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RIVER PLUMES IN THE BLACK SEA



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 824630.





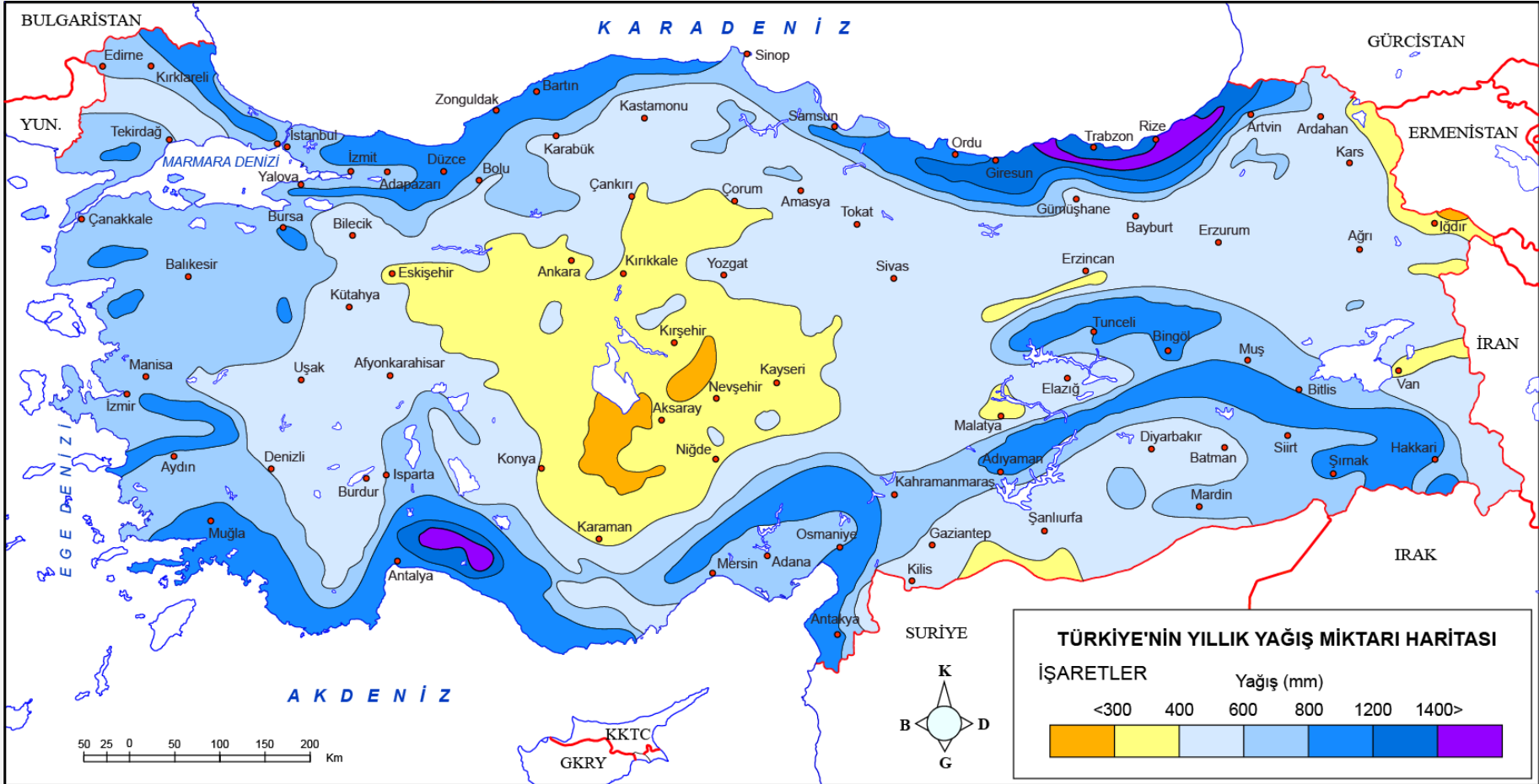
- ✓ Due to the soil structure and weather characteristics of the Black Sea Region, it is located in a geography where floods and landslides are frequently experienced.
- ✓ The Eastern Black Sea Region is the part that receives the most precipitation, the annual average precipitation is 1500 mm (1500 kg per square meter), the rainiest province is Rize with 2400 mm.
- ✓ The mountains prevent the humid air of the coastal area from passing into the interior, and there are significant climatic differences between the coast and the interior of the region.



- ✓ As you go from the coasts to the interior, both the precipitation rate decreases and the temperatures decrease due to continentality.
- ✓ The prevailing wind direction and the location and elevation of the slopes are the most important factors in the precipitation distribution of the region.



The Black Sea Region, especially the Giresun - Rize line is a region that receives heavy rainfall.



Kaynak: İ. ATALAY 1983

cografyaharita.com

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Along with the Mediterranean coastal part on the map, the Eastern Black Sea coast draws attention with the abundant precipitation it receives.

The effective and continuous rains occurring in these seasons cause flood and landslide disasters in the region.
causes loss of life and property.

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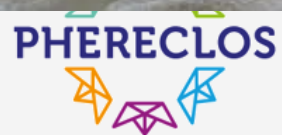
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Many lives have been lost in 90 years due to the flood disasters that occurred in our region.

These losses were due to landslides and floods.

In the Eastern Black Sea Region, the most flood occurred in Rize.

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1929 Landslide in Trabzon's Of district

1981 Flood in Pazar district of Rize

1983 Flood landslide in Pazar and Fındıklı districts of Rize

1988 Landslide in Çatak village of Maçka district of Trabzon

1990 Floods in Değirmendere and Söğütlü districts of
Trabzon's Akçaabat district

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- 1990 Landslide in Çamlıhemşin district of Rize
- 1998 Flood and landslide in Trabzon Sürmene and Beşkøy town of Köprübaşı
- 2002 Flood and landslide in Güneysu and Çayeli districts of Rize and Taşlıdere neighborhood It occurred on August 22, 2020 in Giresun. And it caused quite a lot of financial damage. (2.2 billion loss)

22 August 2020 Giresun 11 deaths, 4 people lost (2.2 billion damage)



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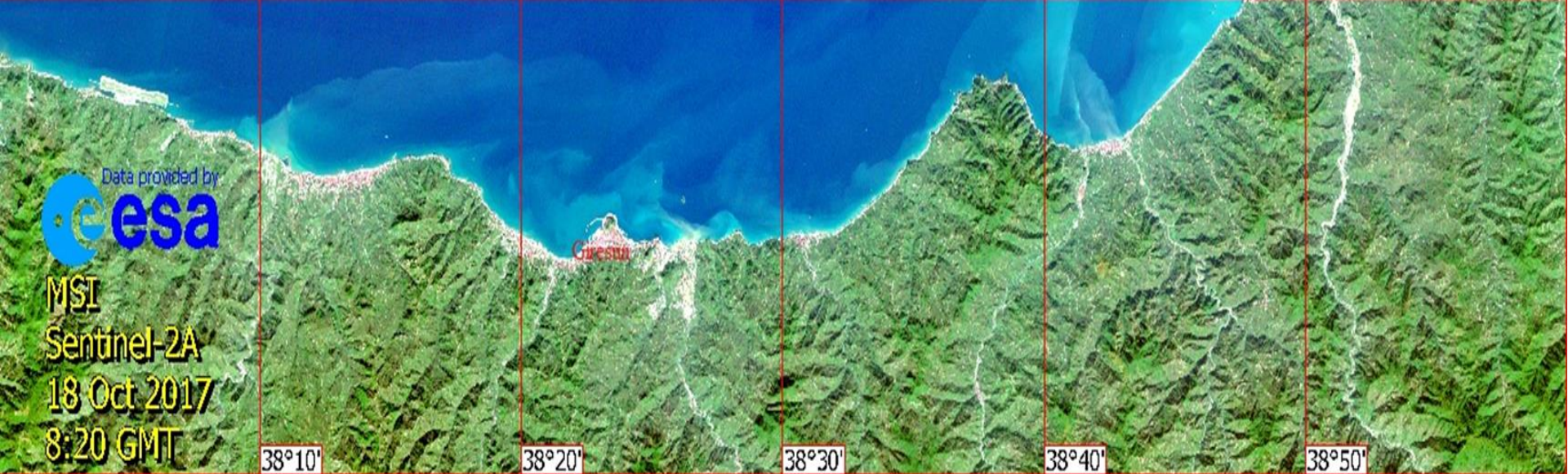
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41°10'

Satellite images of flood plains of Giresun rivers

41°00'



Data provided by
esa

MSI
Sentinel-2A
18 Oct 2017
8:20 GMT

38°10'

38°20'

38°30'

38°40'

38°50'

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OK KIDS

WHAT CAN WE DO TO PREVENT

THESE FLOODS?

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Ormanlar Yağmur Suyunu Emerler



Yangından Sonra Bitki Örtüsü Toprağı Kömürleştirir Suyu Ememez



Ve Sonuç Olarak Emilemeyen Su Şehirlere Sürüklenerek SEL Oluşturur!



Orman Genel Müdürlüğü
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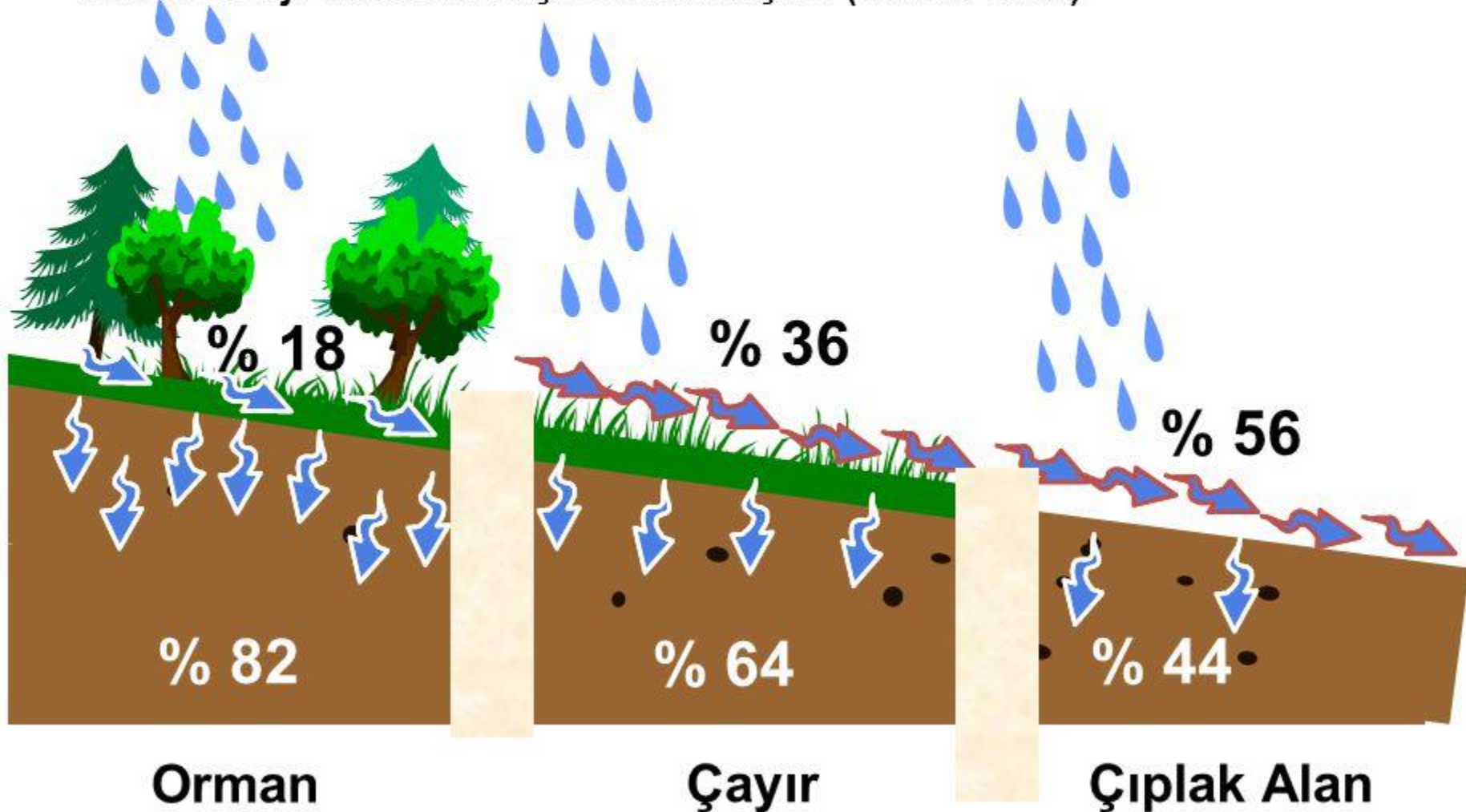


BİTKİ ÖRTÜSÜNÜN SEL OLUŞUMUNA TESİRİ



Bitki örtüsünün yüzeysel akışa ve toprağa sızan su miktarına etkisi

Elmalı Barajı Havzası Araştırma Sonuçları (BALCI 1956)



Concretization / urbanization reduces green areas and floods its disasters are increasing day by day.



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ÜRETİCİNİN ZARARI 10 MİLYON LİRA



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FOR YOUR PARTICIPATION
THANK YOU.



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