



# Study of distribution of Forest plants in Turkey

- HANA E MITANI (Okayama University Faculty of Agriculture )
- HIROMICHI OHTA (Okayama University Faculty of Agriculture )
- DR. KAZUTO SHIMA (Okayama University Faculty of Agriculture )

# Schedule



2008. Oct. 15

Departure

15 ~ 18

TRABZON

19 ~ 21

ANTALYA

22 ~ 23

ISTANBUL

24

Arrival





# TRABZON

Population : 1,061,055

Area : 6685 km<sup>2</sup>

Industry : about 20% of Turkey's hazelnut, tea and fish production takes place in Trabzon

History : Being located on the Silk Road, benefited commercially a lot. And here has continued significance as a gate opening to the east.

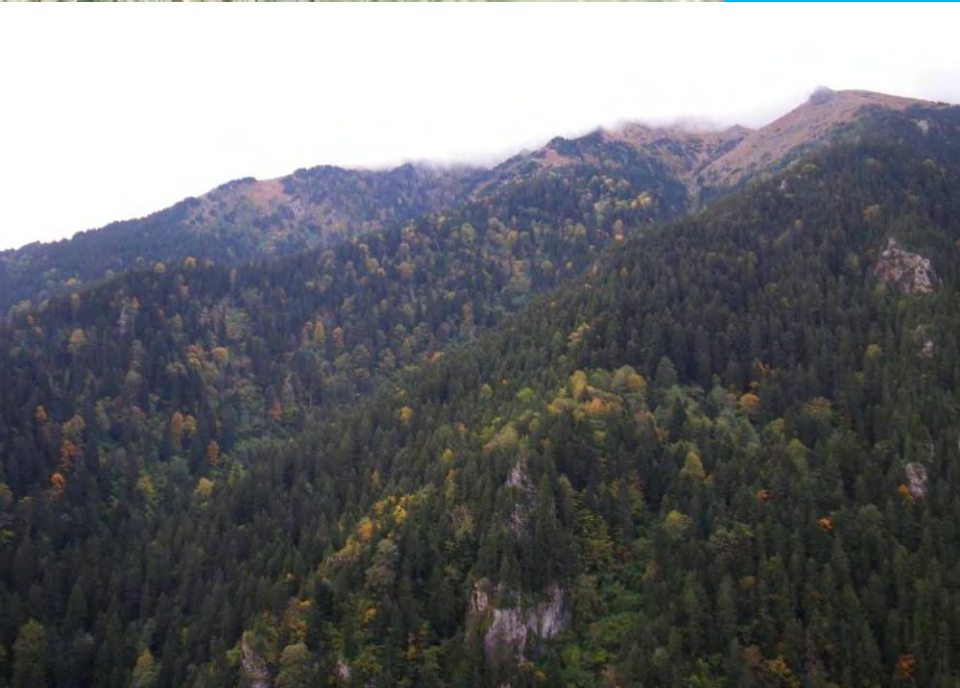
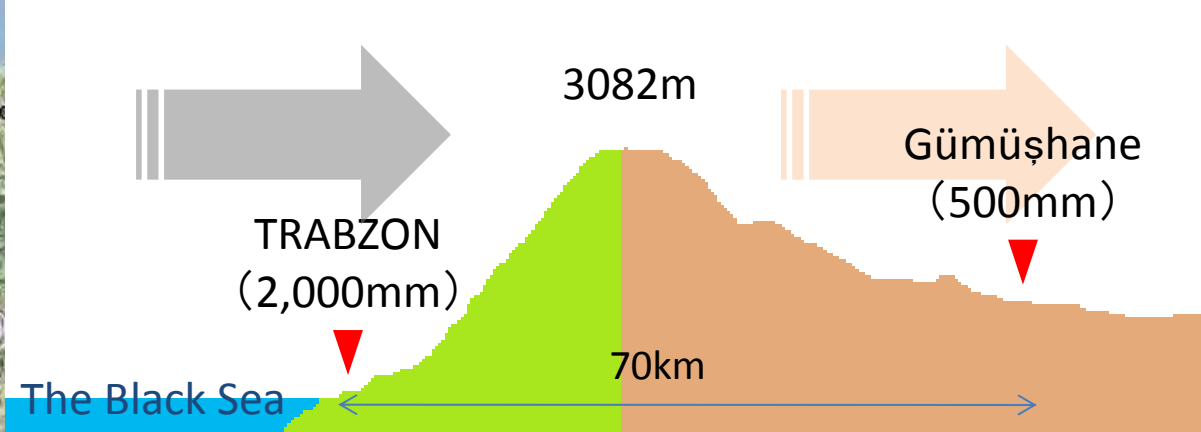
## KARADENİZ TECHNICAL UNIVERSITY

- More than 100 departments in 15 Faculty
- 33,000 students
- Faculty of Forestry : department of forest engineering, forest industry engineering, forest landscape architecture



DR. Mustafa VAR  
(Karadeniz Technical University  
Faculty of Forestry)





The Black Sea side

Dominant species in Forest

Inland side

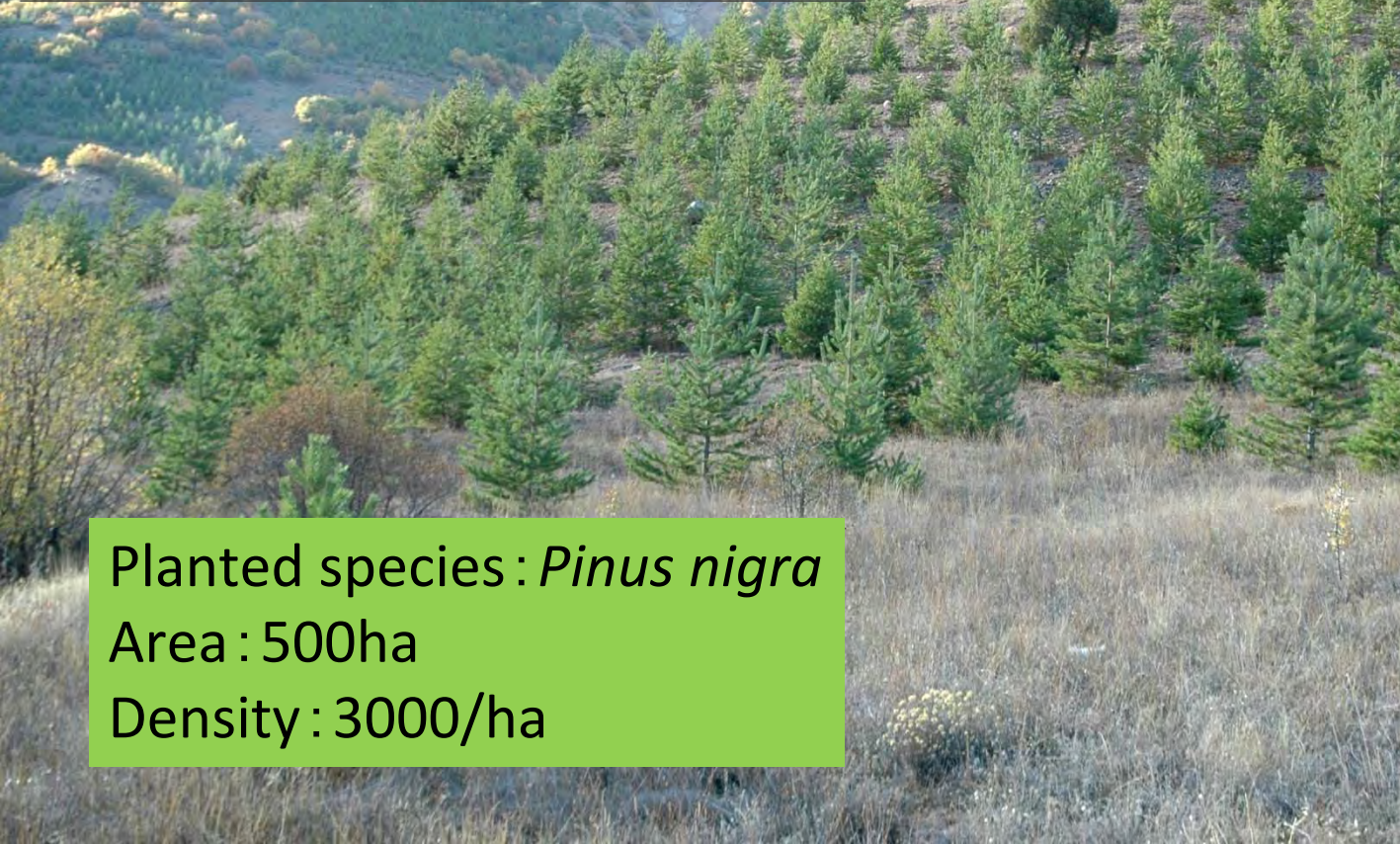
*Picea*, *Abies*,  
*Carpinus*, *Fagus*

*Pinus sylvestris*

4



Planted for protection of soil erosion  
Planted species: Locust tree



Planted species : *Pinus nigra*  
Area : 500ha  
Density : 3000/ha

The inland side of mountain is unfit for agriculture because of no enough rainfall.



immigration from inland side to the Black Sea side increased and opened the forest for cultivation of tea and hazelnut.



The hazelnut field



The tea field and farmer's house

# History of tea production in Turkey

tea production in the world  
(ton/yr)



1938

Tea plantation started

1947

Tea factory established in Rize

1970'S ~ NOW

Tea become popular in Turkey



99% of forests is  
national forest in  
Turkey.

→ Cutting is illegal





The tea fields in river side



landslide

Excessive deforestation and using fertilizer cause landslide and water pollution.

# History of disturbance of Lebanon cedar

Before BC8000

Lebanon cedar was found in all Middle east.

About BC8000- Cutting started

Ancient for fuel,  
building materials and  
ship building



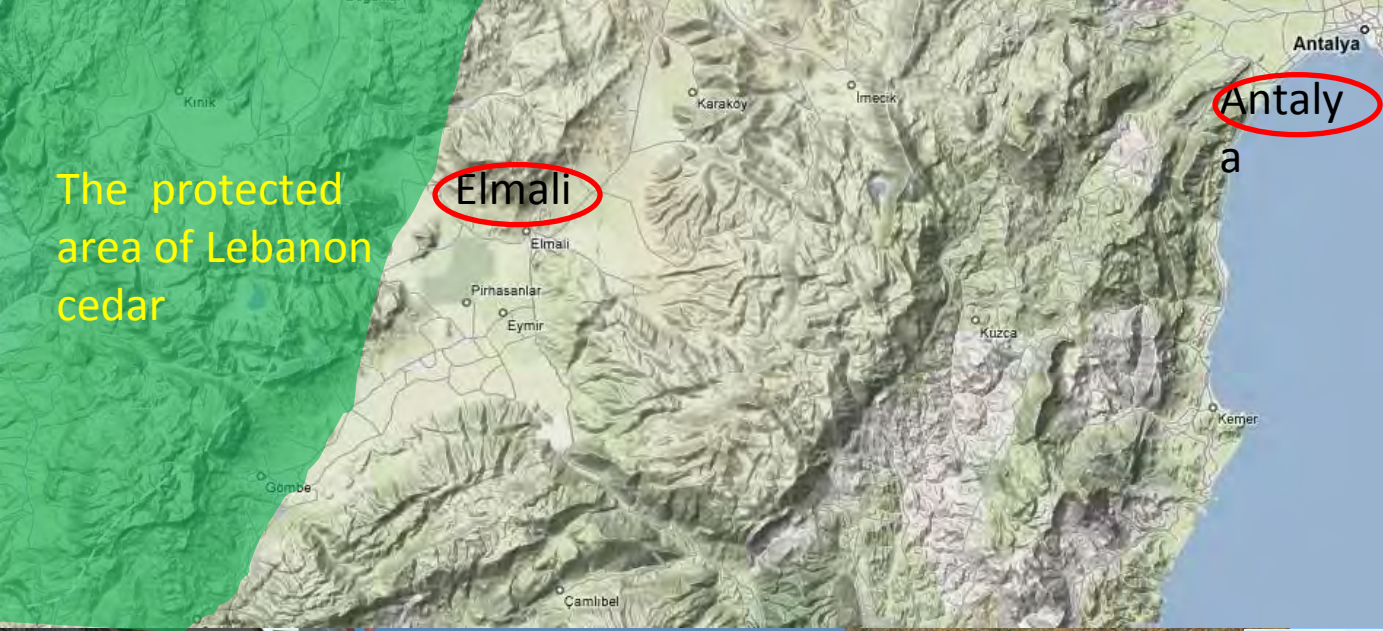
Middle ages for exploitation



Modern times for railroad ties



Now ,Lebanon cedar is found only in a part of Anatolia.



The protected area of Lebanon cedar

Elmalı

Antalya

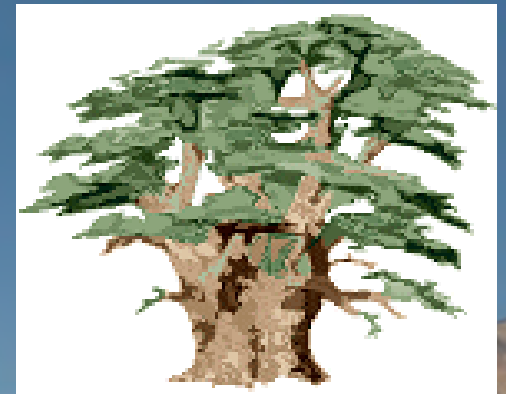


Elmalı



The forestry office

ORMAN İŞLETME MÜDÜRLÜĞÜ



## The protected area of Lebanon cedars

Area : 6,000ha

Annual rainfall : 1,000mm<

Elevation : about 1,200m

Dominant species : *Pinus brutia*

*Juperus excelsa*





*Juniperus excelsa*  
over 500 years old



Elevation : 1,500-1,800m  
Dominant species : *Cedrus libani*





Height : 38m  
Diameter : 200cm  
Age : 677 years  
Altitude : 1550m





Natural regeneration by seeds  
supply from mother trees



Damage from lightning



Tops of trees are flat.



The parasitized tree is cut.



This area has much calcium.

A scenic view of a rocky coastline. On the left, a cliffside is covered with greenery and several buildings, including a prominent white building with a red roof. The cliffside is built on a rocky outcrop. The sea is a deep blue, and a large white boat is visible in the distance. The sky is clear and blue. The text "Thank you !" is overlaid in the center in a bright yellow font.

Thank you !