

Aqua Case Musselculture area-Chalastra Thessaloniki

Exercise

Find the appropriate distance between mussel socks based on the mussel condition index

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The subject

- The farmers of Chalastra hang the suspended socks densely, leaving <40 cm between them.
- This operation exhausts the carring capacity of the mussel farm area producing underfed mussels.
- Mussel quality declines
- The future sustainability of the mussel activity in Chalastra is questionable.

The challenge

- To find the most appropriate distance between socks for the Chalastra environment.
- To help farmers understand why they have to change their practices.

Questions to answer:

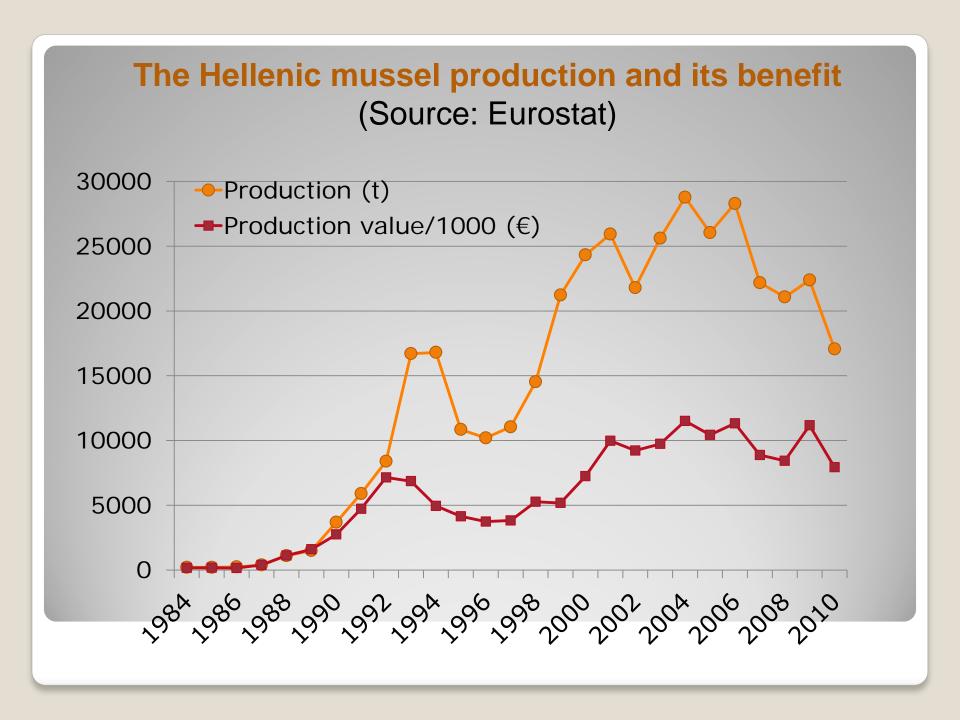
- In a mussel culture area, is the expression "more effort, more production" true?
- How do we find the best distance between socks (e.g. 50, 60 or 90 cm)?
- Which simple condition index is representative?

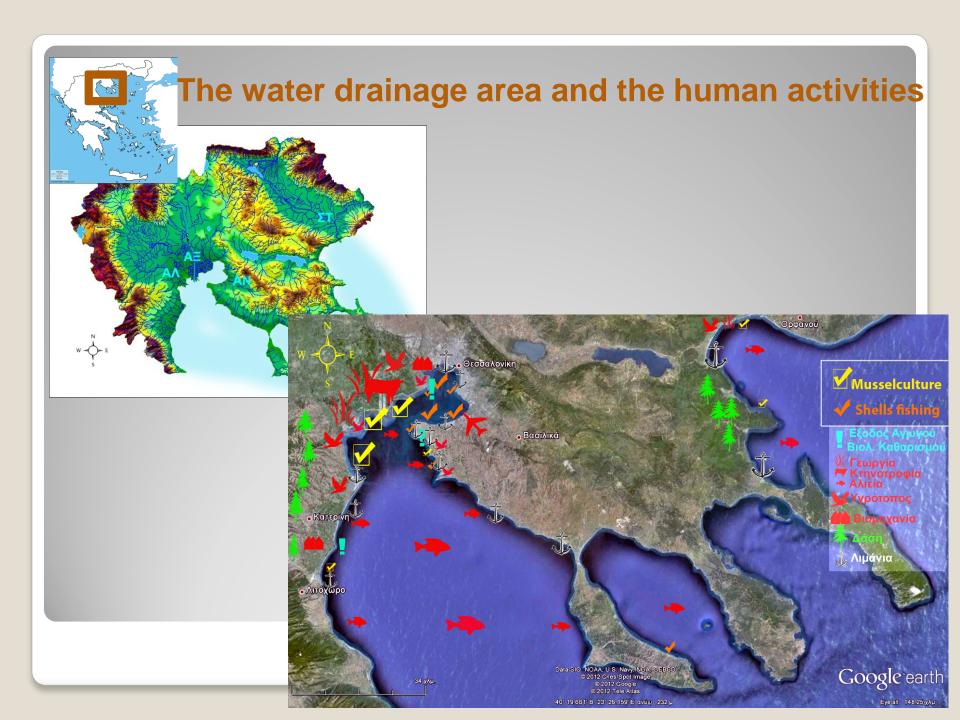
Learning goals

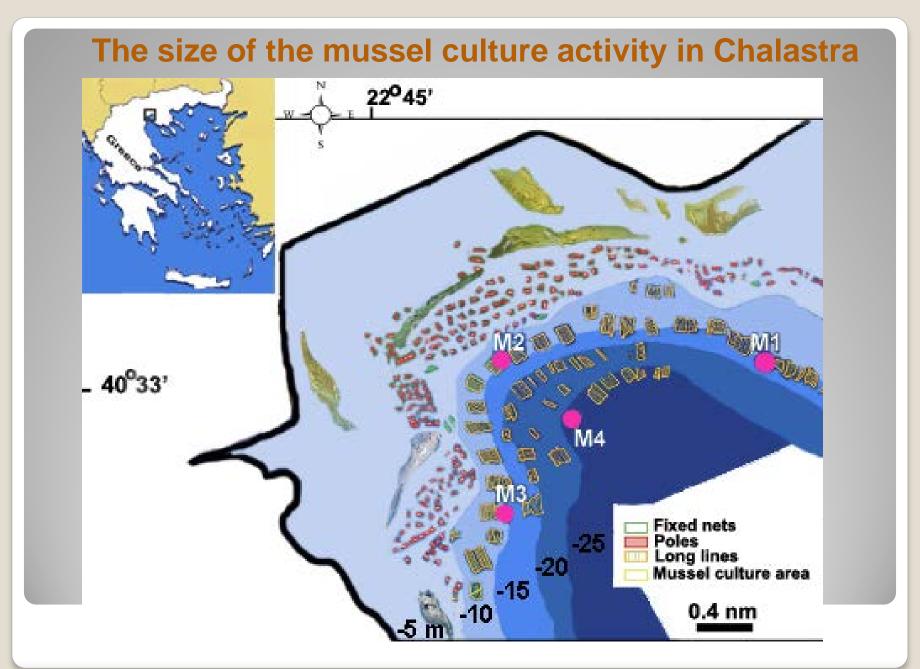
- To understand the connection between production quality and farming practices.
- To identify mussel quality in terms of condition index, using different distances between socks.
- To understand the temporal variability of the mussel condition index for production quality.
- To estimate the benefits of different practices on yields and production costs.

In addition to the case the following information is supplied

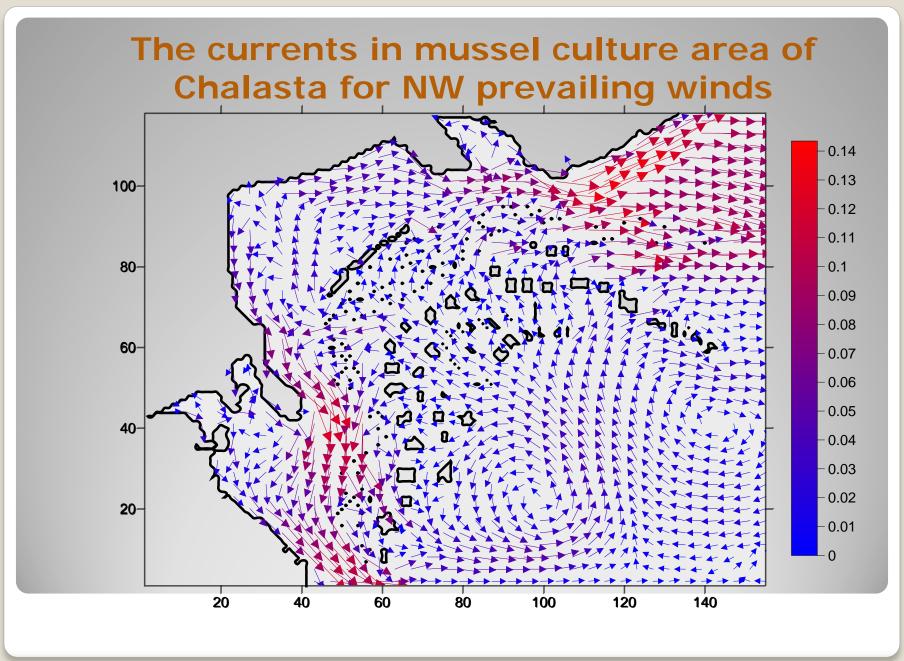
- GRAPH: Temporal variability of Hellenic mussel production and its benefit
- MAP: Water drainage area and human activities
- MAP: The extent of the mussel culture activity in Chalastra
- MAP: The hydrodynamism of the area
- MAP: Levels of chl-a in the mussel culture area of Chalastra



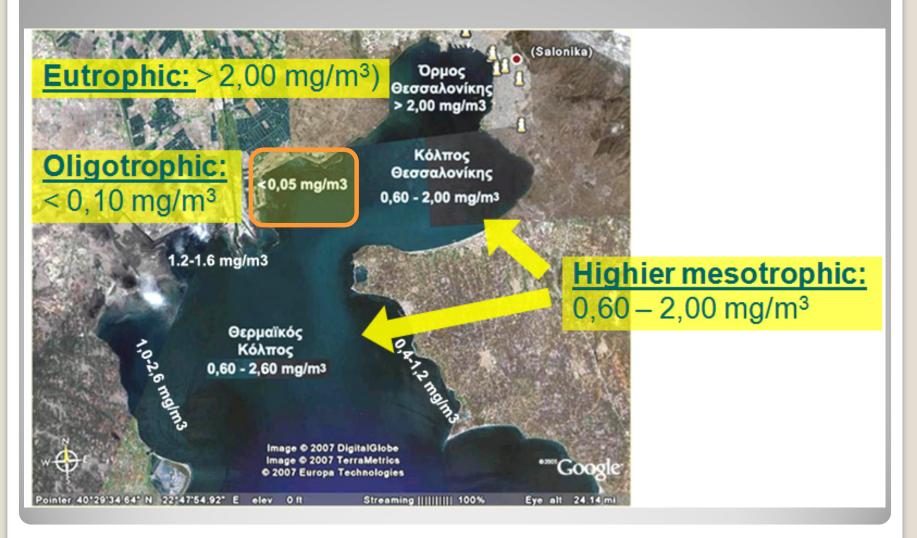




NCMR, 2000 with modifications



Levels of chl-a in the musselculture area of Chalastra



SoHelMe, 2005 with modification

Notes for teachers

- > Current status of the mussel culture activity
- Current local practices vs. legislation
- > The authorities plans
- Sociology of the farmers
- ➤ Additional Sources/References

