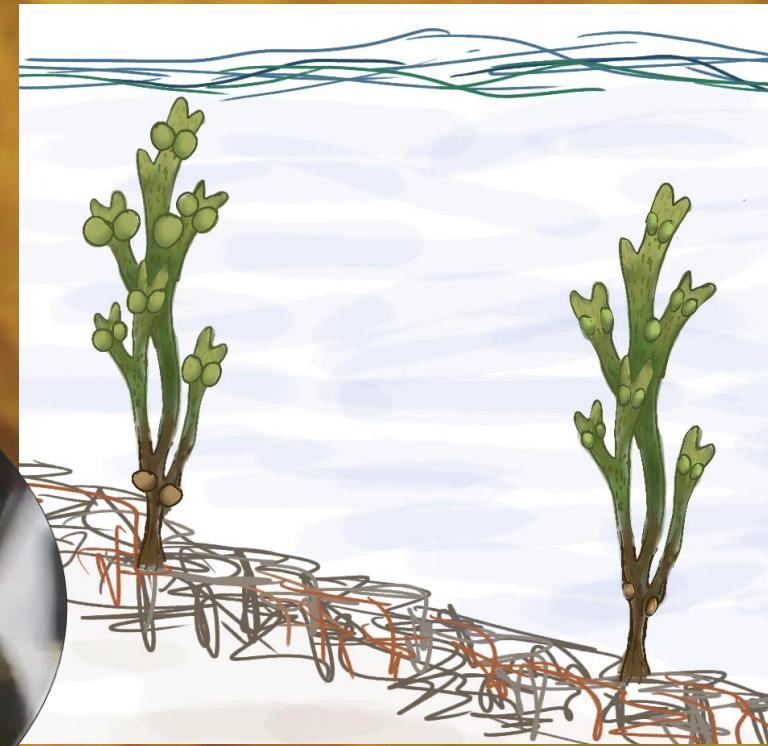
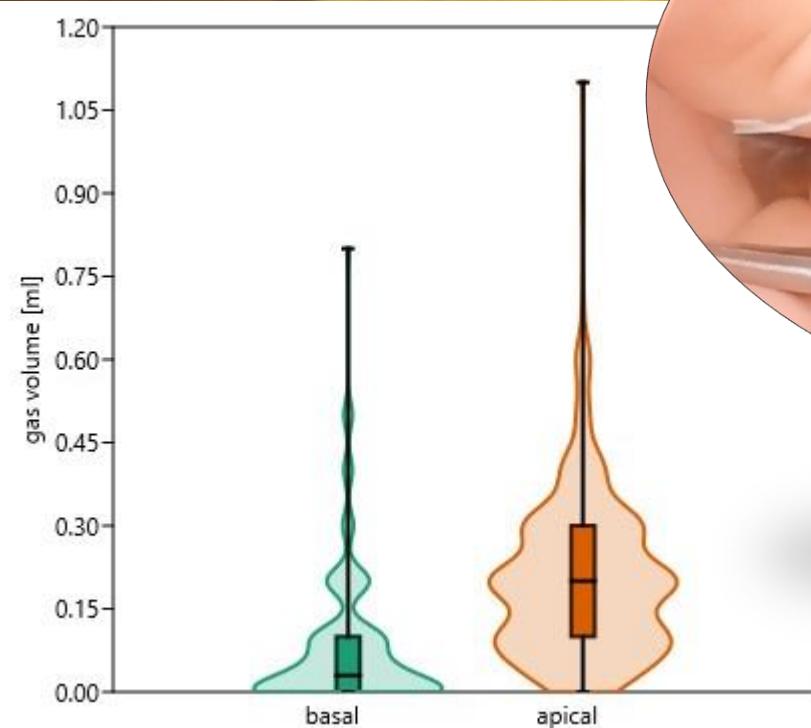


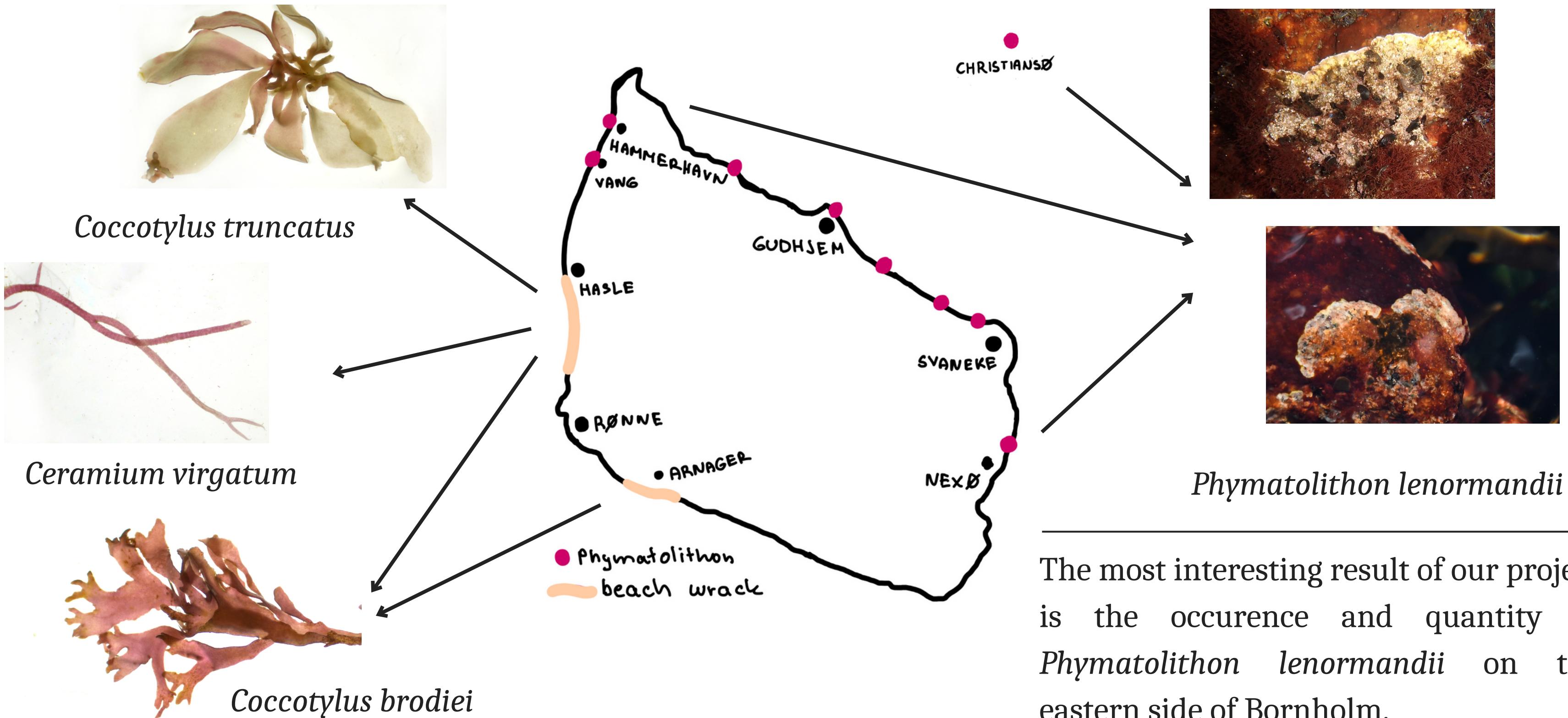
VOLUME OF AIR IN GAS BLADDERS ON *FUCUS VESICULOSUS*

According to our measurements, there's more air in the apical and also in the larger-diameter gas bladders.



It seems that the deeper the bladders are, the less gas they have.

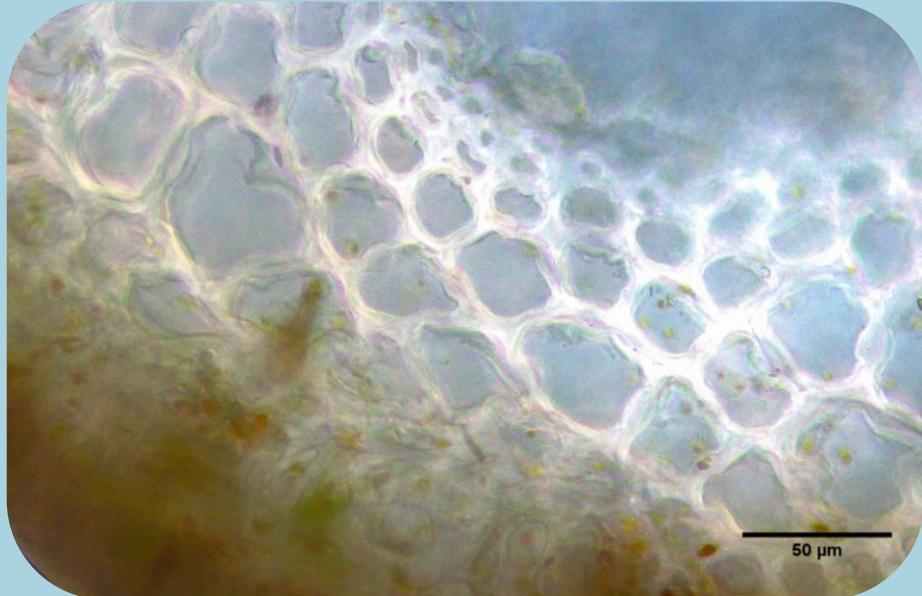
Bornholm: the easternmost range of Atlantic seaweed



The most interesting result of our project is the occurrence and quantity of *Phymatolithon lenormandii* on the eastern side of Bornholm.

Distribution and areal dynamics of *Chorda filum* algae on Bornholm

- Counting and measurement of cortical cells
- Observing the presence of setae



Daniela Kolarská, Matěj Koubek, Jan Fiedler

Epiphytes on *Zostera marina*



Dead *Zostera* leaves are covered in more cyanobacteria and less filamentous algae than living leaves, but similar species are present on them both. The epiphytes on the kelp alga *Chorda filum* are less numerous and less diverse than epiphytes on *Zostera*.

Fucus vesiculosus and *F. serratus* as hosts of epiphytic and endophytic algae

Anna Hirnerová, Jan Kapr, Veronika Veselá

- No endophytic algae detected.

- Higher diversity of epiphytic diatoms in Vang compared to Balka.

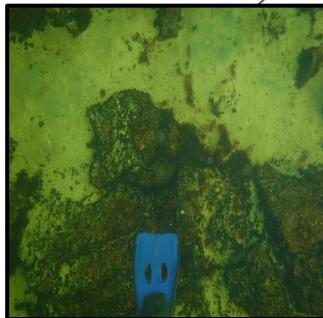
- Effect of different *Fucus* species not detected.



Population dynamics of red algae *Hildenbrandia rubra* - abundance, depth gradient, substrate preference



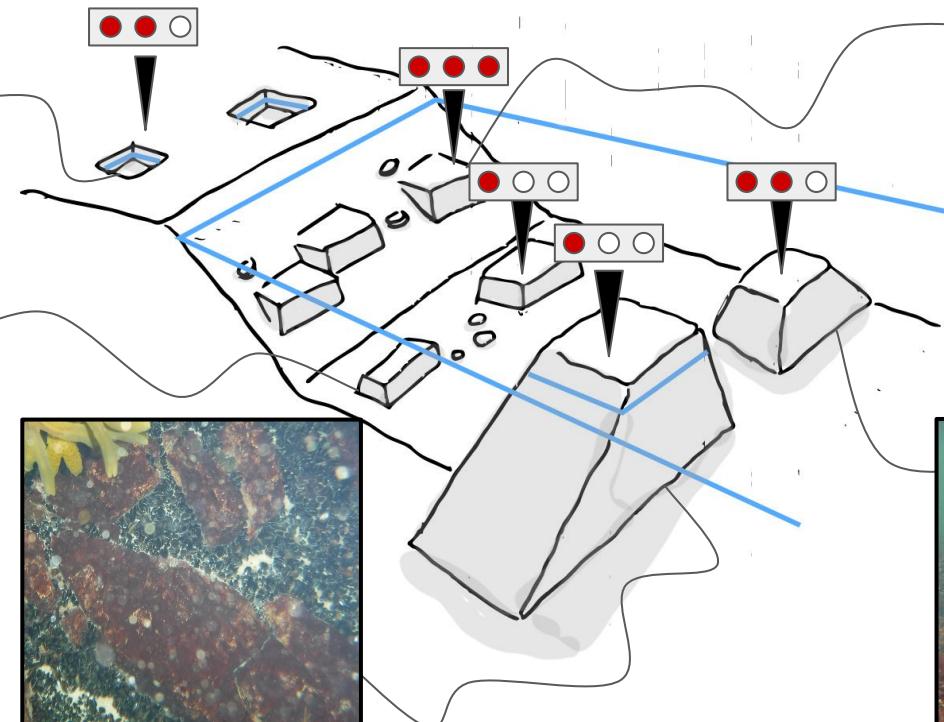
small ponds on shore



2-3 m depth

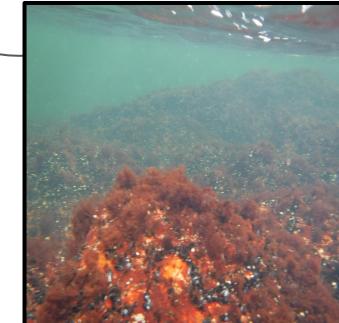


2-3 m depth, wave disturbance



< 1 m depth,
fucus belt

my favourite
place to live!



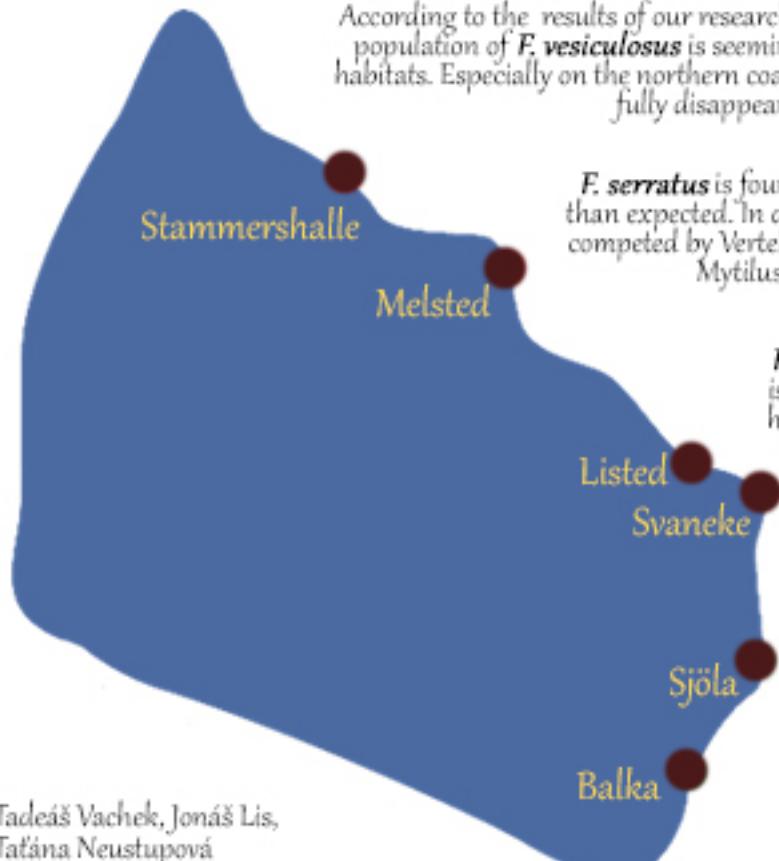
< 1 m depth, no fucus belt



Depth gradient of *Fucus vesiculosus*, *F. serratus* and *Furcellaria lumbricalis* on Bornholm

We measured depth gradient and population size and density of algae species *Fucus vesiculosus*, *Fucus serratus* and *Furcellaria lumbricalis* on the eastern and northern coast of Bornholm. We compared the results to species information sheets in HELCOM Red List.

According to the results of our research we can conclude that the population of *F. vesiculosus* is seemingly decreasing in deeper habitats. Especially on the northern coast *F. vesiculosus* sometimes fully disappears.



F. serratus is found in lesser depth than expected. In deeper habitats it is competed by *Vertebrata fucoides* and *Mytilus edulis*.

Furcellaria lumbricalis is also found in shallower habitats than expected. It is usually omnipresent but not a dominant species.



Sexual reproduction of *Fucus vesiculosus* and *Fucus serratus*



Dagmar Budd, Kristýna Tučková, Fedor Maximov



Fertility of *Fucus* populations

	<i>F. vesiculosus</i>	<i>F. serratus</i>
Balka	95%	90%
Tejn	40%	30%
Snogabaek	30%	70%
Østre Sømarksvej	90%	70%

1:1,14

