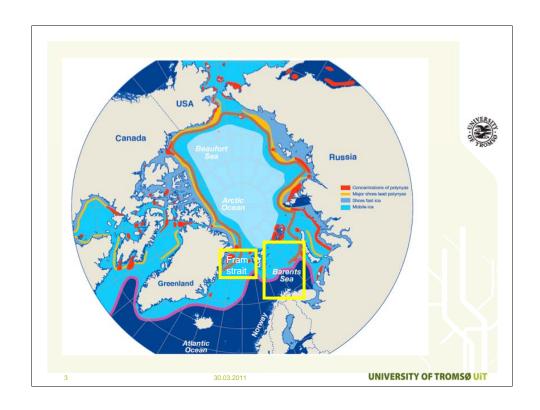
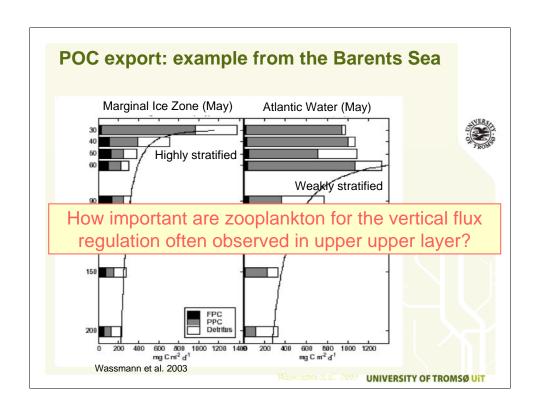


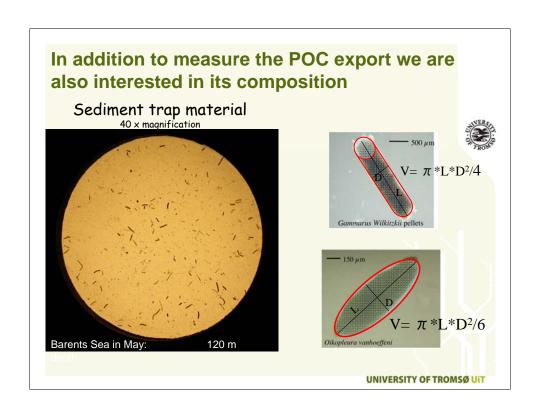
I will present data from an experiment conducted in May 2009 in Tromsø, Norvay, as part of the conflux project. Although I am the one presenting the work I want to emphasise that this is a result of a teamwork and the contribution from all authors have been essential.

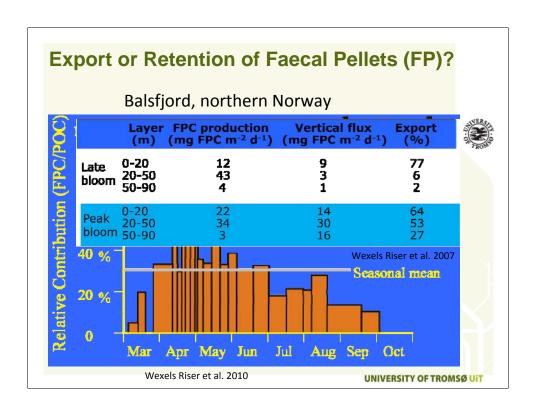


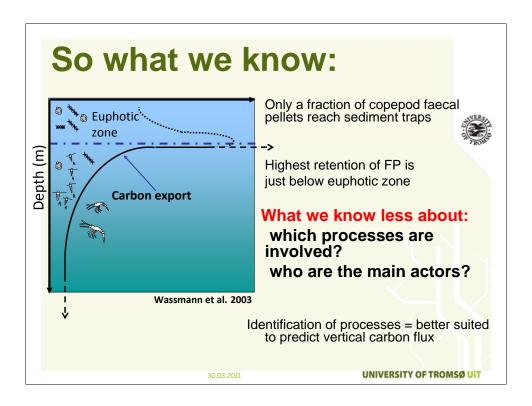
The "sedimentation team" in Tromsø have for many years studied the POC flux and its composition in the upper 200 meter, using high resolution sediment traps typically 7-8 depths





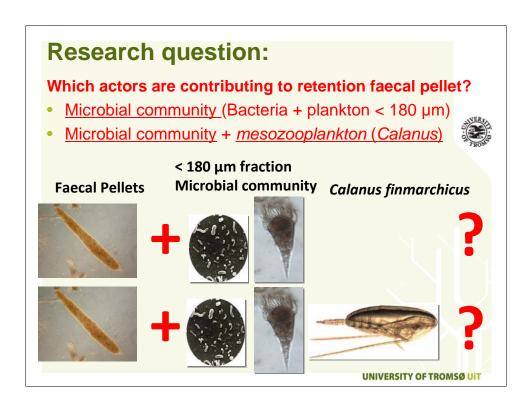


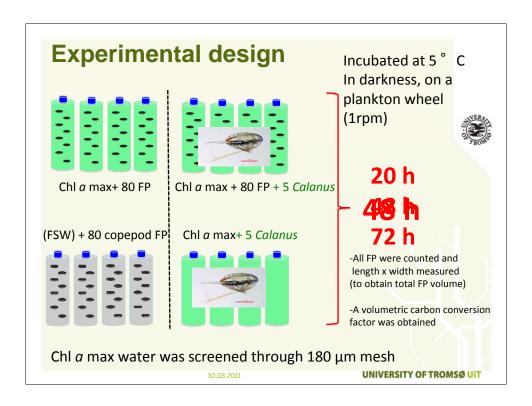




Why did we conduct this experiment? From field investigations we know that only a fraction....
In 2004 we conducted an experiment on the role of Oithona as a flux feeder.

Vårt fokus er hva som ikke synker ut og hvilke prosesser som former kurvaturen.





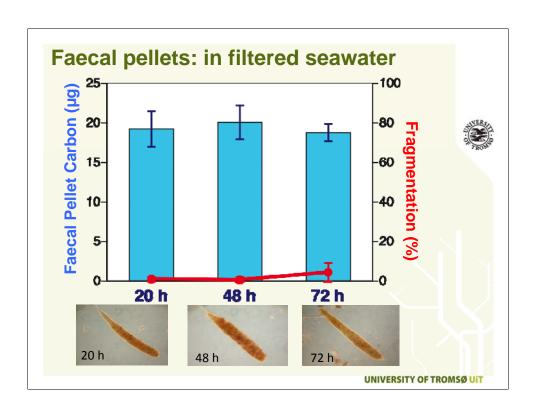
Tidsaspektet er viktig

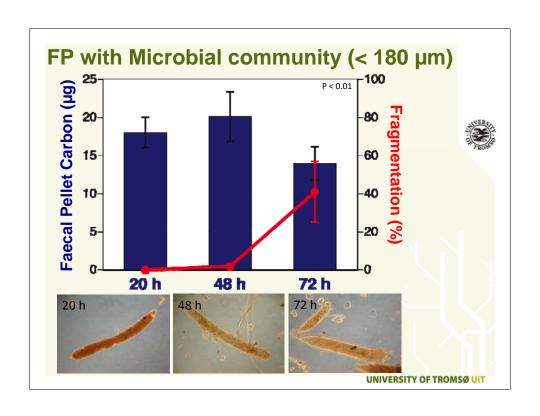
Incubation water: composition of microzooplankton (mg C m⁻³)

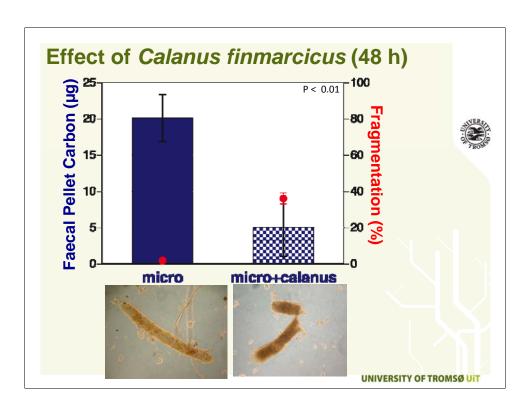
Species	20 m
Strombidium spp.	22
Laboea strobila	18
Other ciliates	10
Total ciliates	50
Athecate ESD 10-30	16
Athecate ESD 30-50	4
Other dinoflagelaltes	7
Total dinoflagellates	26
total Protozoa (mg C m ⁻³)	76
% ciliates	66



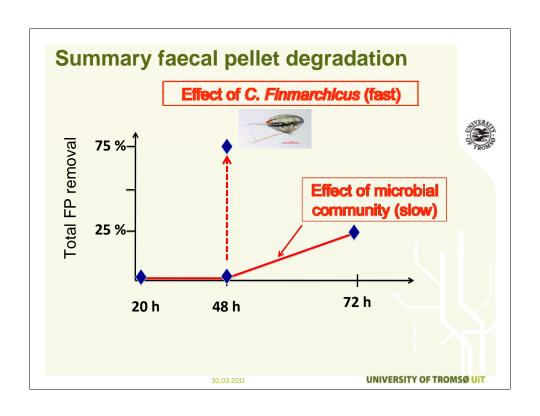
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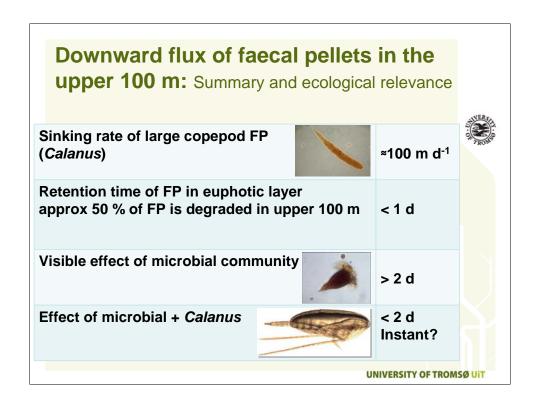






% fragmentation equal to that of 72 h incubation





Bruke god tid på denne!

Microbial større betydning ved større dyp, eller hvor man har mindre pellets med lavere synkehastighet.

Calanus gjør den første nedbrytingen mekanisk og katalyserer effekten av de mikrobielle organismene

Conclusions

 The microbial community degraded large FP at a time-scale of 3 days or more.



- Too slow to be responsible for the high degradation of large FP often observed in the upper 100 m.
- More important for deep-ocean fluxes and small FP
- Calanus may act as a "catalyst" speeding up the process of FP degradation.
- Combination of mechanical destruction of FP and microbial degradation is one likely explanation for high degradation rates of FP in coastal areas

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