

Bantry Bay (South and North Chapel)

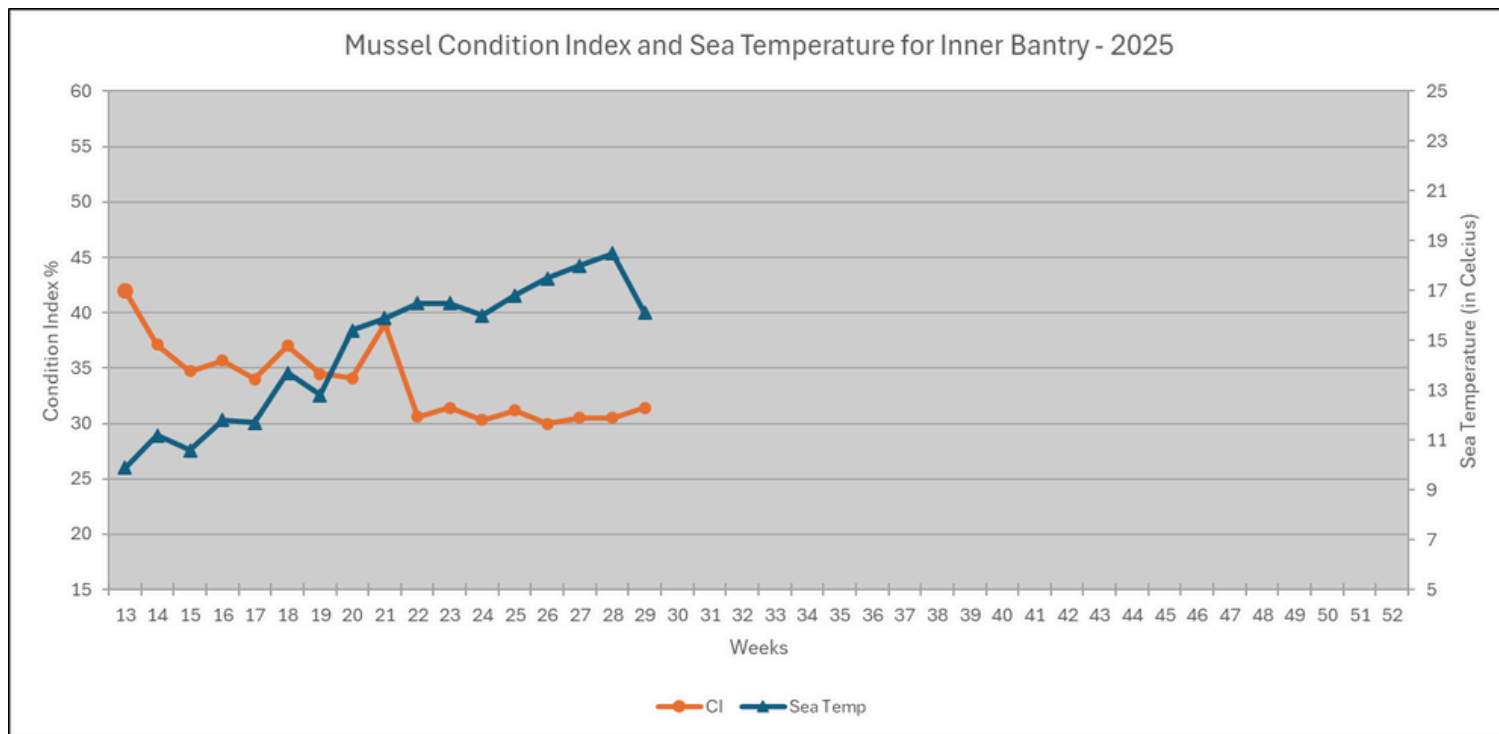
Southwest Mussel Larvae sampling

21st July 2025

Week 29 (14/07/2025 to 21/07/2025)

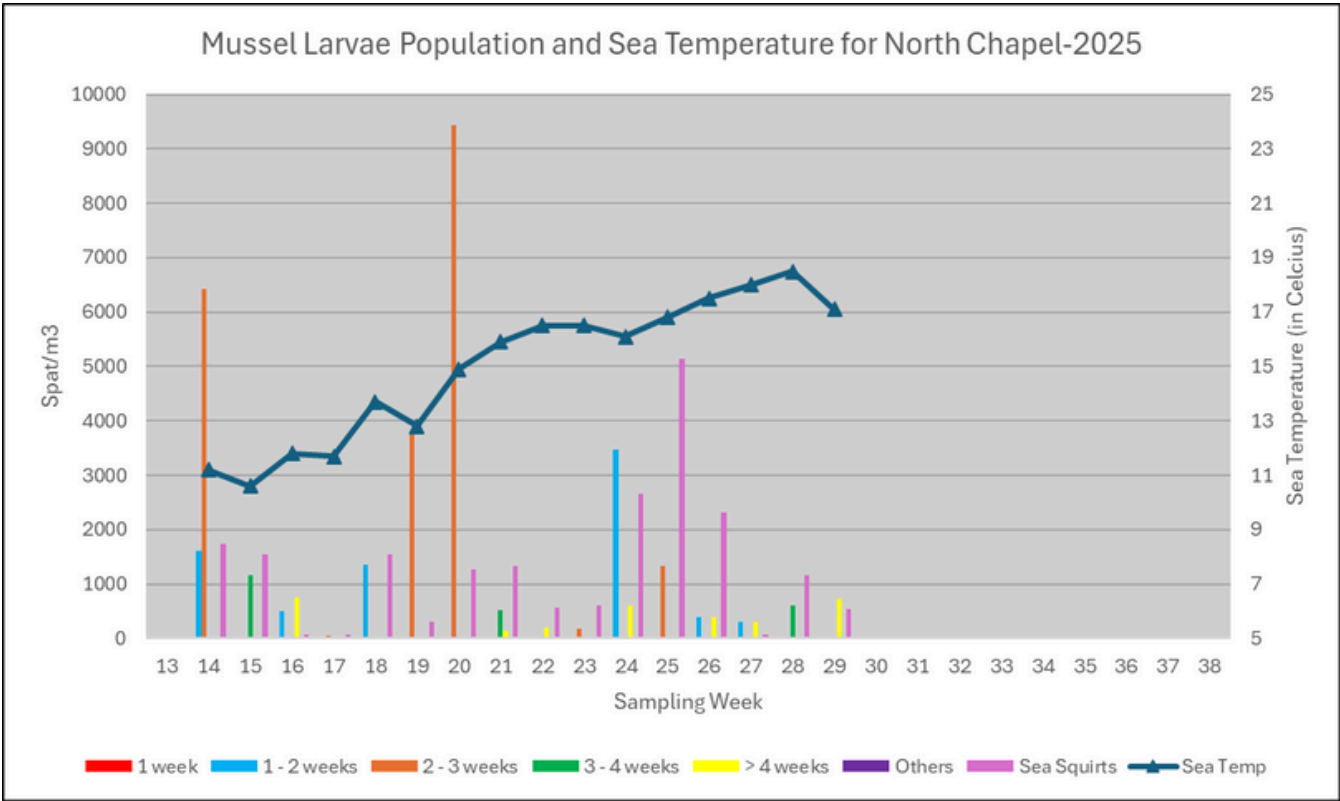
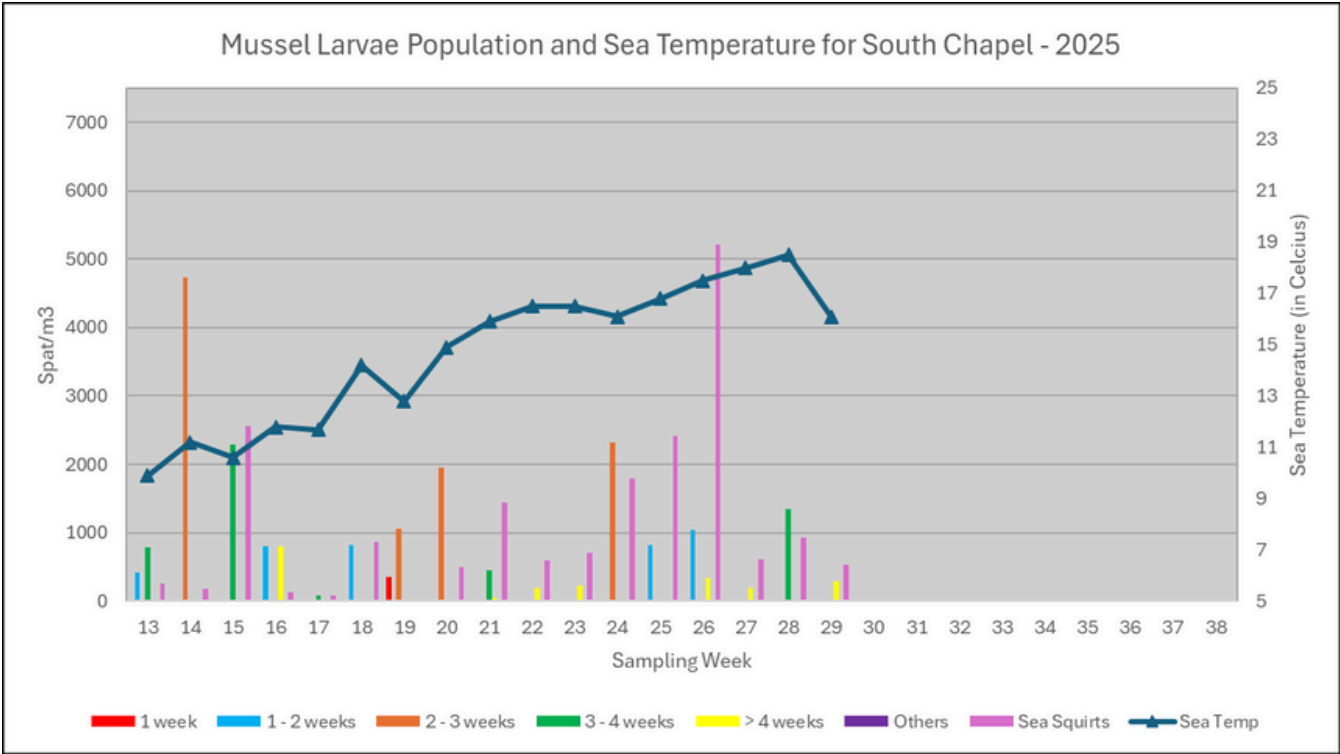


Condition Index (CI) for Inner Bantry



Larvae population evolution for Bantry (South and North Chapel)

For each sample, mussel larvae are classed by age: 1 week old, 1 to 2 weeks old, 2 to 3 weeks old, 3 to 4 weeks old, 3 to 4 weeks old, over 4 weeks old and others (younger or older).



Commentary

The Condition Index (CI) in Bantry increased slightly in Week 29 at 31.4% (+0.9% from Week 28). The sea temperature was decreased to 16.1°C (-2.4°C).

Larvae Population:

The larvae population at the South Chapel sampling site decreased significantly which could indicate some settlement. The concentration of larvae remains relevant at the North Chapel sampling site.

- South Chapel: 291 spat/m³ composed of 4 to 6 weeks old larvae.
- North Chapel: 744 spat /m³ composed of 4 to 6 weeks old larvae.

Further settlement could be expected between Week 29 and Week 31.

Sample details:

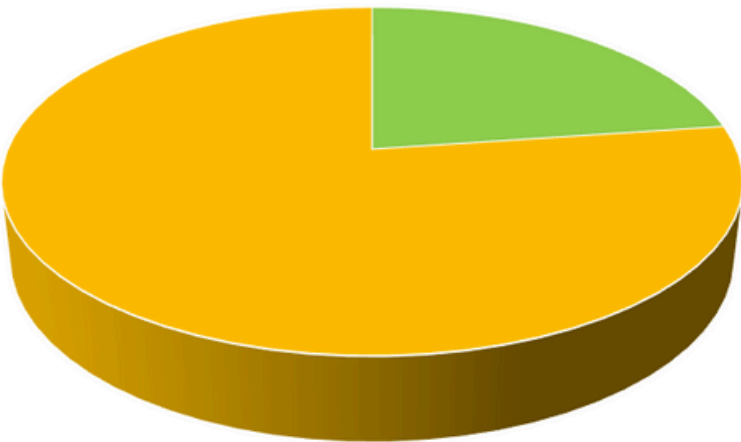
- South Chapel: The sea squirt concentration decreased to 533 ind./m³. The sample presented high levels of mixed copepods and low concentrations of a second bivalve species, sea matting, tubeworm and barnacles. There was also a very high concentration of *Ceratum fusus*.
- North Chapel: The level of sea squirt dropped to 548 ind./m³. The copepods concentration was medium, while starfish, sea matting and sea urchin levels were moderate. The phytoplankton biomass in the sample was very high with *C. fusus* dominant.

The decrease of sea squirt concentration at the North Chapel station is likely due to some possible settlement.

The phytoplankton sample for Week 29 increased to 67,760 cells/litre, dominated by dinoflagellates (77%) and known food source species (33%).



Phytoplankton Distribution



Known Potential Dinoflagellate