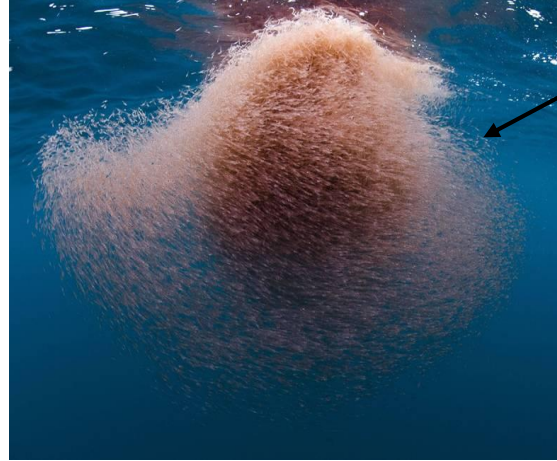


Krill Swarm Behaviour



Individual



Swarm

Antarctic Krill

- Small crustaceans (6 cm)
- Live in huge swarms (10,000–30,000 individuals/m³)
- Critical factor in the Antarctic food chain.

Interesting variables:

- Swimming speed (individual)
- Speed variation
- Swimming direction (individual)
- Current
- Swimming speed swarm
- Swimming direction swarm
- Formation



Agent-based Model

Expected

Simulating factors influencing swarm movements

- Variation and slow individuals slow down the swarm
- Current has a huge impact