

# Marine heatwaves in the Archipelago Sea – coping mechanisms



Åbo Akademi University  
Lucinda Kraufvelin, Christian Pansch, Sarah Rühmkorff, Giannina Hattich

In a shallow bay in the Archipelago Sea there lived five friends

My name is Bladdy the Bladderwrack.

My friends call me Russell, the bluemuskel.

The name is Perch. Perry Perch.

I'm Mya, I'm a sand gaper.

Hellooo! My name is Crabby. I'm new in this neighbourhood.

As the summer days passed and the sun shone brighter, something weird was slowly building in the calm bay

Hey guys, I really don't want to worry anyone but...

WHAT?! WHAT IS IT PERRY?

Oh noooo!! It's an army of eiderducks coming to eat me and all of my family?! Isn't it Perry? ISN'T IT? Oh silly me, I should have known something bad was going to happen! I've had nervous sweats for days!

Shhh! Calm down everybody and let Perry speak! I'm sure that whatever this threat is, I can defend myself against it with my big claws.

Help! I'm really scared

Marine heatwaves

Don't you guys feel it? It feels **HOT!** Like, unusually hot!

Now that you mention it, yes! I've had some more algae growing on me than usual, and green algae likes heat. Don't you green algae?

Yeeees! Heat good! Heat nice!!

Oh so that's why I'm sweating. Phew! No eiderducks then. All is well. I'm sure the heat will pass.

Hmm... I don't really like heat...

Hehehe! Are you guys SERIOUSLY so bothered about the weather? There is barely any heat! Way cooler than I'm used to back home!

Mobility

Sorry guys, I'm out of here! It might be cooler at my cousins place deeper down.

Microclimates

Yup! That settles it for me! If Perry is leaving I think it's time to dig in! I have a feeling it might be cooler deep down in the sand

Metabolic depression

Gulp! I guess I'll just have to wait this out then.

Woow look guys! Some bladderwrack to hide from the perch in! Primereal estate! Let's stop here to seek shelter and feed!

Habitat-forming species

Welcome to Bladdys BnB! I can't move away from the heat but I'm happy to help others find shelter in my branches. And while you're at it, please could you eat away at all of this green algae?

No problem! Thank you! (But please don't be mad if we also eat some of you.)

TPC

Wow this place emptied out fast! All alone now... What should I get up to? ... I'm kind of hungry... Wait... No, I'm REALLY hungry! I need to eat! Like right now. And a lot! Anything (or anyone) would do!

Post heatwave

Hey guys, my cousin sends his regards! How is everyone doing? Not too stressed I hope.

That was rough... I feel kind of sick actually. Are there some pieces of me missing? No biggie, it will all be fine, I think.

Pheeeew, is it safe to come out yet? There is very little air down in the sand, but it was cooler!

Thanks for providing the buffet Bladdy! I have never felt better!

Scan for further information on all concepts explored in this poster

