

#### Marine Severin

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# **Oceans and Human Health**





European MARINE BOARD





# What is "well-being"?





#### Hedonic well-being

- Happiness
- Life satisfaction
- Absence of stress and negative affect

#### Eudaimonic well-being

- Personal growth
- Positive relationships
- Purpose in life
- Self-acceptance





# Well-being in marine policy









What emotions are triggered by the coast and to what extent do they explain the coast's positive impact on well-being?



- Awe: perception of something bigger than oneself and need for accommodation
  ⇒ aesthetic beauty and vastness
- Nostalgia: sentimental yearning for the past ⇒ timelessness and unchanging nature
- Nature connectedness: subjective sense of one's relationship with the natural world
  ⇒ increases during visits to the coast







# **Emotional pathways**





⇒ these emotions might partly explain why the coast benefits well-being







## Coronasurvey

#### Effect of access and visits of the coast on well-being







Severin et al. (2021). Influence of the Belgian Coast on Well-Being During the COVID-19 Pandemic. *Psychologica Belgica, 61*(1), pp. 284–295. DOI: <u>https://doi.org/10.5334/pb.1050</u>



# Coronasurvey

Effect of access and visits of the coast on well-being



- April 22<sup>nd</sup> June 8<sup>th</sup>
- N = 687 adults living in Flanders



#### Estimated Marginal Means of Well-Being Indicators



- Access to the coast associated with higher well-being during lockdown
- Coast-induced awe negatively correlated with boredom
- ⇒ Utilize coastal exposure to protect well-being for future crises





Emotions experienced at the coast and their influence on well-being

- How do <u>coastal residents</u> make sense of the emotions they experience at the coast?
- What role do these emotions play on their well-being?



Participant pseudonym	Sex	Age	Living situation
Arne	Μ	NA	Grew up and lives near the coast
Emma	F	22	Grew up near the coast and lives inland in student room
Justine	F	22	Grew up near the coast and lives inland in student room
Noa	F	22	Grew up and lives near the coast
Anna	F	22	Grew up near the coast and lives inland in student room
Louis	Μ	22	Grew up near the coast and lives inland in student room
Laura	F	25	Grew up inland and lives near the coast
Victor	Μ	21	Grew up and lives near the coast



Emotions experienced at the coast and their influence on well-being

• Semi-structured interviews



- How would you describe your relationship with the sea throughout your life?
- What specific emotions do you feel when you are at the coast?
- What effect does experiencing these emotions have on you?

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Emotions experienced at the coast and their influence on well-being

Interpretative Phenomenological Analysis



- 1. Read transcript of interview and make descriptive, linguistic, and conceptual notes.
- 2. Develop emergent themes based on the notes and the transcript.
- 3. Cluster themes together to create a table of overarching themes.
- 4. Repeat steps 1-3 for each participant.
- 5. Compare the individual table of themes with each other.
- 6. Construct a **final table of superordinate themes** that stems from all participants and includes individual exceptions.





Emotions experienced at the coast and their influence on well-being

Emotional restoration



Coast as a safe haven

Awe

Emotion regulation







Emotions experienced at the coast and their influence on well-being

- Coast's multisensory and symbolic qualities => complex emotions and adaptive emotion regulating processes
- Beneficial impact on the well-being of young coastal residents
- Possible contributors to the coast's therapeutic potential





## From the qualitative to the quantitative...







#### **Experimental study**

Effect of coastal landscapes on stress, coping strategies, and pro-environmental attitudes





## **Experimental study**

Effect of coastal landscapes on stress, coping strategies, and pro-environmental attitudes







## **Experimental study**

*Effect of coastal landscapes on stress, coping strategies and proenvironmental attitudes* 

- Measure control variables
- Pre video Mentally visualize a past stressful moment for 1 minute
  - Report stress level

Video clip

Post video

clip

clip

- Watch video clip of either a beach with a sunset, coastal dunes, or an urban street, either with or without plastic
- Report stress level
- Measure emotions felt during the video
- Measure coping strategies and pro-environmental attitudes









#### Thank you for your attention!



