Waddenlab

Presenters:

Rob de Jong – Noorderpoort

Lauritz Dauer – TU Twente

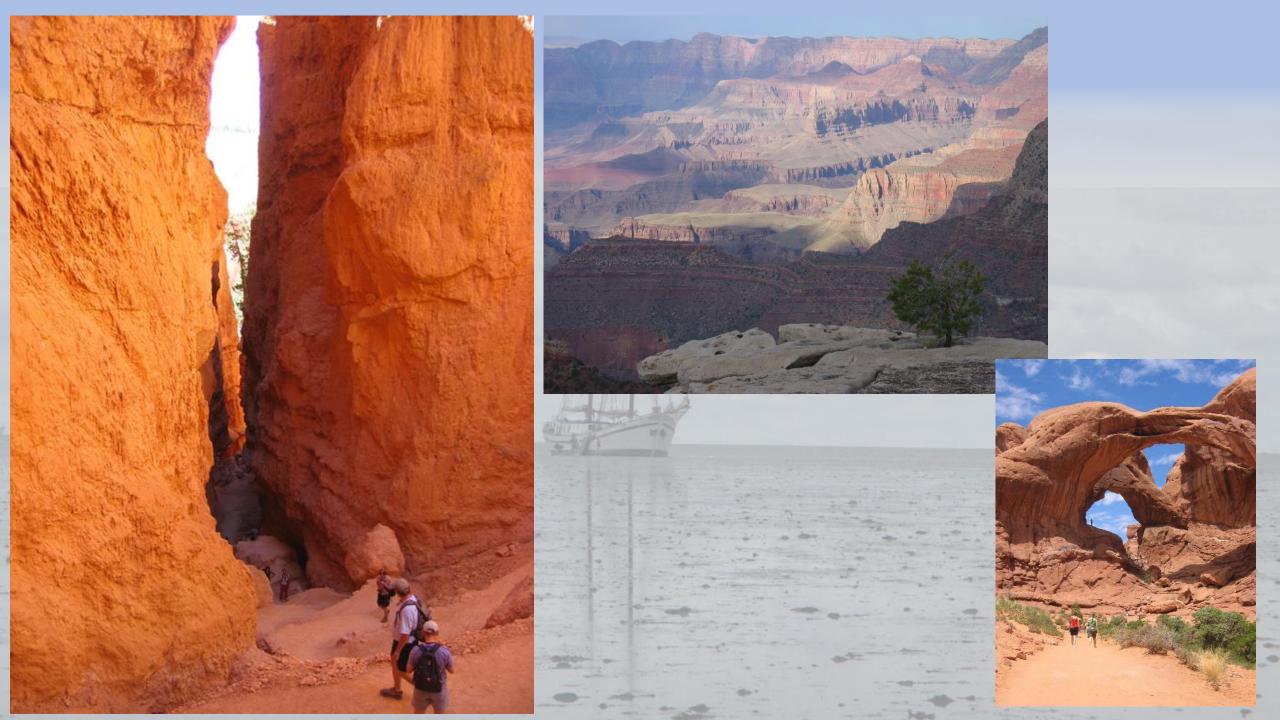
Ron Weerheijm – Hogeschool Rotterdam



Waddenlab: How to keep the Wadden sea healthy?

- Idea: Partners in the Park, organizing an event that gives insight in nature
- the complexity of nature 'overwhelms' the participants,
 who rarely leave their hometowns
- In the US: huge National Parks like Yellowstone, Brice or the Grand Canyon
- Student were literally overwhelmed by 'nature', in all kinds of aspects

(see here: https://youtu.be/Em4sDc07R7M)



How to transform that to the Netherlands?

- What area would fit?
 Veluwe?
 Wadden sea is almost the only 'vast and complex' area
- And more: only very little of that nature is visible, what makes it even more complex
- o Islands, water, coast, mud, animals



How to prepare students for that vastness and complexity?

- Theoretical preparation:
 Wadden Academy, doing research in, on and about the
 Wadden sea
- Students determined what themes to work on:
 - Beauty, People's Mind, Ecosystem, Chemical Pollution,
 - Preserve & Conservation
- Themes were prepared by students in groups in four Saturdays and by groups online



'Extra' in 2023

- In 2023: 'natural philosopher' *Matthijs Schouten* gave a lecture on:
 - what can be our 'contract with nature', how do we ourselves relate to nature?
- Mind-blowing lecture on how we see nature: are we in the top of the pyramid or are we fully part of nature and all in between?
- Based on ideas from Aristoteles 'reign' over nature to nowadays 'to inter-be' with nature

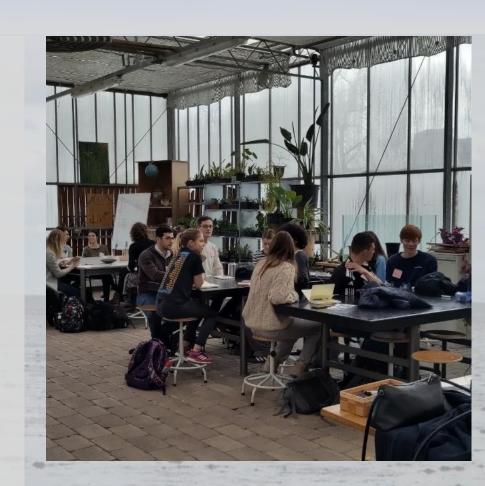


That's how we started the 7-day trip



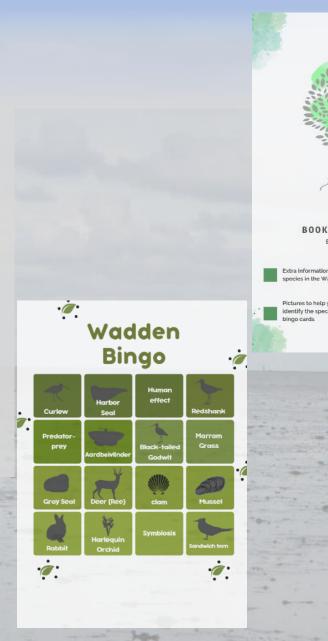
New Group Ecosystem

- 1. Getting to know each other
- 2. Choosing and getting to know the Theme
- → Learning about the Ecosystem on the Wad
- 3. Developing Aim
- → Provide Opportunities to engage on a deep level with our theme
- → Workshops as a self-learning process
- → Learn outside utilising nature as a direct reference



Execution

- 1. Booklet
- → Tool to store and share relevant information
- 2. Bingo Letting Students immerse in our theme
- → Jozful learning experience throughout the trip
- 3. Meet Experts at Natuurmonumente in Texel



Conclusion of the Trip

Evaluation

Successful Project Execution

Additional learnings in Sailing and other Themes

- Interconnectedness of nature
- Not everything went as planned

Memorables

- Growing together as a group
- Experiences in Nature

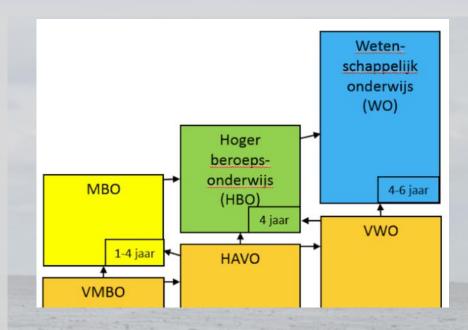






 MBO (vocational education), HBO (applied sciences) and Universities

- Honors and Excellent Students can apply
- A total of 28 students can participate
- A total of 6 tutors can participate
- Participating institutions must pay a fee (1.000 e)
- Participants pay a personal fee (100 e)
- subsidized by Wadden Academy



- 4 applied science institutions
 - Avanshogeschool
 - Hanzehogeschool
 - HogeschoolRotterdam
 - HogeschoolUtrecht
- o 2 universities
 - Eindhoven University of technology
 - Twente University of technology
- 2 vocational education institutions
 - Noorderpoort
 - Yuverta



- The Waddenlab research is divided into 3 consecutive phases
- Preparation days
 - January, March, April and June
- Execution, Sailing days
 - July 15 to 22 July 2023
- Evaluation day
 - October



- Preparation days
 - Talk leading experts on Wadden sea
 - Getting to know each other
 - Students constructing research questions
 - o **BEAUTY**
 - CHEMICAL POLLUTION
 - PRESERVATIONE & PROTECTION
 - PEOPLE'S MIND
 - ECOSYSTEM

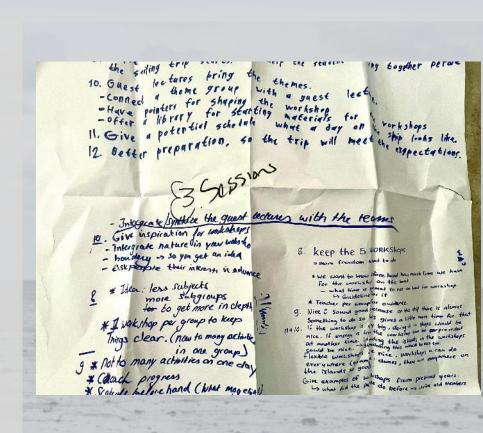


Sailing days

- Sailing instructions
- Explanations to the group
- Carrying out the research
- Group participation
- Sharing the proceeds
- Foodpreperation etc.
- SAILING



- Evaluation day
 - o TIPS
 - Sailing
 - Food things
 - Depth of research
 - o TOPS
 - Incredible experience
 - gained even more respect for fragile nature
 - Flexible workshops are nice
 - Sailing



About the scope:

- The aim was to get students to be aware of the complexity of the Wadden sea
- The 'driving' question was 'How to keep the Wadden sea healthy?'
- Then: would each theme expose a piece of that supposed complexity?



About stimulating learning:

- The themes they worked on were derived from the group and studied with the group
- The themes were used by the students to design their own sessions during the trip on the ship
- Theoretical input was provided through:
 - the 'system' of nature, ecology;
 - morphology of the Wad;
 - SDG's and how to 'read' them;
 - nature and philosophy (or philosophy in nature)



About boundary crossing:

- Students bring their own education and back grounds;
- Also bring their personal 'focus' on knowledge
 mbo hbo wo back grounds
- For all students the subject 'Wadden sea' was new and unknown, so new area to explore



About learning results:

- Students learned not only about the complexity of nature, but also about its interconnections and dependencies
- Students learned what the Wadden sea itself, how it works, why it is there, how the water runs, sand (we were grounded twice)
- They learned about their theme and how to learn it to others: by workshops, role plays, bingo's, future literacy, doing tests,
- And they learned how to sail on open water



About the evaluation:

- Different perspectives between students are appreciated

 education wise, they hardly noticed differences between mbo-hbo-wo
- The importance of feeling 'a group'! (community)
- The complexity of the Wadden sea has become clearer
- For all students: the complexity of nature as a 'system' is an understanding that has grown strongly (also thanks to philosophy in nature by Matthijs Schouten)



Thank you



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Waddenlab