

Coastal Dynamics 1 (CIE4305)

Judith Bosboom, Yorick Broekema, Alejandra Gijón, Stuart Pearson

Section of Hydraulic Engineering

Please get a paper copy of the exam from one of the boxes
(and don't forget to hand it in again after the lecture!)

TU Delft Delft University of Technology
Challenge the future

Extra lecture

Contents

- A. April 2015
 - 1. Detached breakwaters (Judith)
 - 2. Bar migration transport gradients (Yorick)
 - 3. Tangier (Alejandra)
 - 4. Zuiderzee (Stuart)
- B. Exam info (Judith)
 - Approximate topics
 - Exam procedure and rules
 - Important dates

TU Delft 8. Longshore transport and coastline changes 83

Exam info


Type of questions

A typical exam consists of four topics, each consisting of various questions (approx. 6-8):

1. Cross-shore processes and morphodynamic development
2. Alongshore processes and morphodynamic development
3. Coastal inlets and tidal basins: processes and morphodynamic development
4. In-depth question about one specific topic (this can be anything and will be different every time)

Exam info

Announced in lecture of April 5

1. **Cross-shore:** Bar migration, growth, see April 2015 exam, etc.
2. **Longshore:** Those detached breakwaters again! But now link morphodynamic response to various contributions in alongshore forcing, etc. 
3. **Basin:** Another Dutch inspiration (different from the Zuiderzee). Velocity in mouth, disturbance by dam construction, effect on hypsometry etc. etc.
4. **In-depth:** Transport due to tidal asymmetry, shape of tidal velocity signal, amplitudes and phases various harmonic components, slack durations etc.

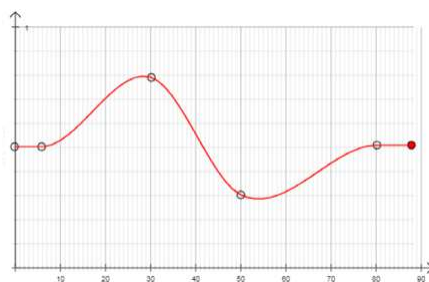
Exam info

Procedure

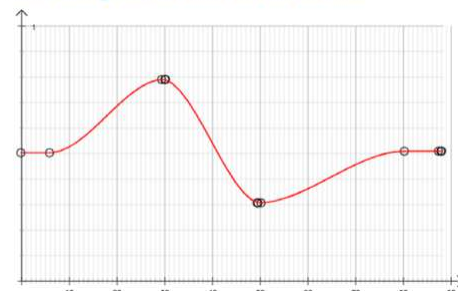
- Posted on Brightspace a few days before the exam
- You must know how to use the Windows calculator
- All answers including drawings and essays in Maple TA.
- Digital and paper copy of pdf available
- Make your drawings on the paper copy too (only as a back-up)
- Timer does not indicate remaining time properly!

Exam information

Drawing polygons with MathApps



After using Max at $x=30$ and Min at $x=50$



Review your trial exam Gradebook and report any issues!

Exam info

Important dates

- Question hours:
 - Friday April 6th at 12:30-13:30 in S3-00.1.057
 - Tuesday April 10th at 12:30-13:30 in S3-00.1.057
 - Tuesday April 17th at 12:30-13:30 in S3-00.1.057
- Exams:
 - April 18th
 - Retake June 29th
- Exam Review:
 - April 30th and May 1st (and July 6th)

Exam info

Questions?

- Please hand in your hand-out!
- If you happen to have a clicker, please hand it in soon!
- Good luck with your exam(s)!