

GEUS 5-6. okt. 2016

## WP 5 - TRENDS

**TReNDS**

Transport and Reduction of Nitrate in Danish Landscapes at various Scales



Innovation Fund Denmark

RESEARCH, TECHNOLOGY & GROWTH



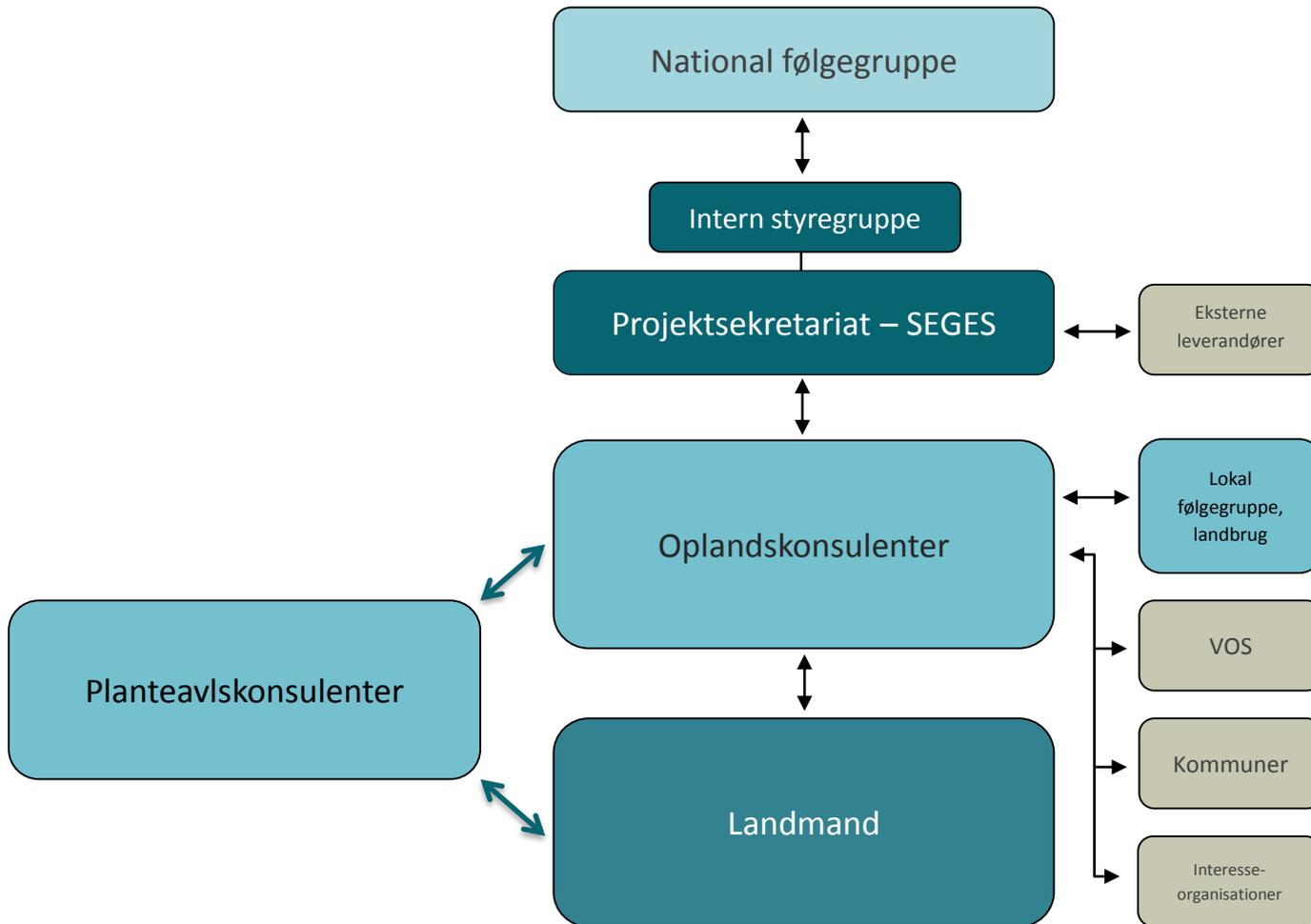
# GOVERNANCE ACTIVITIES

- Workshop with farmers (Norsminde Fjord Oplandsråd) 24<sup>th</sup> nov 2016 (TReNDS/Soils2Sea)
- Science workshop 28-29<sup>th</sup> nov 2016 CPH
  - Title: “Water co-governance framework development -an overview of potentials and barriers for decentralized decision-making” (TReNDS / Soils2Sea / WaterCoG)
- “local based waterplan”
  - Meetings with municipality
  - Meetings with water council / local agriculture union
- Testing - “Catchment based approach” with catchment “officer”

## OPLANDSKONSULENTER

- 28 oplandskonsulenter
- [www.oplandskonsulenterne.dk](http://www.oplandskonsulenterne.dk)
- Arbejder uden beregning for landmanden





# MONITORING TECHNICS

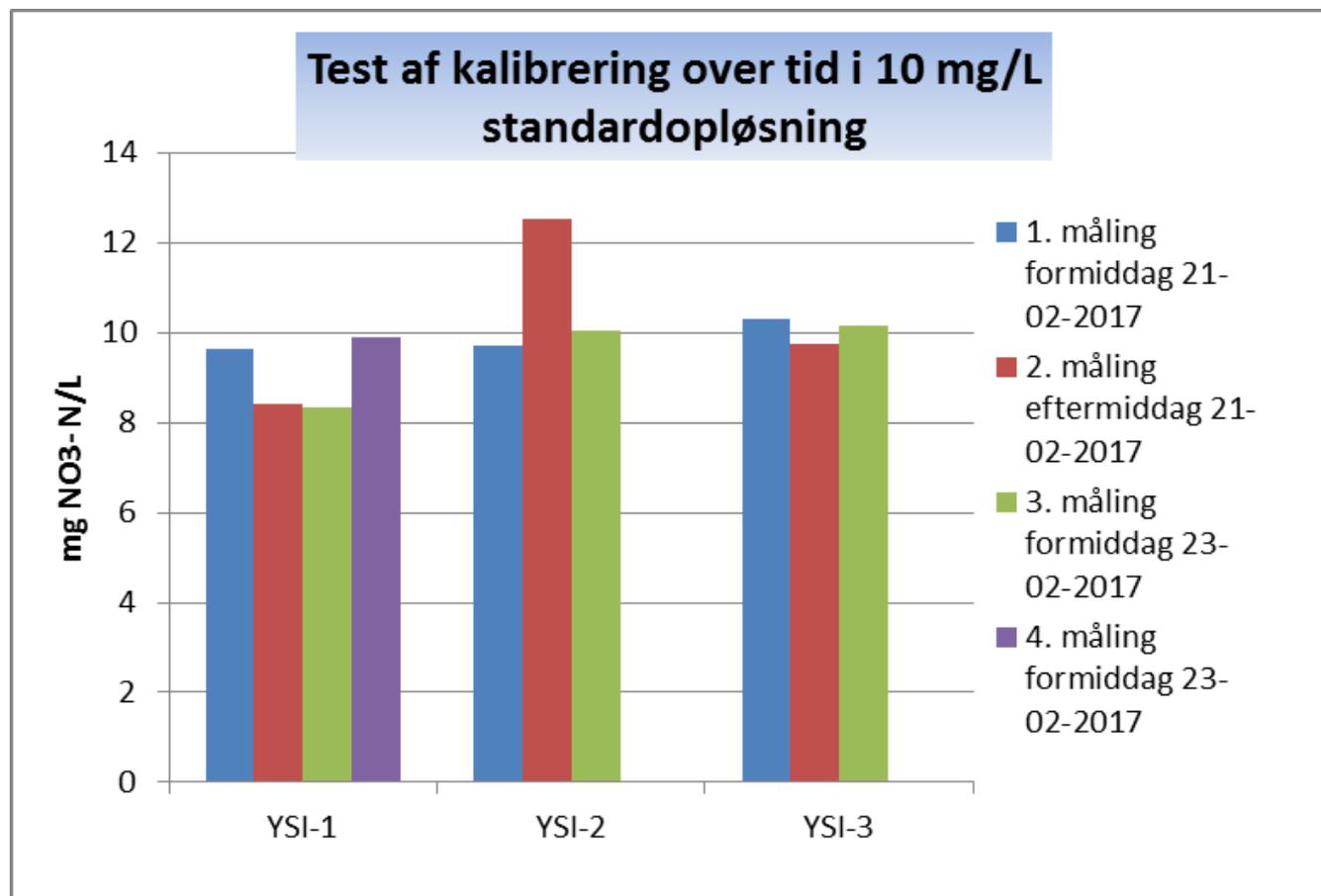
- Nitrate strips
- Mobile application for nitrate data



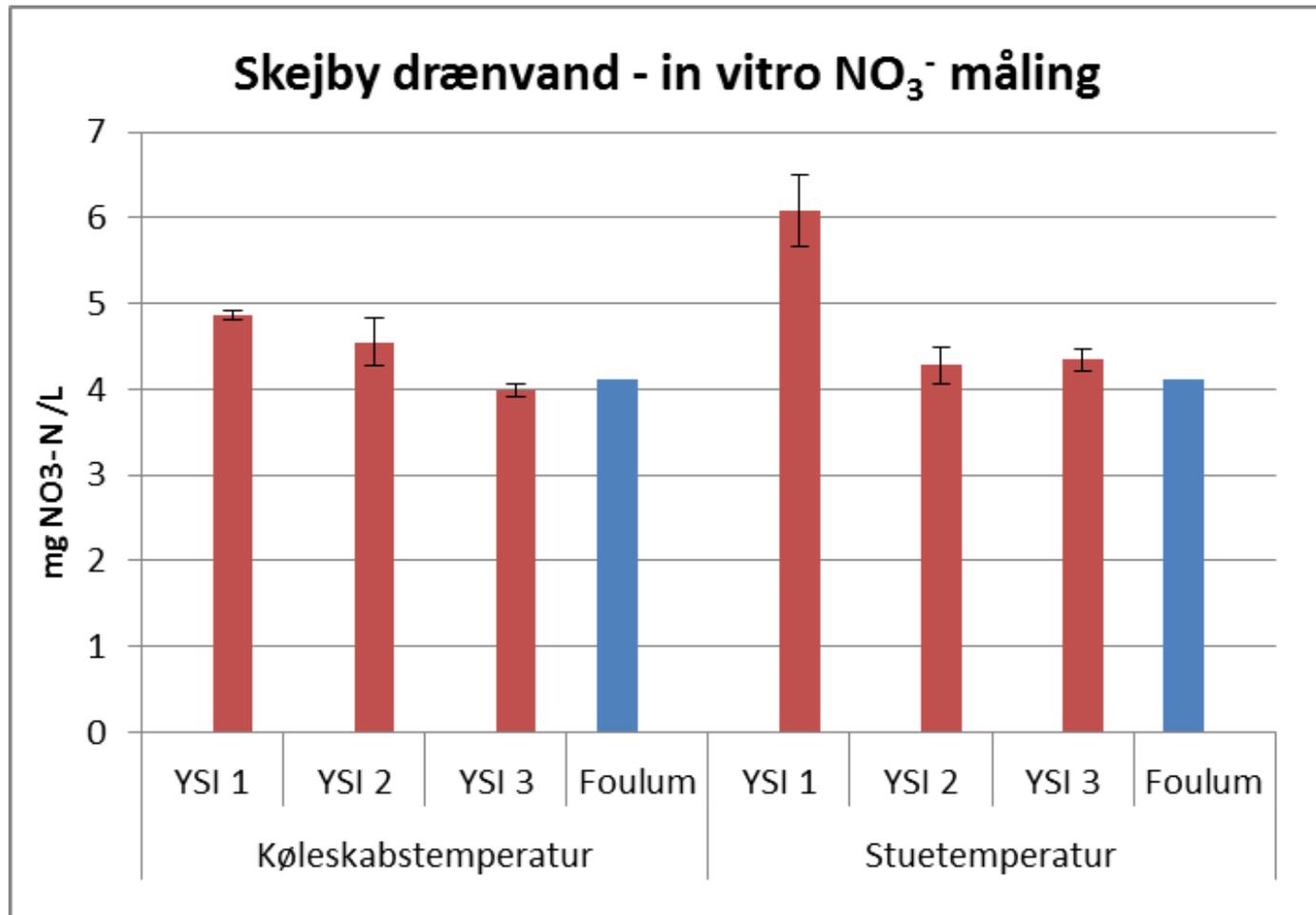
YSI Professional Plus Nitrate sensor



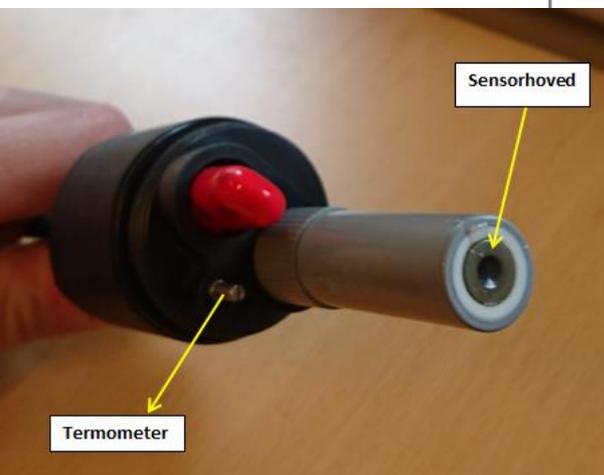
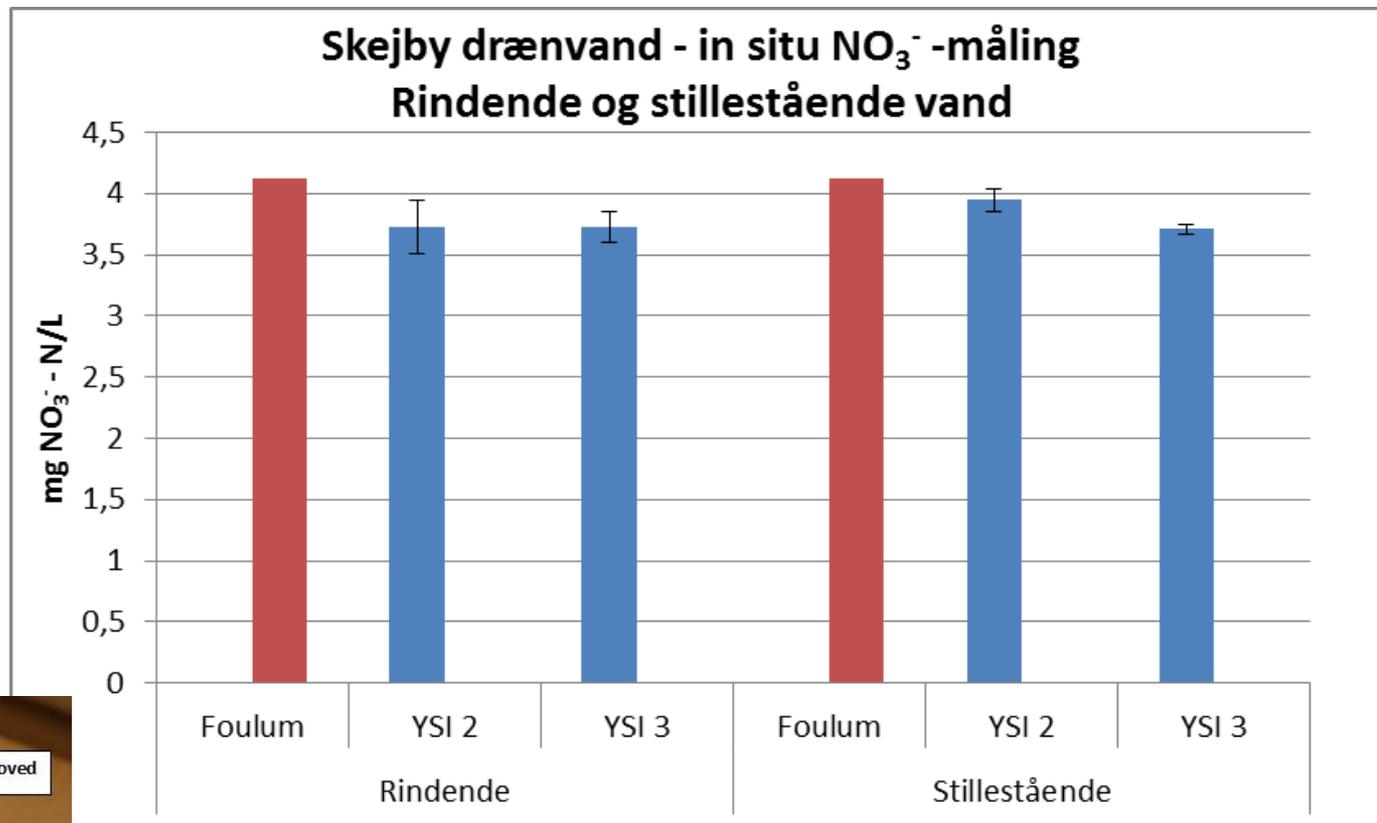
# YSI PROFESSIONAL PLUS NITRATE SENSOR



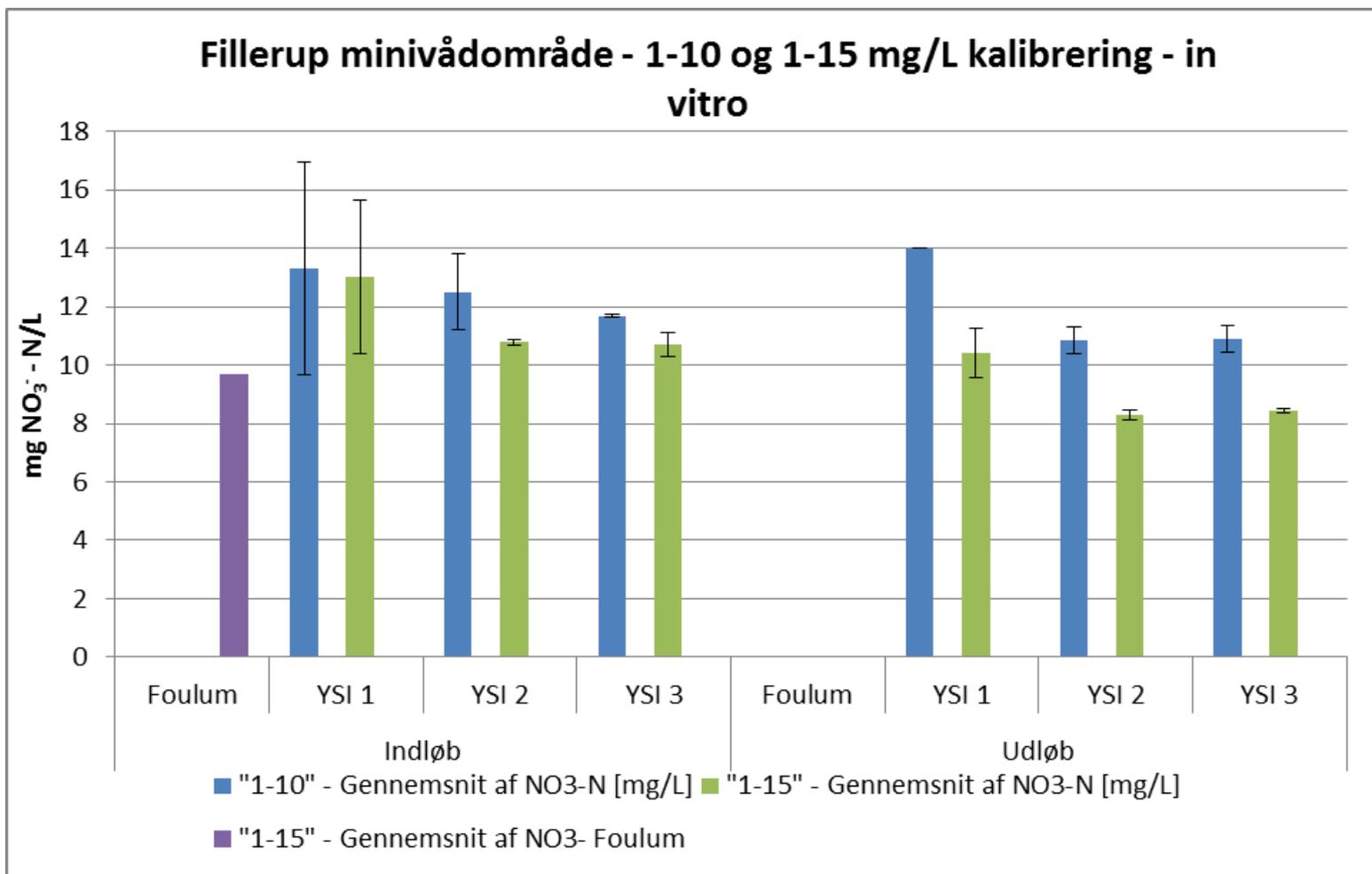
# YSI PROFESSIONAL PLUS NITRATE SENSOR



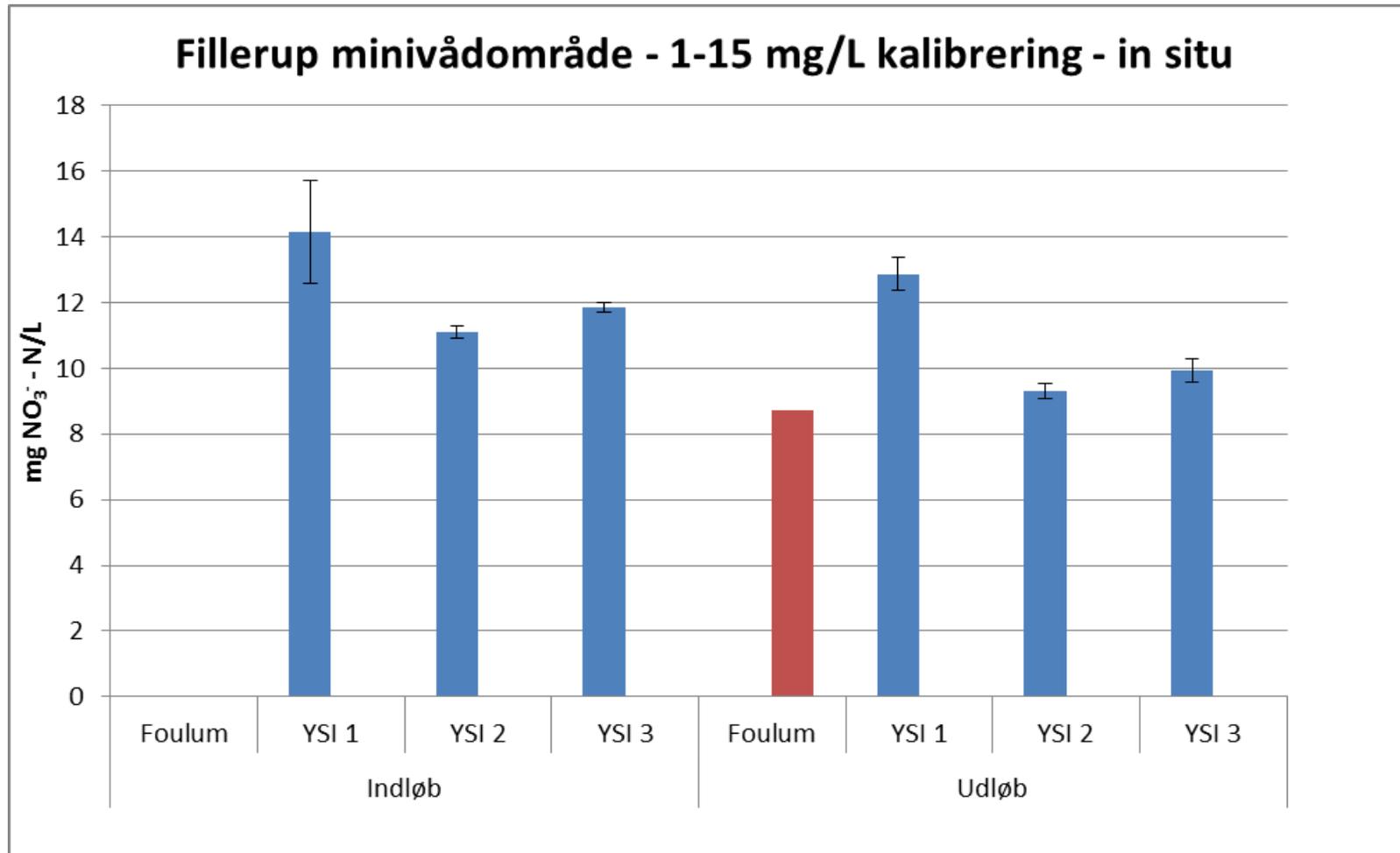
# YSI PROFESSIONAL PLUS NITRATE SENSOR



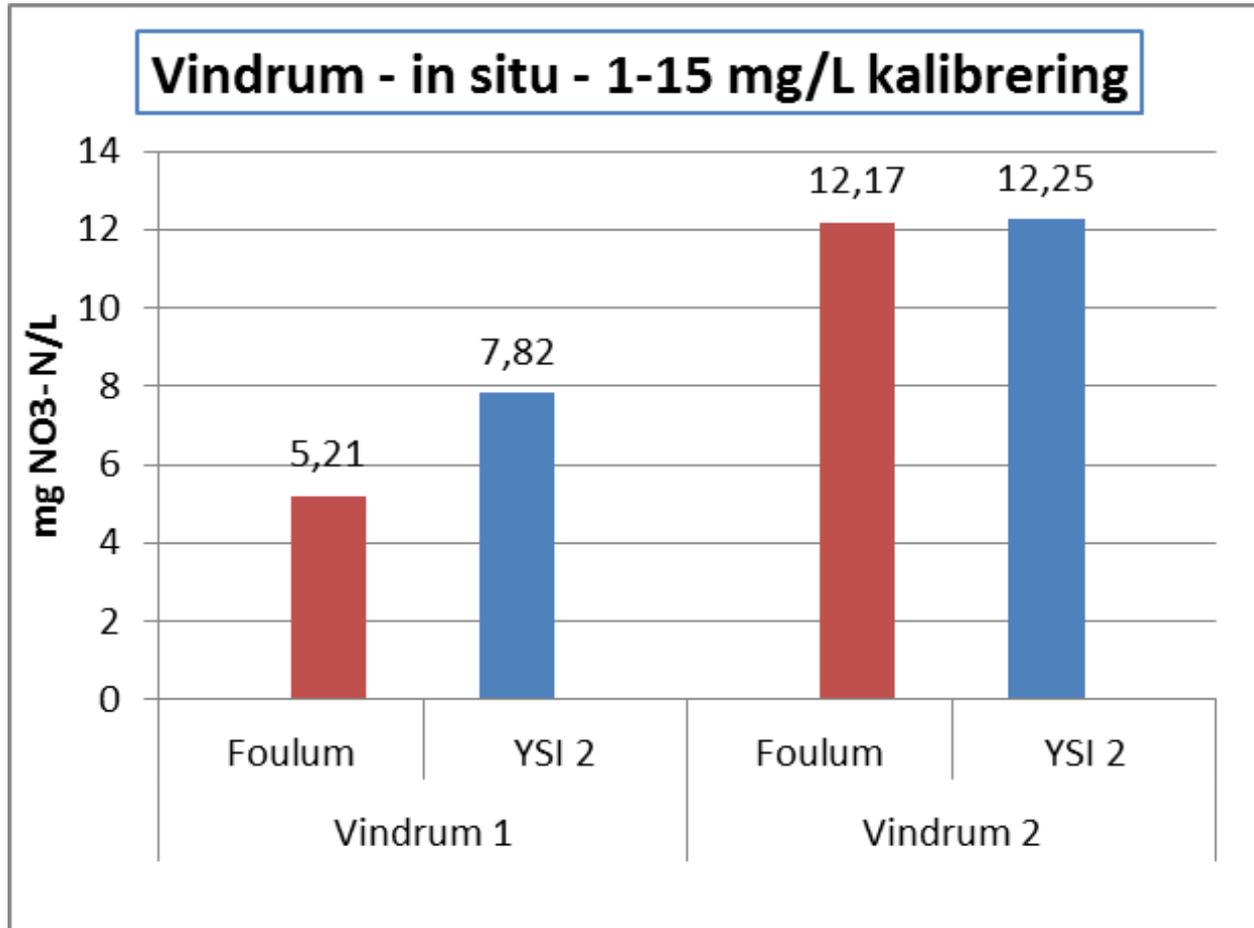
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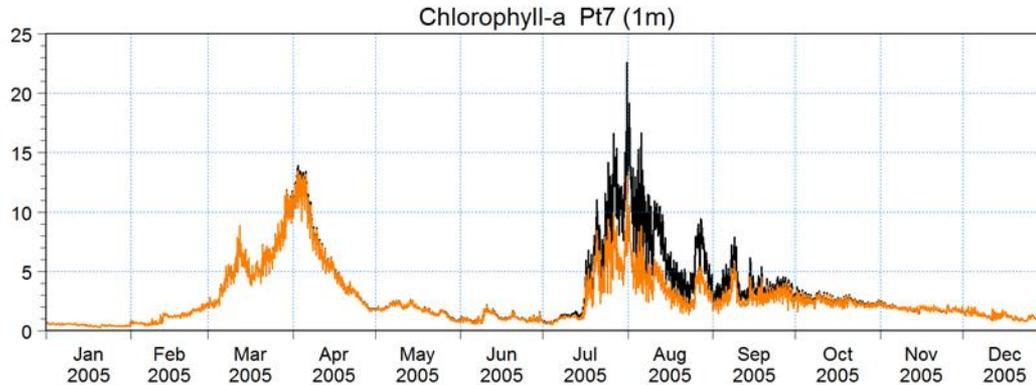
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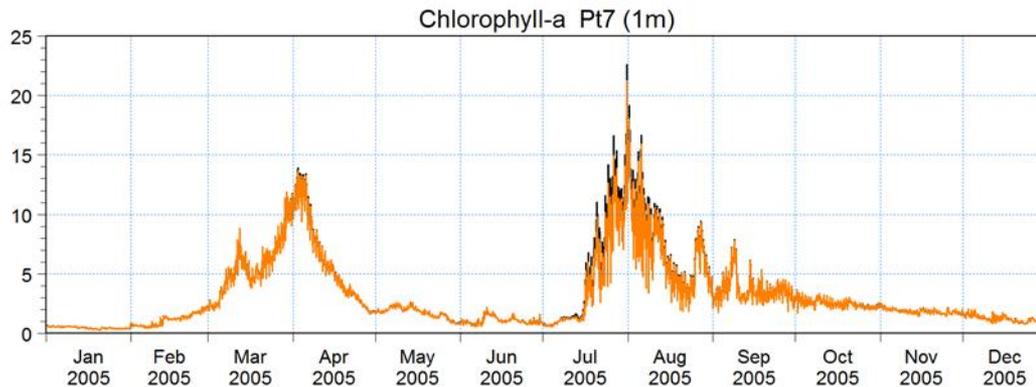
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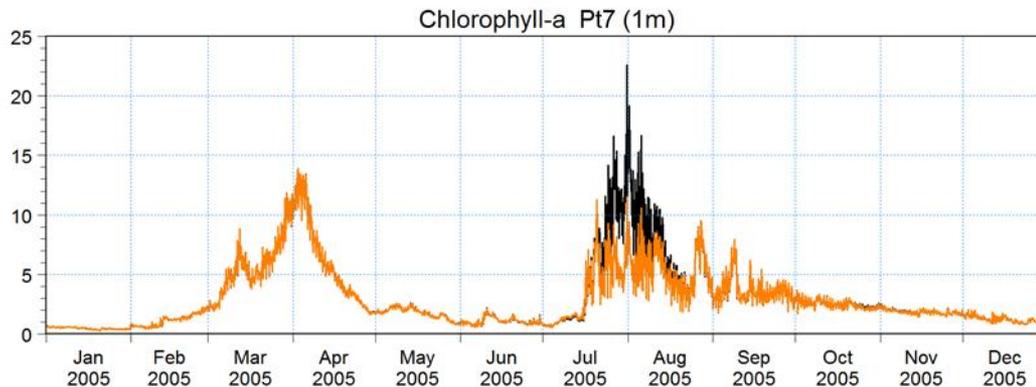
# TARGETED REGULATION - TIMING



26% reduction all 12 month  
- 325 tons N/year



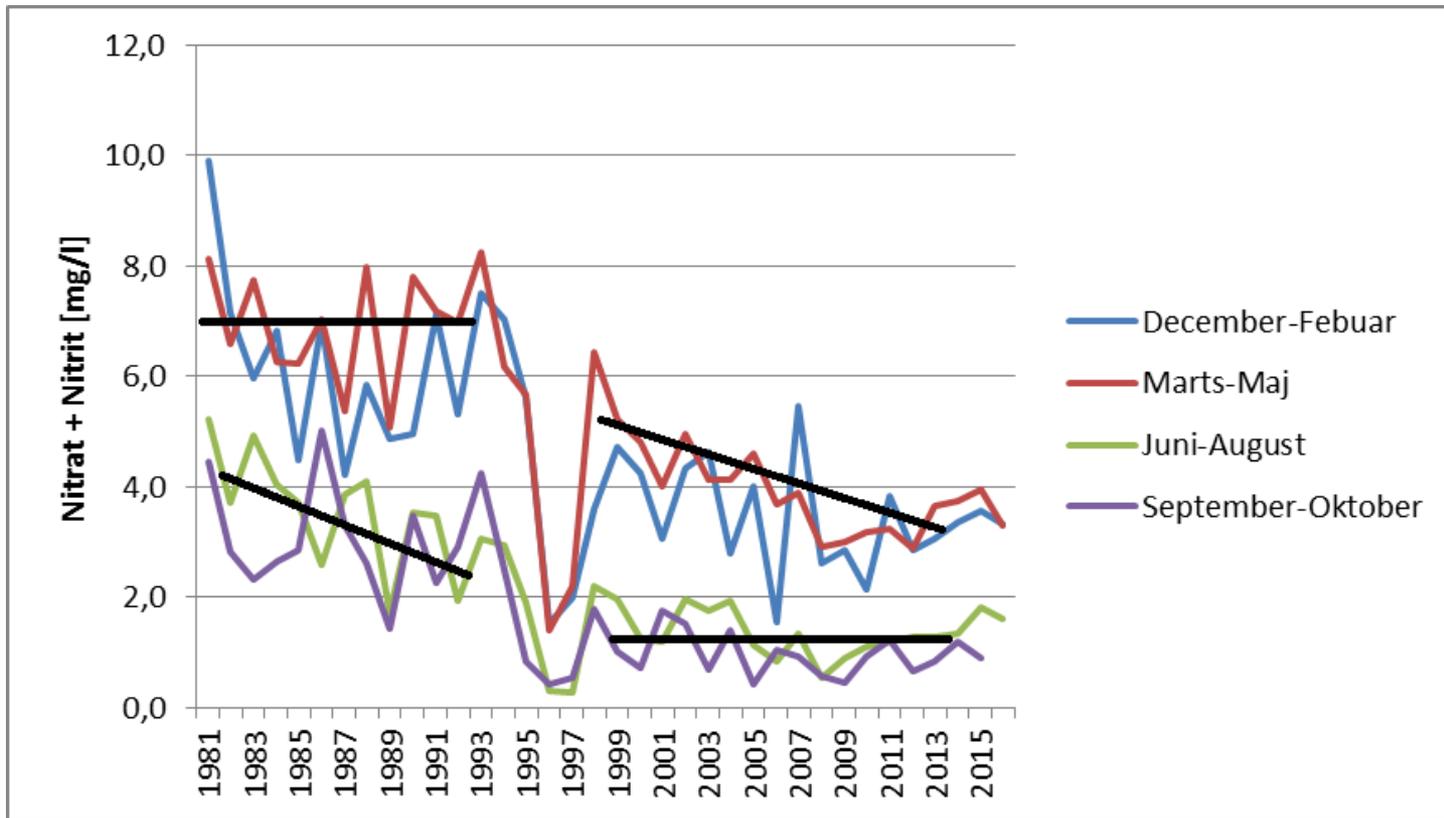
35% reduction in 3 month  
Dec- feb: 218 tons N  
Feb – may: 184 tons N



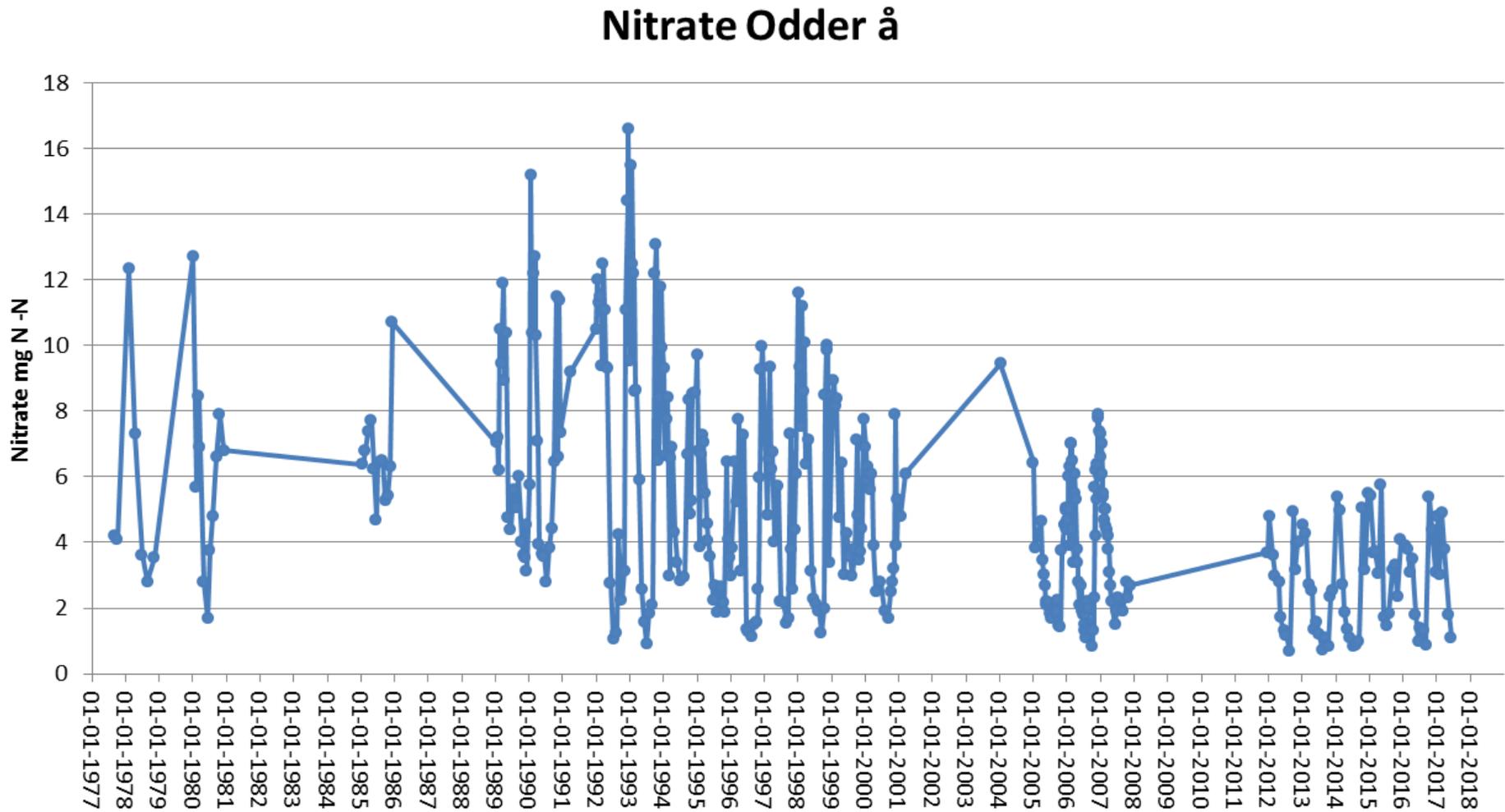
35% reduction 3 month  
May – july: 41 tons N/year

# TARGETED REGULATION - TIMING

Nitrate concentration in Susåen



# TARGETED REGULATION - TIMING



# COMING ACTIVITIES

New concepts for emission based regulation?

- Emission based regulation – GUDP project

Testing:

- “Catchment based approach” with catchment “officer”
- Finding “hotspots” (target measures)
- Involvement of farmers, Water council
- Relevant for 3th water plan cycle
- “local based waterplan”