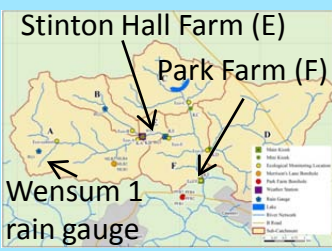


Research objectives

To use bankside kiosks, weather stations & flow gauging for high-resolution monitoring of water quality and analysis of storm events & nutrient fluxes.



Map of Blackwater sub-catchment showing location of Wensum rain gauge 1 and bankside monitoring kiosks E and F

Key messages

- 30-minute kiosk data:
- enables detailed analysis of diurnal variations and individual storm-events (Fig. 1)
 - provides higher confidence in predicting concentration exceedences compared with weekly grab sample data (Fig. 2)
 - allows detailed calculation of stream water and nutrient fluxes (Fig. 3)
- Contact: f.outram@uea.ac.uk

Description of research/methods

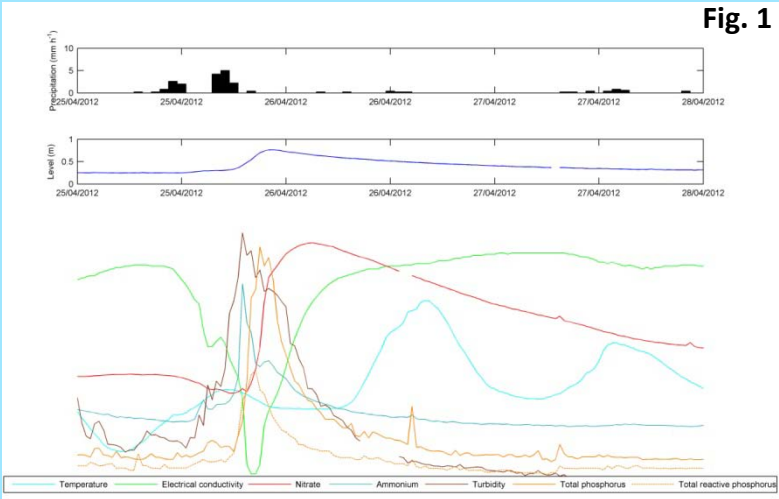


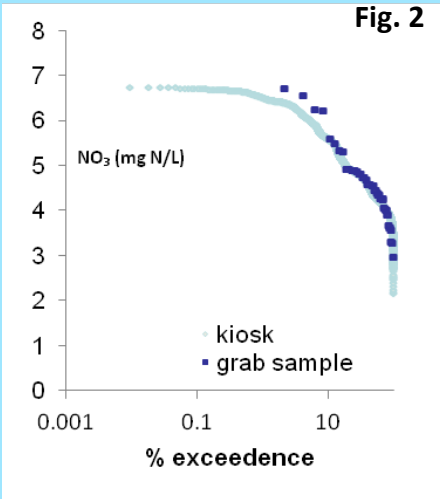
Fig. 1 Wensum 1 rainfall data and Park Farm kiosk 30-minute data

Mini-kiosks and weather station

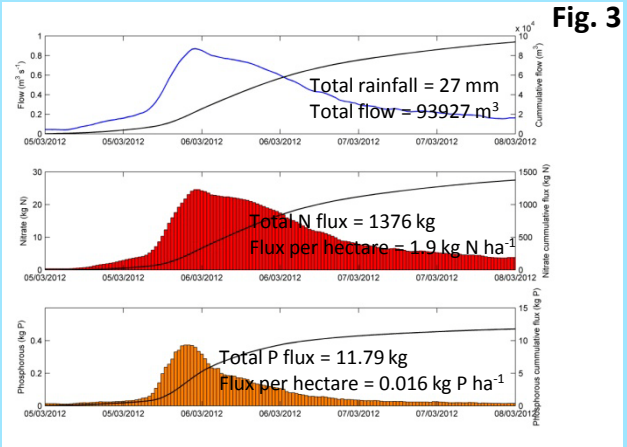


Exchanging knowledge

Sharing expertise



Comparison of weekly grab sample NO₃ data with 30-minute kiosk NO₃ data from 19/03/2011-31/10/2011



Stinton Hall kiosk 30-minute flow, nitrate and total phosphorus fluxes, including flow, nitrogen and phosphorus cumulative fluxes

