Mixing in Rivers

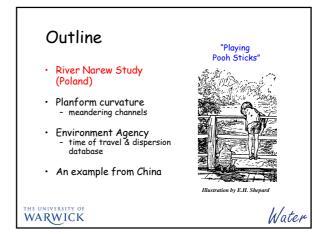
Ian Guymer

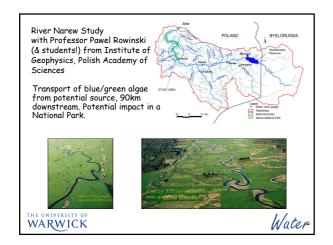
Professor of Civil Engineering School of Engineering, University of Warwick

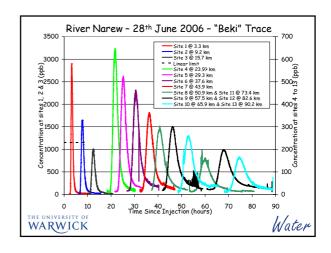
Dye Tracing - Practical Experiences and Applications 20th September 2010 Srinakharinwirot University

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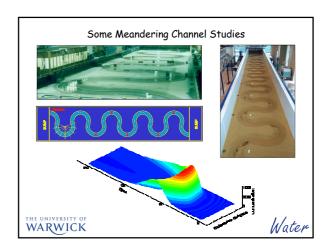


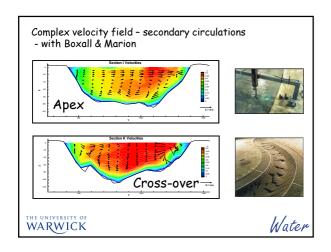


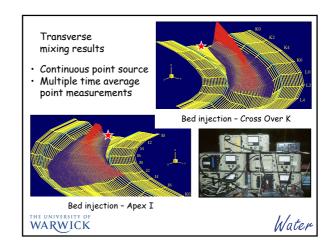


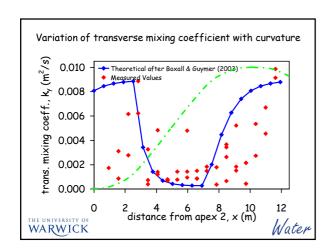


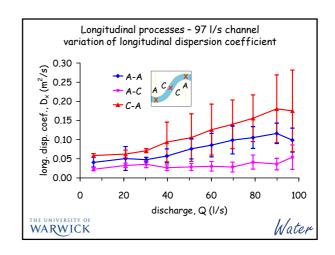
Outline Playing Pooh Sticks" River Narew Study (Poland) Planform curvature - meandering channels Environment Agency - time of travel & dispersion database An example from China THE UNIVERSITY OF WARWICK Water

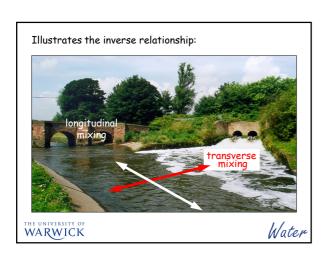


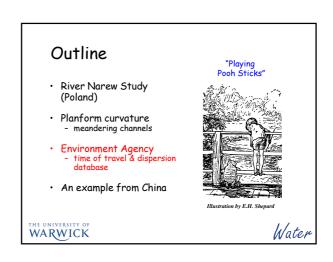


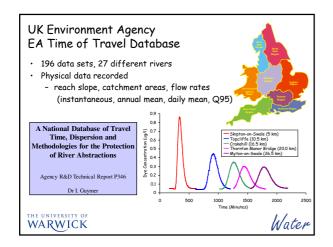


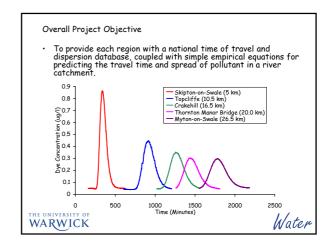


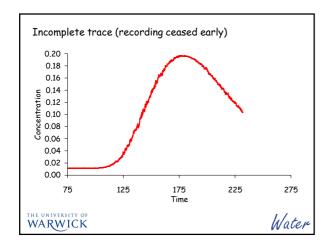


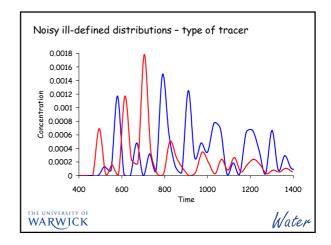


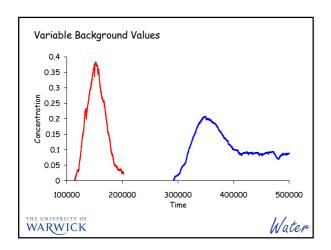


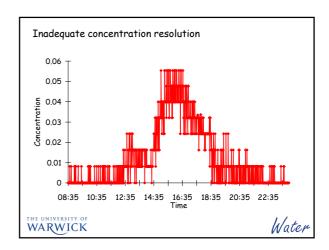


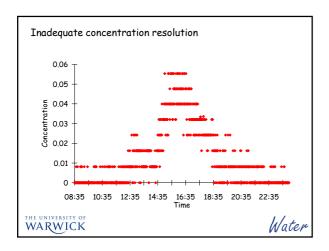


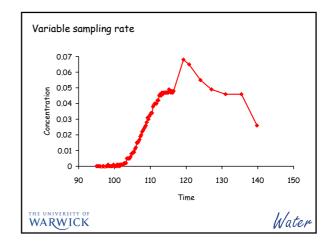


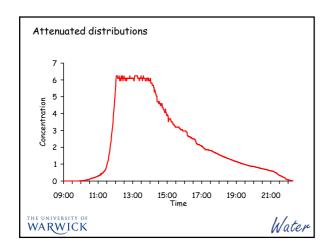












EA Definition of Acceptable Data

- •The minimum concentration resolution should be 1/40th of the measured peak concentration (after background removal). Much greater resolutions are, however, preferred.
- \cdot Tracer arrival and peak should be clearly defined.
- •The tail should recede at least to 5% of the peak and ideally to background.
- •The temporal resolution of the data should provide a minimum of 40 points to define the distribution.

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