

5 Modelling P dynamics in the soil plant system

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Abstract

The importance of phosphorus as both sparingly mobile essential nutrient and pollutant is reflected by the large number of P models at different scales and with different purposes. In this chapter, give an overview on models of P dynamics and generally discuss the approach to developing a mathematical model. Then, we demonstrate this concept by means of four case studies that focus on different plant traits that enhance plant phosphate uptake from soil. The first case study presents a model for phosphate uptake by a mycorrhizal root; the second case study shows a model for time-varying root exudation on the single root scale; the third case study is based on a root system scale model that includes root plasticity, and the fourth case study presents a model for crop response to soil phosphate supply.

5.1 Introduction

The importance of phosphorus (P) as both sparingly mobile essential nutrient and pollutant (e.g. Jones and Oburger 2009) is reflected by the large number of P models at different scales and with different purposes. P dynamics have been studied at a wide range of spatial scales. Examples include the global scale (Harrison et al. 2005), watershed scale (Radcliffe et al. 2009), ecosystem scale (Schlecht and Hiernaux 2005), farming systems scale (Schils et al. 2007), field scale (Schootmans and Groenendijk 2000; Torbert et al. 2008), whole plant scale (Mollier et al. 2008), soil profile scale (Roose and Fowler 2004), and single root scale (Kirk 1999; Roose et al. 2001). In Figure 5.1, we show various P models in a space-time diagram. The position in the space time diagram illustrates the main temporal and spatial scale of application. A full symbol means that this specific model includes smaller-scale submodels. The colour illustrates whether the model is mechanistic or empirical, deterministic or stochastic. Most of the models are mechanistic and deterministic; the degree of empiricity generally increases with spatial scale.

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