

DEVELOPMENTS IN PLANT AND SOIL SCIENCES
VOLUME 6

NITROGEN CYCLING IN ECOSYSTEMS OF LATIN AMERICA AND THE CARIBBEAN

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Nitrogen Cycling In Ecosystems Of Latin America And The Caribbean

**P.J. Randall, E. Delhaize, R.A.
Richards, Rana Munns**



Nitrogen Cycling In Ecosystems Of Latin America And The Caribbean:

Nitrogen Cycling in Ecosystems of Latin America and the Caribbean G. Philip Robertson, R. Herrera, T. Rosswall, 2012-12-06 The large and rapidly expanding body of literature related to nitrogen cycling in both managed and native terrestrial ecosystems reflects the importance accorded to the behaviour of this vital and often limiting nutrient. Research at the organism, ecosystem and landscape levels commonly addresses questions concerning nitrogen acquisition, internal cycling and retention. Goals for this research include increased agricultural productivity and a better understanding of human impact on local, regional and global nitrogen cycles. Nitrogen cycle research in tropical regions has a long and distinguished history. Research on different aspects of nitrogen cycling in ecosystems of the tropics has been carried out in many regions. In relatively few instances has there, however, been a focus on the biogeochemical cycles at the ecosystem level. The meeting resulting in this volume was an attempt to bring together existing information on nitrogen cycling in ecosystems of Latin America and the Caribbean and discuss this in an ecosystem context. Nitrogen Cycling in Ecosystems of Latin America and the Caribbean G. P. Robertson, 1982 **Nitrogen Cycling in Ecosystems of Latin America and the Caribbean**, 1982 Nitrogen Cycling in the Americas: Natural and Anthropogenic Influences and Controls Luiz A. Martinelli, Robert W. Howarth, 2007-01-19 The rate of creation of reactive nitrogen (NR) on the earth has dramatically increased in the last half century, mainly due to the production of N fertilizer through the Haber-Bosch process, fossil fuel combustion and the cultivation of plants that fix N from the atmosphere. The anthropogenic production of NR has been especially high in developed countries of the temperate zone such as the USA and Canada, where severe eutrophication of estuaries and coastal zones, acidification of lakes and streams, loss of biodiversity and reduced forest productivity have become common environmental problems associated with increasing nitrogen loads to ecosystems. However, important drivers responsible for the increase of the production of NR in the temperate zone are increasingly influencing the nitrogen cycle in rapidly developing regions of the world such as the Tropics and Sub Tropics, including most of the countries of Latin America and the Caribbean. Advances in our understanding of the nitrogen cycle and the impact of anthropogenic activities on regional to global scales depend on the expansion of scientific studies to these fast developing regions. This book presents a series of studies from across the Americas whose aim is to highlight key natural processes that control nitrogen cycling as well as discuss the main anthropogenic influences on the nitrogen cycle in both the tropical and temperate regions of the Americas. *Progress in Nitrogen Cycling Studies* O. van Cleemput, G. Hofman, A. Vermoesen, 2012-12-06 This book contains the proceedings of the 8th Nitrogen Workshop which was held at the University of Ghent, Belgium, from 5 to 8 September 1994. Although nitrogen dynamics in different ecosystems have been studied for several decades, new orientations and other emphases have recently emerged. Previously, nitrogen was considered as an essential element, mostly in terms of productivity, but now more emphasis is attached to environmental consequences. More than 100 contributions in this book tackle recent

developments within the fields of nitrogen advice systems plant response to fertilization immobilization and mobilization nitrification denitrification leaching ammonia volatilization and biological nitrogen fixation A large number of papers is devoted to the formation of gaseous nitrogen compounds while mineralization immobilization is another topic of important interest The book also contains the reports of discussion groups on different aspects of the nitrogen cycle **Reactions with Variable-Charge Soils** J. Barrow, 2012-12-06 **Alleviating Soil Fertility Constraints to Increased Crop Production in West Africa** A. Uzo Mokwunye, 2012-12-06 Tropical Africa escaped from the glaciers that covered the temperate parts of the world during the Ice Age The legacy is that most of the parent materials of the soils of tropical Africa are old highly weathered and devoid of bases and phosphate bearing minerals Traditional farming systems which were relatively stable and sustainable relied on long fallow periods after one to two years of cropping to maintain the productive capacity of the soils In recent times and especially in densely populated areas a sizeable class of landless farmers have begun to cultivate marginal lands or to invade the forest reserves thereby exacerbating the problems of land and environmental degradation of soil fertility that will facilitate the production of adequate quantities of the principle Maintaining a level staples has become a major challenge to agricultural scientists in tropical Africa To increase the nutrient supplying power of soils requires the inputs of fertilizers These can be organic or inorganic The efficiency with which these externally supplied inputs can increase agricultural production and reduce soil and environmental deterioration is dependent on the ability of scientists to determine the right types and quantities of the products to apply to each soil crop and cropping system as well as the ability of farmers to acquire requisite farm management skills *Structural and Functional Aspects of Transport in Roots* B.C. Loughman, Otília Gasparíková, J. Kolek, 2012-12-06 Third International Symposium on Structure and Function of Roots NITRA Czechoslovakia August 3-7 1987 Plant Physiological Ecology Robert W. Pearcy, J.R. Ehleringer, Harold Mooney, Philip W. Rundel, 2012-12-06 capable of providing at least a relative measure of stomatal aperture were first used shortly thereafter Darwin and Pertz 1911 The Carnegie Institution of Washington's Desert Research Laboratory in Tucson from 1905 to 1927 was the first effort by plant physiologists and ecologists to conduct team research on the water relations of desert plants Measurements by Stocker in the North African deserts and Indonesia Stocker 1928 1935 and by Lundegårdh 1922 in forest understories were pioneering attempts to understand the environmental controls on photosynthesis in the field While these early physiological ecologists were keen observers and often posed hypotheses still relevant today they were strongly limited by the methods and technologies available to them Their measurements provided only rough approximations of the actual plant responses The available laboratory equipment was either unsuited or much more difficult to operate under field than laboratory conditions Laboratory physiologists distrusted the results and ecologists were largely not persuaded of its relevance Consequently it was not until the 1950s and 1960s that physiological ecology began its current resurgence While the reasons for this are complicated the development and application of more sophisticated instruments

such as the infrared gas analyzer played a major role In addition the development of micrometeorology led to new methods of characterizing the plant environments

The Significance and Regulation of Soil Biodiversity Harold P. Collins,G. Philip Robertson,Michael J. Klug,2012-12-06 The sustainability of both natural and managed ecosystems is strongly influenced by soil biological processes A major question in soil biology and ecosystem ecology is the extent to which these processes are affected by the function and structure of the soil s biotic community The Significance and Regulation of Soil Biodiversity presents the discussions of a group of soil biologists and ecosystem ecologists in which they synthesize available information present innovative methodologies and develop cross taxa and cross habitat collaborations to advance our understanding of soil biodiversity The volume addresses the extent and regulation of soil biodiversity and describes initial approaches to the linking of soil biodiversity and ecosystem function Audience Researchers and students in a wide range of environmental scientific disciplines

Effects of Crop Rotation on Potato Production in the Temperate Zones J. Vos,C.D. van Loon,G.J. Bollen,2012-12-06 This volume contains the Proceedings of the International Conference on Effects of Crop Rotation on Potato Production in the Temperate Zones This conference was held in the International Agricultural Centre at Wageningen The Netherlands August 14 19 1988 under the auspices of the European Association for Potato Research EAPR the Potato Association of America PAA and the Dutch National Council for Agricultural Research NRLO The length of rotations affect the performance of potato crops and yields are often reduced if rotations are too short The kinds of crops within a rotation will also affect potato performance especially those grown in the previous season It was a major aim of the conference to bring together specialists of various disciplines to examine these determinants of potato yield The Organizing Committee is glad that all relevant aspects of the theme are highlighted in these proceedings The contents of the contributions are primarily left to the responsibility of the authors J Vos C D van Loon G J Bollen ORGANIZATION OF THE CONFERENCE The European Association for Potato Research EAPR and the Potato Association of America PAA nominated representatives in the Conference Committee PAA was represented by prof dr E E Ewing Ithaca USA and by dr R E Thornton Pullman USA EAPR was represented by prof dr J C Holmes Edinburgh UK ir C D van Loon Lelystad NL and dr ir J Vos chairman Wageningen NL

Plant Nutrition — from Genetic Engineering to Field Practice J. Barrow,2012-12-06 Plant Nutrition From Genetic Engineering to Field Practice the 12th International Colloquium on Plant Nutrition is the latest in a series which began in 1954 Early meetings were mainly concerned with the practical problems of soil fertility with soil assessment fertilizer requirements and methods of analysis As the colloquia have progressed the emphasis has slowly changed The practical problems are still important but there is increasing emphasis on plant physiology plant biochemistry membrane biochemistry and even on the chemistry of genes which control the proteins which transfer nutrient ions to the inside of cells The meetings therefore provide a valuable opportunity for each half of the science of plant nutrition to interact with and learn from the other half This volume begins with five papers which review current knowledge in important fields

the rhizosphere molecular biology electron microscopy location and function of elements in vivo and modelling nutrient responses in the field These themes are continued in groups of shorter papers which follow In addition there are sections on nutrient dynamics and partitioning diagnostic techniques plant survival strategies mycorrhizas and on nutrients such as P N S K Ca Mg and micronutrients A large section is devoted specifically to boron reflecting the considerable current interest in this element In total there are 177 refereed papers providing both a broad overview and a detailed picture of the latest developments in pure and applied plant nutrition

New Root Formation in Plants and Cuttings M.B. Jackson, 2012-12-06

The formation of roots is in some respects one of the least fundamentally understood of all plant functions Propagation by cuttings is the aspect that will occur first to most gardeners and horticulturists and it is certainly the most useful application But any observant traveller in the tropics can notice that some trees have the habit of forming roots in the air Climbers like *Cissus* bear long fine strings of roots hanging down *Pandanus* trees tend to have stout aerial roots issuing from the bases of the long branches while the tangle of roots around the trunk of many of the *Ficus* species is characteristic In *Ficus bengalensis* in particular stout cylindrical roots firmly embedded in the ground from a height of 3 to 5 meters give support to the long horizontal branches enabling them to spread still further In the big old specimen at Adyar near Madras the spread of these branches all around the tree each with a strong root growing out every few meters makes a shaded area under which meetings of almost 5000 people are sometimes held The history of how the formation of roots on stem cuttings was found to be under hormonal control is worth repeating here

Genetic Aspects of Plant Mineral Nutrition P.J. Randall, E. Delhaize, R.A. Richards, Rana Munns, 2012-12-06

The adaptation of desirable agricultural plants to infertile and problem soils is an increasingly important strategy for improving food supplies in many parts of the world The plant breeding approach complements and in some cases may replace agronomic practices such as the use of fertilizers and soil amendments to provide solutions which are economically and environmentally sustainable The Symposium at which the papers in this volume were presented drew together workers in plant breeding plant nutrition physiology biochemistry and molecular biology to discuss research on gene systems which affect the mineral nutrition of plants Papers describe successes in plant breeding for problem soils as well as advances in understanding of mechanisms at the whole plant and cellular levels Papers in the molecular area point the way to the contribution which the new biology will make to this field in the future The reviews and research papers are grouped under five topics Better plants for acid soils Salinity tolerance Efficiency of uptake and use of macronutrients Efficiency for iron and micronutrients Tolerance of heavy metals and boron

Animal Manure on Grassland and Fodder Crops. Fertilizer or Waste? H.G. van der Meer, R.J. Unwin, T.A. van Dijk, G.C. Ennik, 2012-12-06

On the occasion of its twenty fifth anniversary in 1985 the Netherlands Society for Grassland and Fodder Crops NVWV agreed to organize an International Symposium on a topic related to intensive grass and fodder production systems The theme selected was Animal manure on grassland and fodder crops Fertilizer or waste This Symposium was organized under the auspices of the European

Grassland Federation and held at the International Agricultural Centre in Wageningen from 31 August to 3 September 1987. The problems connected with the disposal of animal waste have received much attention in recent years especially in regions with intensive animal husbandry. Whereas the production of animal manure per hectare of agricultural land increased strongly, the need for it decreased because of the introduction of cheap inorganic fertilizers which are easier to handle and have a more reliable effect on crop growth. As a consequence many farmers dispose of animal manure as cheaply as possible whilst avoiding damage to grassland and crops and paying little attention to effective use of the plant nutrients contained in the manure. Present practices of manure handling and application often lead to environmental problems. The rise in awareness of these problems renewed interest in possibilities to improve the utilization of nutrients from animal manure in crop production. Research on this topic has been stimulated in many countries during the last decade and the aim of this Symposium was to review and assess present day knowledge.

Plant Nutrition for Sustainable Food Production and Environment Tadao Ando, Kounosuke Fujita, Tadahiko Mae, Hideaki Matsumoto, Satoshi Mori, Jiro Sekiya, 2012-12-06. In the history of the International Plant Nutrition Colloquium from its first meeting in 1954 this meeting the 13th Colloquium is the first to be held in Asia and will be the last in the 20th century. The 20th century has seen huge changes in the number and activities of mankind. Our population has increased from around 1.7 billion to more than 5.8 billion and technological innovations have completely altered our way of living. As a consequence of such rapid change we are facing many problems including changes in our environment of a global scale. But while food shortage has been a serious concern to mankind throughout our history serious food shortages in the 20th century have been confined to limited times and areas. As Lester Brown discusses in this volume farmers have increased food production heroically on demand. We the plant nutritionists should be proud of our support to the world's farmers which has helped them make their achievement possible. During the 20th century the science of plant nutrition also has achieved great progress as described by Jack Loneragan it became established as a discipline firmly based in science defined the chemical elements supporting plant growth and has contributed to improvements in plant production and environmental quality as readers will find in many contributions in this volume.

Plant Roots - From Cells to Systems H.M. Anderson, Peter W. Barlow, D.T. Clarkson, M.B. Jackson, Peter R. Shewry, 2012-12-06. Proceedings of the 14th Long Ashton International Symposium Plant Roots From Cells to Systems held in Bristol UK 13-15 September 1995.

Iron Nutrition and Interactions in Plants Y. Chen, Y. Hadar, 2012-12-06. Many agricultural crops worldwide especially in semi arid climates suffer from iron deficiencies. Among plants sensitive to iron deficiency are apples avocado bananas barley beans citrus cotton grapes peanuts pecans potatoes sorghum soybeans and numerous ornamental plants. Deficiencies are usually recognized by chlorotic in new leaves and are typically found among sensitive crops grown in calcareous or yellowed interveinal areas soils which cover over 30% of the earth's land surface. Iron deficiency may lead in extreme cases to complete crop failure. In intensive agriculture on calcareous soils iron often becomes

a major limiting nutrient for optimal crop production thus correction of iron deficiency is required Various chemicals and practices are available They are however costly and do not always result in a complete remedy of the deficiency Crucial questions relative to the cost benefit equation such as the recovery rate of plants and the long term fertilizing effect have not yet been resolved The complexity of iron nutrition problems requires an understanding of the chemistry of iron oxides in soils of the chemistry of both natural and synthetic chelates of rhizosphere microbiology and biochemistry and of the physiological involvement of the plant in iron uptake and transport

South Jersey Farming Cheryl L. Baisden, 2006 By 1876 the year Abraham Browning christened New Jersey the Garden State South Jersey was already renowned as a leader in the farming industry supplying the region with everything from apples to zucchini It was here that Dr T B Welch produced the grape juice that remains a favorite today Elizabeth White first cultivated the blueberry Seabrook Farms became the birthplace of frozen vegetables Campbell Soup and others canned vegetable fueled foods and a colonel transformed the tomato's reputation from deadly to delectable South Jersey Farming pays tribute to this rich agricultural past

Structure and Function of Roots F. Baluska, Milada Ciamporová, Otilia Gasparíková, Peter W. Barlow, 2013-11-11 In 1971 the late Dr J Kolek of the Institute of Botany Bratislava organized the first International Symposium devoted exclusively to plant roots At that time perhaps only a few of the participants gathered together in Tatranska Lomnica sensed that a new era of root meetings was beginning Nevertheless it is now clear that Dr Kolek's action undertaken with his characteristic enormous enthusiasm was rather pioneering for it started a series of similar meetings Moreover what was rather exceptional at the time was the fact that the meeting was devoted to the functioning of just a single organ the root One possible reason for the unexpected success of the original perhaps naive idea of a Root Symposium might lie with the fact that plant roots have always been extremely popular as experimental material for cytologists biochemists and physiologists wishing to probe processes as diverse as cell division and solute transport Of course the connection of roots with the rest of the plant is not forgotten either This wide variety of disciplines is now coupled with the development of increasingly sophisticated experimental techniques to study some of these old problems These factors undoubtedly contribute to the necessity of continuing the tradition of the root symposia The common theme of root function gives in addition a certain unity to all these diverse activities

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