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Nota di contenuto	Foreword 1 (Wolfgang Cramer and Steve Carpenter) -- Foreword 2 (Donald Worster) -- 1. Introduction. Long-Term Socio-Ecological Research: Scope and History -- PART I: LTSER Concepts, Methods and Linkages -- 2. Sociometabolic Transitions and the Human Appropriation of Net Primary Production: What Promise Do They Hold For LTSER?- 3. Integrated Socio-Ecological Modeling: Experiences From European LTSER Platforms -- 4. Modeling Transport as a Key Constraint to Urbanization in Pre-Industrial Societies -- 5. The Environmental History of the Danube River Basin as an Issue of Long-Term Socio-Ecological Research -- 6. The Relevance of 'Critical Scales' For LTSER -- 7. Biohistory -- 8. Geographic Approaches to LTSER: Principal Themes And Concepts With a Case Study of Andes-Amazon Watersheds -- 9. The Contribution of Anthropology To Concepts Guiding LTSER Research -- PART II: LTSER Applications Across Ecosystems, Time and Space -- 10. Viewing the Urban Socio-Ecological System Through a Sustainability Lens: Lessons and Prospects From the Central Arizona-Phoenix LTER Program -- 11. A City and Its Hinterland: Vienna's Energy Metabolism 1800-2006 -- 12. Sustaining Agricultural Systems in the Old and New Worlds: A Long-Term Socio-Ecological Comparison -- 13. How Material and Energy Flows Change Human Practices and Environments: The Transformation of Agriculture in the Eisenwurzen Region, 1860-2000

-- 14. The Intimacy of Human-Nature Interactions on Islands -- 15. Global Socio-Metabolic Transitions -- PART III: LTSER Formations and the Transdisciplinary Challenge -- 16. Building an Urban LTSER: The Case of the Baltimore Ecosystem Study and the D.C. / B.C. ULTRA-Ex Project -- 17. Development of LTSER Platforms in LTER-Europe: Challenges and Experiences in Implementing Place-Based Long-Term Socio-Ecological Research in Selected Regions -- 18. Developing Socio-Ecological Research in Finland: Challenges and Progress Towards a Thriving LTSER Network -- 19. The Eisenwurzen LTSER Platform (Austria) - Implementation and Services -- 20. Fostering Research Into Coupled Long-Term Dynamics of Climate, Land Use, Ecosystems and Ecosystem Services in the Central French Alps -- 21. Long-Term Socio-Ecological Research in Mountain Regions: Perspectives From the Tyrolean Alps -- 22. Experiences From the Ötztal Valley in the Tyrolean High Alps: The Transdisciplinary Challenge -- 23. Conclusions -- Index.

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#### Sommario/riassunto

The authors in this volume make a case for LTSER's potential in providing insights, knowledge and experience necessary for a sustainability transition. This expertly edited selection of contributions from Europe and North America reviews the development of LTSER since its inception and assesses its current state, which has evolved to recognize the value of formulating solutions to the host of ecological threats we face. Through many case studies, this book gives the reader a greater sense of where we are and what still needs to be done to engage in and make meaning from long-term, place-based and cross-disciplinary engagements with socio-ecological systems.

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