

1. Record Nr.	UNINA9910791222003321
Autore	Sagarin Rafe
Titolo	Observation and ecology [[electronic resource]] : broadening the scope of science to understand a complex world // Rafe Sagarin and Anibal Pauchard
Pubbl/distr/stampa	Washington, DC, : Island Press, c2012
ISBN	1-59726-826-7 1-61091-230-6
Edizione	[1st ed. 2012.]
Descrizione fisica	1 online resource (230 p.)
Altri autori (Persone)	PauchardAnibal
Disciplina	577
Soggetti	Ecology - Methodology Observation (Scientific method) Ecology - Research Ecology - Study and teaching Nature observation Biocomplexity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Foreword -- Acknowledgments -- Introduction -- Part I. The Role of Observation in Ecological Science. 1. An Observational Approach to Ecology -- 2. Observational Approaches in Historical Context -- Part II. Using Observations in Ecology. 3. Using All the Senses in Ecology -- 4. Using Technology to Expand Our Observational Senses -- 5. Local, Traditional, and Accidental Ecological Observers and Observations -- Part III. The Challenges Posed by an Observational Approach. 6. Dealing with Too Many Observations, and Too Few -- 7. Is Observation-Based Ecology Scientific? -- Part IV. Beyond Academia: The Power of Observational Approaches. 8. Ecology's Renewed Importance in Policy -- 9. Opening Nature's Door to a New Generation of Citizens and Ecologists -- Conclusions -- References -- About the Authors -- About the Contributors -- Index.
Sommario/riassunto	The need to understand and address large-scale environmental problems that are difficult to study in controlled environments—issues ranging from climate change to overfishing to invasive species—is

driving the field of ecology in new and important directions. *Observation and Ecology* documents that transformation, exploring how scientists and researchers are expanding their methodological toolbox to incorporate an array of new and reexamined observational approaches—from traditional ecological knowledge to animal-borne sensors to genomic and remote-sensing technologies—to track, study, and understand current environmental problems and their implications. The authors paint a clear picture of what observational approaches to ecology are and where they fit in the context of ecological science. They consider the full range of observational abilities we have available to us and explore the challenges and practical difficulties of using a primarily observational approach to achieve scientific understanding. They also show how observations can be a bridge from ecological science to education, environmental policy, and resource management. Observations in *Ecology* can play a key role in understanding our changing planet and the consequences of human activities on ecological processes. This book will serve as an important resource for future scientists and conservation leaders who are seeking a more holistic and applicable approach to ecological science.
