

Ecology Of Threatened Semi-arid Wetlands

[DOWNLOAD HERE](#)

1;Preface;6 2;Acknowledgments;8 3;Contents;10 4;Contributors;16 5;Part I:Introductory Chapter;18
5.1;Chapter 1: The Wetland, Its Catchment Settings and Socioeconomic Relevance: An Overview;19
5.1.1;1.1 Introduction;19 5.1.2;1.2 The Wetland: Las Tablas de Daimiel National Park;22 5.1.3;1.3 The
Upper Guadiana Basin and the UNESCO s La Mancha Hmeda Biosphere Reserve;24 5.1.4;1.4
Groundwater Overexploitation and the Wetland Complex;28 5.1.5;1.5 Socioeconomic Aspects in the
Upper Guadiana Basin;30 5.1.6;1.6 A Chronological Summary of TDNP Impacts and Its Degradation;32
5.1.7;References;34 6;Part II:Abiotic Environment andHistorical Reconstructions;37 6.1;Chapter 2:
Paleoenviromental Reconstruction of Las Tablas de Daimiel and Its Evolution During the Quaternary
Period;38 6.1.1;2.1 Introduction;38 6.1.2;2.2 Material and Methods;40 6.1.3;2.3 Overview of Vegetation
Composition in La Mancha Region During Quaternary Period: Palaeo-Sequences Description;42
6.1.3.1;2.3.1 Landscape Evolution from 325,000 to 21,000 Years BP: LT, TD, TASG-1 and FUENT-1
Profiles;43 6.1.3.2;2.3.2 Landscape Evolution from 11,000 to 4,000 Years BP: MO and CC-17
Sequences;44 6.1.3.3;2.3.3 Landscape Evolution from 4,000 Years BP to the Present: CC-17 and Gigela
4.2 Paleo-records;46 6.1.4;2.4 Summary of Climatic and Wetland Environmental Evolution During the
Quaternary Period;50 6.1.4.1;2.4.1 Middle Pleistocene;51 6.1.4.2;2.4.2 Upper Pleistocene;52
6.1.4.3;2.4.3 Holocene;52 6.1.5;References;53 6.2;Chapter 3: Climate and Hydrologic Trends: Climate
Change Versus Hydrologic Overexploitation as Determinants of the FluctuatingWetland Hydrology;59
6.2.1;3.1 Introduction;60 6.2.2;3.2 Material and Methods;61 6.2.3;3.3 Long-Term Climate Trends;61
6.2.4;3.4 An Historical Analysis of Wetland Hydroperiod and Inundation Patterns: The Importance of
Groundwater;64 6.2.5;3.5 Long-Term Changes in the Wetland Water Budget: Hydrologic Degradation;67
6.2.6;3.6 Causes of Wetland Hydrologic Degradation: Climate Change Versus Hydrologic
Overexploitation;75 6.2.7;3.7 Evapotranspiration Controls of Wetland Hydrology: A Conceptual Model;80
6.2.8;3.8 A Wetland Hydrological Model for Hydroperiod Restoration;84 6.2.9;3.9 Future Scenarios of
TDNP Hydrology;92 6.2.10;References;93 6.3;Chapter 4: The Effects of Anthropogenic Stressors on
Wetland Loss and Habitat Quality Deterioration in the Upper Guadiana River Basin: A Long-Term

Assessment (1970 2000);98 6.3.1;4.1 Introduction;99 6.3.2;4.2 Material and Methods;100 6.3.3;4.3 Wetland Cover and Extent of Hydrodynamic Types in the Early 1970s;104 6.3.4;4.4 Land Use Land Cover Changes and Socioeconomic Indicators During 1978 2000;105 6.3.5;4.5 Wetland Losses from 1970 to 2000;108 6.3.6;4.6 Wetland Habitat Quality Evolution During the Period 1978 2000;111 6.3.7;4.7 Patterns on Wetland Loss and Habitat Quality Deterioration: the Influence of the Main Anthropogenic Stressors at Local and Regional Scales;112 6.3.8;References;118 6.4;Chapter 5: A Story of the Wetland Water Quality Deterioration: Salinization, Pollution, Eutrophication and Siltation;121 6.4.1;5.1 Introduction;121 6.4.2;5.2 Materials and Methods;123 6.4.3;5.3 Salinization and Major Ionic Composition;123 6.4.4;5.4 Water Pollution;125 6.4.5;5.5 Nutrient Dynamics and Eutrophication;128 6.4.6;5.6 Spatial Heterogeneity of Nutrient Controls;136 6.4.7;5.7 Wetland Sedimentation and Siltation;140 6.4.8;References;143 7;Part III:Ecological Communities;146 7.1;Chapter 6: Plankton Ecology and Diversity;147 7.1.1;6.1 Introduction;148 7.1.2;6.2 Materials and Methods;149 7.1.2.1;6.2.1 Field Sampling and Counting Techniques;149 7.1.2.2;6.2.2 Indexes and Statistical Methods;150 7.1.3;6.3 Diversity of Heterotrophic and Autotrophic Picoplankton;151 7.1.4;6.4 Bacteria and Autotrophic Picoplankton Dynamics;151 7.1.5;6.5 Species Composition and Diversity of Phytoplankton;154 7.1.6;6.6 Phytoplankton Abundance Dynamics;161 7.1.7;6.7 Species Comp EAN/ISBN : 9789048191819
Publisher(s): Springer, Berlin, Springer Science & Business Media Discussed keywords: Feuchtgebiet
Format: ePub/PDF Author(s): Snchez-Carrillo, Salvador - Angeler, David G.

[DOWNLOAD HERE](#)

Similar manuals: