

BIODIVERSITY CONSERVATION HANDBOOK

BIODIVERSITY CONSERVATION HANDBOOK Microsoft Office Professional Essentials HANDBOOK OF CLIMATE CHANGE AND BIODIVERSITY The Conservation Handbook Research Handbook on Biodiversity and Law The Routledge Handbook of Philosophy of Biodiversity Handbook of Market Creation for Biodiversity Issues in Implementation Biodiversity Routledge Handbook of Urban Biodiversity Habitat Management for Conservation Routledge Handbook of Biodiversity and the Law A Practitioner's Guide to Freshwater Biodiversity Conservation Conservation and Sustainable Use Handbook of Incentive Measures for Biodiversity Conservation and Biodiversity Banking A Practitioner's Guide to Freshwater Biodiversity Conservation Handbook for Biodiversity Conservation in Uganda Routledge Handbook of Agricultural Biodiversity Handbook on the Economics of Ecosystem Services and Biodiversity Drafting a Conservation Blueprint Robert B. McKinstry Que Education and Training Staff Walter Leal Filho William J. Sutherland Michael Bowman Justin Garson OECD Anne Becher Charles H. Nilon Malcolm Ausden Charles R. McManis Nicole Silk E. J. Milner-Gulland Organisation for Economic Co-operation and Development. Working Group on Economic Aspects of Biodiversity Ricardo Bayon Nicole Silk Danny Hunter Paulo A L D Nunes Craig Groves

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THIS BOOK COMPREHENSIVELY DESCRIBES ESSENTIAL RESEARCH AND PROJECTS ON CLIMATE CHANGE AND BIODIVERSITY MOREOVER IT INCLUDES CONTRIBUTIONS ON HOW TO PROMOTE THE CLIMATE AGENDA AND BIODIVERSITY CONSERVATION AT THE LOCAL LEVEL CLIMATE CHANGE AS A WHOLE AND GLOBAL WARMING IN PARTICULAR ARE KNOWN TO HAVE A NEGATIVE IMPACT ON BIODIVERSITY IN THREE MAIN WAYS FIRSTLY INCREASES IN TEMPERATURES ARE DETRIMENTAL TO A NUMBER OF ORGANISMS ESPECIALLY THOSE IN SENSITIVE HABITATS SUCH AS CORAL REEFS AND RAINFORESTS SECONDLY THE PRESSURES POSED BY A CHANGING CLIMATE MAY LEAD TO SETS OF RESPONSES IN

AREAS AS VARIED AS PHENOLOGY RANGE AND PHYSIOLOGY OF LIVING ORGANISMS OFTEN LEADING TO CHANGES IN THEIR LIFECYCLES ESPECIALLY BUT NOT ONLY IN REPRODUCTION LOSSES IN PRODUCTIVITY OR EVEN DEATH IN SOME CASES THE VERY SURVIVAL OF VERY SENSITIVE SPECIES MAY BE ENDANGERED THIRDLY THE IMPACTS OF CLIMATE CHANGE ON BIODIVERSITY WILL BE FELT IN THE SHORT TERM WITH REGARD TO SOME SPECIES AND ECOSYSTEMS BUT ALSO IN THE MEDIUM AND LONG TERM IN MANY BIOMES INDEED IF LEFT UNCHECKED SOME OF THESE IMPACTS MAY BE IRREVERSIBLE MANY INDIVIDUAL GOVERNMENTS FINANCIAL INSTITUTES AND INTERNATIONAL DONORS ARE CURRENTLY SPENDING BILLIONS OF DOLLARS ON PROJECTS ADDRESSING CLIMATE CHANGE AND BIODIVERSITY BUT WITH LITTLE COORDINATION QUITE OFTEN THE EMPHASIS IS ON ADAPTATION EFFORTS WITH LITTLE EMPHASIS ON THE CONNECTIONS BETWEEN PHYSIO ECOLOGICAL CHANGES AND THE LIFECYCLES AND METABOLISMS OF FAUNA AND FLORA OR THE INFLUENCE OF POOR GOVERNANCE ON BIODIVERSITY AS SUCH THERE IS A RECOGNIZED NEED TO NOT ONLY BETTER UNDERSTAND THE IMPACTS OF CLIMATE CHANGE ON BIODIVERSITY BUT TO ALSO IDENTIFY TEST AND IMPLEMENT MEASURES AIMED AT MANAGING THE MANY RISKS THAT CLIMATE CHANGE POSES TO FAUNA FLORA AND MICRO ORGANISMS IN PARTICULAR THE QUESTION OF HOW TO RESTORE AND PROTECT ECOSYSTEMS FROM THE IMPACT OF CLIMATE CHANGE ALSO HAS TO BE URGENTLY ADDRESSED THIS BOOK WAS WRITTEN TO ADDRESS THIS NEED THE RESPECTIVE PAPERS EXPLORE MATTERS RELATED TO THE USE OF AN ECOSYSTEM BASED APPROACH TO INCREASE LOCAL ADAPTATION CAPACITY CONSIDER THE SIGNIFICANCE OF A PROTECTED AREAS NETWORK IN PRESERVING BIODIVERSITY IN A CHANGING NORTHERN EUROPEAN CLIMATE AND ASSESS THE IMPACTS OF CLIMATE CHANGE ON SPECIFIC SPECIES INCLUDING WILD TERRESTRIAL ANIMALS THE BOOK ALSO PRESENTS A VARIETY OF CASE STUDIES SUCH AS THE YELLOWSTONE TO YUKON CONSERVATION INITIATIVE THE EFFECTS OF CLIMATE CHANGE ON THE BIODIVERSITY OF ALEPOO PINE FOREST IN SENALBA ALGERIA CLIMATE CHANGE AND BIODIVERSITY RESPONSE IN THE NIGER DELTA REGION AND THE EFFECTS OF FOREST FIRES ON THE BIODIVERSITY AND THE SOIL CHARACTERISTICS OF TROPICAL PEATLANDS IN INDONESIA THIS IS A TRULY INTERDISCIPLINARY PUBLICATION AND WILL BENEFIT ALL SCHOLARS SOCIAL MOVEMENTS PRACTITIONERS AND MEMBERS OF GOVERNMENTAL AGENCIES ENGAGED IN RESEARCH AND OR EXECUTING PROJECTS ON CLIMATE CHANGE AND BIODIVERSITY AROUND THE WORLD

TEXTBOOKS ON THE PRINCIPLES OF CONSERVATION BIOLOGY ABOUND YET HOW DOES ONE PUT THIS THEORETICAL KNOWLEDGE INTO PRACTICE THE AIM OF THE CONSERVATION HANDBOOK IS TO PROVIDE CLEAR GUIDANCE ON THE IMPLEMENTATION OF CONSERVATION TECHNIQUES THE WIDE RANGE OF METHODS DESCRIBED INCLUDE THOSE FOR ECOLOGICAL RESEARCH MONITORING PLANNING EDUCATION HABITAT MANAGEMENT AND COMBINING CONSERVATION WITH DEVELOPMENT NINETEEN CASE STUDIES ILLUSTRATE HOW THE METHODS HAVE BEEN APPLIED THE BOOK WILL BE OF INTEREST TO CONSERVATION BIOLOGY STUDENTS AND PRACTICING CONSERVATIONISTS WORLDWIDE FOR EACH COPY OF THE BOOK SOLD ANOTHER COPY WILL BE SENT FREE TO A PRACTICING CONSERVATIONIST OUTSIDE WESTERN EUROPE NORTH AMERICA AUSTRALIA NEW ZEALAND AND JAPAN FOREWORD BY E O WILSON CONCISE PRACTICAL GUIDE PACKED FULL OF IDEAS METHODS AND ADVICE PROVIDES SOLUTIONS FOR THE MAIN CONSERVATION PROBLEMS MOST COMMONLY ENCOUNTERED 18 GLOBAL CASE STUDIES ILLUSTRATE THE APPLICATION OF TECHNIQUES THE CONSERVATION HANDBOOK DONATIONS PROJECT THIS BOOK IS BEING SENT FREE TO THOSE PRACTISING CONSERVATIONISTS OUTSIDE WESTERN EUROPE NORTH AMERICA AUSTRALIA NEW ZEALAND AND JAPAN WHO ARE OTHERWISE UNLIKELY TO OBTAIN A COPY THESE COPIES ARE PROVIDED AT COST PRICE BY BLACKWELL SCIENCE THE PUBLISHER AND PAID FOR WITH THE AUTHOR'S ROYALTIES EACH BOOK SOLD MEANS ANOTHER ONE WILL BE DONATED

THE CRUCIAL IMPORTANCE OF BIODIVERSITY LAW TO FUTURE HUMAN WELFARE IS ONLY NOW BEING FULLY APPRECIATED THIS WIDE RANGING HANDBOOK PRESENTS A RANGE OF PERSPECTIVES FROM LEADING INTERNATIONAL EXPERTS REFLECTING UP TO DATE RESEARCH THINKING ON THE VITAL SUBJECT OF BIODIVERSITY AND ITS INTERACTION WITH LAW THROUGH A RIGOROUS EXAMINATION OF THE PRINCIPLES PROCEDURES AND PRACTICES THAT CHARACTERISE THIS AREA OF LAW THIS TIMELY VOLUME EFFECTIVELY HIGHLIGHTS ITS OBJECTIVES IMPLEMENTATION ACHIEVEMENTS AND PROSPECTS MORE SPECIFICALLY THE WORK ADDRESSES THE REGULATORY CHALLENGES POSED BY THE PRINCIPAL CONTEMPORARY THREATS TO BIOLOGICAL DIVERSITY THE APPLICABLE GENERAL PRINCIPLES OF INTERNATIONAL ENVIRONMENTAL LAW AND THE VISIONS VALUES AND VOICES THAT ARE SHAPING THE DEVELOPMENT OF THE LAW PRESENTING THEMATIC RATHER THAN REGIME BASED COVERAGE THE EDITORS DEMONSTRATE THE STATE OF

THE ART OF CURRENT RESEARCH AND IDENTIFY FUTURE RESEARCH NEEDS AND DIRECTIONS THIS COMPREHENSIVE AND AUTHORITATIVE HANDBOOK WILL BE AN INDISPENSABLE RESOURCE FOR LEGAL SCHOLARS STUDENTS AND PRACTITIONERS ALIKE

BIOLOGICAL DIVERSITY OR BIODIVERSITY IS THE DEGREE OF VARIATION OF LIFE WITHIN AN ECOSYSTEM IT IS A RELATIVELY NEW TOPIC OF STUDY BUT HAS GROWN ENORMOUSLY IN RECENT YEARS BECAUSE OF ITS INTERDISCIPLINARY NATURE THE VERY CONCEPT OF BIODIVERSITY IS THE SUBJECT OF DEBATE AMONGST PHILOSOPHERS BIOLOGISTS GEOGRAPHERS AND ENVIRONMENTALISTS THE ROUTLEDGE HANDBOOK OF PHILOSOPHY OF BIODIVERSITY IS AN OUTSTANDING REFERENCE SOURCE TO THE KEY TOPICS AND DEBATES IN THIS EXCITING SUBJECT COMPRISING TWENTY THREE CHAPTERS BY A TEAM OF INTERNATIONAL CONTRIBUTORS THE HANDBOOK IS DIVIDED INTO SIX PARTS HISTORICAL AND SOCIOLOGICAL CONTEXTS FOCUSING ON THE EMERGENCE OF THE TERM AND EARLY ATTEMPTS TO MEASURE BIODIVERSITY WHAT IS BIODIVERSITY HOW SHOULD BIODIVERSITY BE DEFINED HOW CAN BIODIVERSITY INCLUDE ENTITIES AT THE EDGE OF ITS BOUNDARIES INCLUDING MICROBIAL DIVERSITY AND GENETICALLY ENGINEERED ORGANISMS WHY PROTECT BIODIVERSITY WHAT CAN TRADITIONAL ENVIRONMENTAL ETHICS CONTRIBUTE TO BIODIVERSITY TOPICS COVERED INCLUDE ANTHROPOCENTRISM INTRINSIC VALUE AND ETHICAL CONTROVERSIES SURROUNDING THE ECONOMICS OF BIODIVERSITY MEASUREMENT AND METHODOLOGY INCLUDING DECISION THEORY AND CONSERVATION THE USE OF INDICATORS FOR BIODIVERSITY AND THE CHANGING USE OF GENETICS IN BIODIVERSITY CONSERVATION SOCIAL CONTEXTS AND GLOBAL JUSTICE INCLUDING CONSERVATION AND COMMUNITY CONFLICTS AND BIODIVERSITY AND CULTURAL VALUES BIODIVERSITY AND OTHER ENVIRONMENTAL VALUES HOW DOES BIODIVERSITY RELATE TO OTHER VALUES LIKE ECOLOGICAL RESTORATION OR ECOLOGICAL SUSTAINABILITY ESSENTIAL READING FOR STUDENTS AND RESEARCHERS IN PHILOSOPHY ENVIRONMENTAL SCIENCE AND ENVIRONMENTAL STUDIES AND CONSERVATION MANAGEMENT IT WILL ALSO BE EXTREMELY USEFUL TO THOSE STUDYING BIODIVERSITY IN SUBJECTS SUCH AS BIOLOGY AND GEOGRAPHY

THIS OECD HANDBOOK SHOWS HOW PUBLIC POLICY IN THE FORM OF MARKET CREATION CAN BE USED TO INTERNALISE THE LOSS OF BIODIVERSITY IT PROMOTES THE USE OF MARKETS TO ENSURE THAT OUR COLLECTIVE PREFERENCES FOR CONSERVATION AND SUSTAINABLE USE ARE REFLECTED IN ECONOMIC OUTCOMES

THIS TIMELY VOLUME EXPLORES THE MULTIPLE ISSUES SURROUNDING BIOLOGICAL DIVERSITY IN ADDITION TO AN OVERVIEW OF THE MAJOR ISSUES IN BIODIVERSITY THIS BOOK FEATURES A CHRONOLOGY AND BIOGRAPHICAL SKETCHES OF IMPORTANT INDIVIDUALS IN THE FIELD READERS ALSO WILL FIND RELATED STATISTICS DOCUMENTS AND ILLUSTRATIONS AS WELL AS A DIRECTORY OF ORGANIZATIONS THAT INCLUDES WEB SITE ADDRESSES A GLOSSARY AND DETAILED LISTING OF PRINT AND ELECTRONIC SOURCES COMPLETE AN INFORMATIVE VOLUME THAT STUDENTS LIBRARIANS POLICY MAKERS ENVIRONMENTALISTS AND OTHERS WILL WELCOME AS AN INVALUABLE ADDITION TO ACADEMIC AND PUBLIC LIBRARIES

THIS HANDBOOK PROVIDES A STATE OF THE ART COMPREHENSIVE OVERVIEW OF THE EXPANDING FIELD OF URBAN BIODIVERSITY THE FIELD OF URBAN BIODIVERSITY HAS EMERGED FROM WITHIN THE BROAD DISCIPLINE OF URBAN ECOLOGY IN THE PAST TWO DECADES AND IS NOW A SIGNIFICANT FIELD IN ITS OWN RIGHT IN VIEW OF THIS THE ROUTLEDGE HANDBOOK OF URBAN BIODIVERSITY PRESENTS A THOROUGH TREATMENT OF THIS FIELD DETAILING THE HISTORY OF URBAN BIODIVERSITY THEORETICAL FOUNDATIONS CURRENT STATE OF KNOWLEDGE AND APPLICATION OF THAT KNOWLEDGE THE HANDBOOK IS SPLIT INTO FOUR PARTS PART I SETTING THE STAGE FOR URBAN BIODIVERSITY RESEARCH AND PRACTICE PART II FOUNDATIONAL CONCEPTS AND THEORY IN URBAN BIODIVERSITY RESEARCH PART III POPULATION AND COMMUNITY ECOLOGY OF KEY URBAN TAXA PART IV URBAN BIODIVERSITY PRACTICE MANAGEMENT PLANNING AND DESIGN FOR HEALTHY COMMUNITIES THIS VOLUME CONTAINS INTERDISCIPLINARY AND GLOBAL CONTRIBUTIONS FROM ESTABLISHED AND EARLY CAREER ACADEMICS AS WELL AS PROFESSIONALS AND PRACTITIONERS ADDRESSING TWO KEY FIELDS IN URBAN BIODIVERSITY FUNDAMENTAL RESEARCH FOCUSED ON ANSWERING QUESTIONS ABOUT THE MECHANISMS EXPLAINING THE DISTRIBUTION OF SPECIES AMONG AND WITHIN CITIES

AND APPLIED RESEARCH AND WORK BY PRACTITIONERS TO ADDRESS CONCERN S ABOUT URBAN BIODIVERSITY CONSERVATION RESTORATION PLANNING DESIGN AND PUBLIC INVOLVEMENT THIS HANDBOOK IS ESSENTIAL READING FOR STUDENTS ACADEMICS AND PROFESSIONALS INTERESTED AND WORKING IN THE FIELDS OF URBAN BIODIVERSITY ECOLOGY NATURE CONSERVATION URBAN PLANNING AND LANDSCAPE ARCHITECTURE CHAPTERS 15 AND 22 OF THIS BOOK ARE FREELY AVAILABLE AS A DOWNLOADABLE OPEN ACCESS PDF AT TAYLORFRANCIS COM UNDER A CREATIVE COMMONS ATTRIBUTION NON COMMERCIAL NO DERIVATIVES CC BY NC ND 4 0 LICENSE

HABITAT MANAGEMENT IS COMMONLY USED TO MAINTAIN AND ENHANCE THE BIOLOGICAL INTEREST OF MANY AREAS OF SEMI NATURAL HABITAT WHERE NATURAL PROCESSES NO LONGER CREATE SUITABLE CONDITIONS FOR DESIRED SPECIES HABITAT RESTORATION AND CREATION IS INCREASINGLY BEING USED TO INCREASE THE EXTENT OF ECOLOGICALLY IMPORTANT HABITATS IN ORDER TO MITIGATE THE IMPACTS OF HUMAN DEVELOPMENT THE MODIFICATION OF PAST MANAGEMENT TECHNIQUES AND THE INTRODUCTION OF NEW ONES CAN PROVIDE ADDITIONAL BENEFITS THIS BOOK DESCRIBES THE RANGE OF TECHNIQUES USED TO MANAGE LAND FOR BIODIVERSITY CONSERVATION THE OPENING SECTIONS DISCUSS THE GENERAL PRINCIPLES OF HABITAT MANAGEMENT INCLUDING DECISION MAKING MITIGATING DAMAGING EFFECTS OF CLIMATE CHANGE AND MONITORING THE SUCCESS OF MANAGEMENT THESE ARE FOLLOWED BY A SERIES OF CHAPTERS WHICH DESCRIBE HOW TO MANAGE SPECIFIC HABITATS GRASSLANDS DWARF SHRUB VEGETATION AND SHRUBLANDS FORESTS WOODLANDS AND SCRUB FRESHWATER WETLANDS COASTAL HABITATS ARABLE LAND AND GARDENS BACKYARDS AND URBAN AREAS FOR EACH OF THESE HABITATS THE BOOK DISCUSSES THE MAIN FACTORS INFLUENCING THEIR VALUE FOR WILDLIFE HIGHLIGHTS THE KEY DECISIONS THAT NEED TO BE MADE AND DESCRIBES AND COMPARES THE EFFECTS OF INDIVIDUAL MANAGEMENT TECHNIQUES

THIS VOLUME PROVIDES A REFERENCE TEXTBOOK AND COMPREHENSIVE COMPILATION OF MULTIFACETED PERSPECTIVES ON THE LEGAL ISSUES ARISING FROM THE CONSERVATION AND EXPLOITATION OF NON HUMAN BIOLOGICAL RESOURCES CONTRIBUTORS INCLUDE LEADING ACADEMICS POLICY MAKERS AND PRACTITIONERS REVIEWING A RANGE OF SOCIO LEGAL ISSUES CONCERNING THE RELATIONSHIPS BETWEEN HUMANKIND AND THE NATURAL WORLD THE ROUTLEDGE HANDBOOK OF BIODIVERSITY AND THE LAW INCLUDES CHAPTERS ON FUNDAMENTAL AND CUTTING EDGE ISSUES INCLUDING DISCUSSION OF MAJOR LEGAL INSTRUMENTS SUCH AS THE CONVENTION ON BIOLOGICAL DIVERSITY AND THE NAGOYA PROTOCOL THE BOOK IS DIVIDED INTO SIX DISTINCT PARTS BASED AROUND THE MAJOR OBJECTIVES WHICH HAVE EMERGED FROM LEGAL FRAMEWORKS CONCERNED WITH PROTECTING BIODIVERSITY FOLLOWING INTRODUCTORY CHAPTERS PART II EXAMINES ISSUES RELATING TO CONSERVATION AND SUSTAINABLE USE OF BIODIVERSITY WITH PART III FOCUSING ON ACCESS AND BENEFIT SHARING PART IV DISCUSSES LEGAL ISSUES ASSOCIATED WITH THE PROTECTION OF TRADITIONAL KNOWLEDGE CULTURAL HERITAGE AND INDIGENOUS HUMAN RIGHTS PARTS V AND VI FOCUS ON A SELECTION OF INTELLECTUAL PROPERTY ISSUES CONNECTED TO THE COMMERCIAL EXPLOITATION OF BIOLOGICAL RESOURCES AND ANALYSE ETHICAL ISSUES INCLUDING VIEWPOINTS FROM ECONOMIC ETHNOBOTANICAL PHARMACEUTICAL AND OTHER SCIENTIFIC INDUSTRY PERSPECTIVES

A PRACTITIONER S GUIDE TO FRESHWATER BIODIVERSITY CONSERVATION BRINGS TOGETHER KNOWLEDGE AND EXPERIENCE FROM CONSERVATION PRACTITIONERS AND EXPERTS AROUND THE WORLD TO HELP READERS UNDERSTAND THE GLOBAL CHALLENGE OF CONSERVING BIODIVERSITY IN FRESHWATER ECOSYSTEMS MORE IMPORTANTLY IT OFFERS SPECIFIC STRATEGIES AND SUGGESTIONS FOR MANAGERS TO USE IN ESTABLISHING NEW CONSERVATION INITIATIVES OR IMPROVING THE EFFECTIVENESS OF EXISTING INITIATIVES THE BOOK OFFERS AN UNDERSTANDING OF FUNDAMENTAL ISSUES BY EXPLAINING HOW ECOSYSTEMS ARE STRUCTURED AND HOW THEY SUPPORT BIODIVERSITY PROVIDES SPECIFIC INFORMATION AND APPROACHES FOR IDENTIFYING AREAS MOST IN NEED OF PROTECTION EXAMINES PROMISING STRATEGIES THAT CAN HELP REDUCE BIODIVERSITY LOSS AND DESCRIBES DESIGN CONSIDERATIONS AND METHODS FOR MEASURING SUCCESS WITHIN AN ADAPTIVE MANAGEMENT FRAMEWORK THE BOOK DRAWS ON EXPERIENCE AND KNOWLEDGE GAINED DURING A FIVE YEAR PROJECT OF THE NATURE CONSERVANCY KNOWN AS THE FRESHWATER INITIATIVE WHICH BROUGHT TOGETHER A RANGE OF PRACTITIONERS TO CREATE A LEARNING LABORATORY FOR TESTING IDEAS APPROACHES TOOLS STRATEGIES AND METHODS FOR PROFESSIONALS INVOLVED WITH

LAND OR WATER MANAGEMENT INCLUDING STATE AND FEDERAL AGENCY STAFF SCIENTISTS AND RESEARCHERS WORKING WITH CONSERVATION ORGANIZATIONS STUDENTS AND FACULTY INVOLVED WITH FRESHWATER ISSUES OR BIODIVERSITY CONSERVATION AND POLICYMAKERS CONCERNED WITH ENVIRONMENTAL ISSUES THE BOOK REPRESENTS AN IMPORTANT NEW SOURCE OF INFORMATION IDEAS AND APPROACHES

THE RELENTLESS EXPLOITATION AND UNSUSTAINABLE USE OF WILDLIFE WHETHER FOR FOOD MEDICINE OR OTHER USES IS A KEY CONCERN FOR CONSERVATIONISTS WORLDWIDE INDEED WILDLIFE CONSERVATION AND SUSTAINABLE USE HAVE RECENTLY BECOME CENTREPIECES IN CONSERVATION AND DEVELOPMENT RESEARCH ASSESSMENT INTERPRETATION AND ULTIMATE ACTION IN A SCIENTIFIC STUDY OF EXPLOITED SPECIES MUST CONSIDER NUMEROUS FACTORS FROM THE BIOLOGY HABITAT REQUIREMENTS AND POPULATION DYNAMICS OF THE SPECIES IN QUESTION TO THE RELATIONSHIPS THAT PEOPLE HAVE WITH THEIR ENVIRONMENT AND THE SPECIES WITHIN IT ANY LONG TERM MANAGEMENT PLAN MUST ENSURE THAT PEOPLE AND WILDLIFE CAN COEXIST OTHERWISE IT IS DOOMED TO FAILURE CONSERVATION AND SUSTAINABLE USE PROVIDES A PRACTICAL AND INTEGRATED APPROACH TO CARRYING OUT RESEARCH ON THE CONSERVATION OF EXPLOITED SPECIES IT IS RELEVANT TO BOTH TROPICAL AND TEMPERATE BIOMES AND IS APPLICABLE TO ALL EXPLOITED SPECIES INCLUDING MAMMALS FISH AND PLANTS IT DESCRIBES BOTH THE PRACTICAL FIELD AND THEORETICAL MODELLING TECHNIQUES FOR OBTAINING AND INTERPRETING INFORMATION INTEGRATING BIOLOGICAL SOCIAL ECONOMIC AND INSTITUTIONAL ANALYSES IT ALSO DEMONSTRATES HOW TO TRANSLATE INFORMATION INTO EFFECTIVE ACTION THROUGH APPROPRIATE INTERVENTIONS FROM LEGISLATION TO CHANGING PEOPLE'S ATTITUDES THIS IS THE FIRST TIME THAT ALL THESE ISSUES HAVE BEEN COVERED TOGETHER IN A SINGLE PRACTICALLY ORIENTATED VOLUME THIS BOOK WILL BE ESSENTIAL READING FOR GRADUATE LEVEL STUDENTS AND RESEARCHERS IN CONSERVATION BIOLOGY HUMAN ECOLOGY SOCIOLOGY AND RESOURCE ECONOMICS IT WILL ALSO PROVIDE AN IMPORTANT REFERENCE FOR ANYONE WHO IS INTERESTED IN CARRYING OUT A SCIENTIFICALLY BASED CONSERVATION PROGRAMME FOR AN EXPLOITED SPECIES INCLUDING FIELD BIOLOGISTS WILDLIFE MANAGERS AND PRACTITIONERS IN THE FIELDS OF CONSERVATION AND INTERNATIONAL DEVELOPMENT

GOVERNMENTS NEED TO IMPLEMENT APPROPRIATE POLICIES TO ENSURE BOTH THE PRIVATE AND THE PUBLIC GOODS VALUES OF BIOLOGICAL DIVERSITY ARE REALISED UNLESS THE USERS OF BIOLOGICAL RESOURCES ARE GIVEN INCENTIVES TO SUSTAINABLY USE THESE RESOURCES VALUABLE

THE CONSERVATION OF BIODIVERSITY IS NOW BIG BUSINESS WHETHER CALLED CONSERVATION BANKING SPECIES BANKING HABITAT BANKING BIODIVERSITY BANKING BIODIVERSITY OFFSETS COMPENSATORY MITIGATION OR ECOLOGICAL FOOTPRINT OFFSETTING THE IDEA OF FINANCIALLY VALUING BIODIVERSITY AND USING THE MARKET AND BUSINESSES TO PROMOTE CONSERVATION IS GROWING RAPIDLY THIS HANDBOOK IS A COMPREHENSIVE GUIDE TO CONSERVATION BANKING EXPLAINING WHAT IT IS AND HOW IT WORKS WRITTEN BY LEADING ECOSYSTEM MARKET EXPERTS THE BOOK PROVIDES PRACTICAL GUIDANCE TOOLS CASE STUDIES ANALYSIS AND INSIGHTS INTO CONSERVATION BANKING AND OTHER MARKET BASED APPROACHES TO CONSERVATION COVERAGE INCLUDES THE ORIGINS OF CONSERVATION BANKING THE PROS AND CONS FOR CONSERVATION HOW CONSERVATION BANKING WORKS IN REALITY THE LEGAL PRACTICAL AND FINANCIAL ASPECTS OF SETTING UP AND RUNNING A CONSERVATION BANK AND HOW BIODIVERSITY OFFSETS CAN BE INTERNATIONALIZED PUBLISHED WITH ECOSYSTEM MARKETPLACE

A PRACTITIONER'S GUIDE TO FRESHWATER BIODIVERSITY CONSERVATION BRINGS TOGETHER KNOWLEDGE AND EXPERIENCE FROM CONSERVATION PRACTITIONERS AND EXPERTS AROUND THE WORLD TO HELP READERS UNDERSTAND THE GLOBAL CHALLENGE OF CONSERVING BIODIVERSITY IN FRESHWATER ECOSYSTEMS MORE IMPORTANTLY IT OFFERS SPECIFIC STRATEGIES AND SUGGESTIONS FOR MANAGERS TO USE IN ESTABLISHING NEW CONSERVATION INITIATIVES OR IMPROVING THE EFFECTIVENESS OF EXISTING INITIATIVES THE BOOK OFFERS AN UNDERSTANDING OF FUNDAMENTAL ISSUES BY EXPLAINING HOW ECOSYSTEMS ARE STRUCTURED AND HOW THEY SUPPORT BIODIVERSITY PROVIDES SPECIFIC INFORMATION AND APPROACHES FOR IDENTIFYING AREAS MOST IN NEED OF PROTECTION EXAMINES PROMISING STRATEGIES THAT CAN HELP REDUCE

BIODIVERSITY LOSS AND DESCRIBES DESIGN CONSIDERATIONS AND METHODS FOR MEASURING SUCCESS WITHIN AN ADAPTIVE MANAGEMENT FRAMEWORK THE BOOK DRAWS ON EXPERIENCE AND KNOWLEDGE GAINED DURING A FIVE YEAR PROJECT OF THE NATURE CONSERVANCY KNOWN AS THE FRESHWATER INITIATIVE WHICH BROUGHT TOGETHER A RANGE OF PRACTITIONERS TO CREATE A LEARNING LABORATORY FOR TESTING IDEAS APPROACHES TOOLS STRATEGIES AND METHODS FOR PROFESSIONALS INVOLVED WITH LAND OR WATER MANAGEMENT INCLUDING STATE AND FEDERAL AGENCY STAFF SCIENTISTS AND RESEARCHERS WORKING WITH CONSERVATION ORGANIZATIONS STUDENTS AND FACULTY INVOLVED WITH FRESHWATER ISSUES OR BIODIVERSITY CONSERVATION AND POLICYMAKERS CONCERNED WITH ENVIRONMENTAL ISSUES THE BOOK REPRESENTS AN IMPORTANT NEW SOURCE OF INFORMATION IDEAS AND APPROACHES

THE WORLD RELIES ON VERY FEW CROP AND ANIMAL SPECIES FOR AGRICULTURE AND TO SUPPLY ITS FOOD NEEDS IN RECENT DECADES THERE HAS BEEN INCREASED APPRECIATION OF THE RISK THIS IMPLIES FOR FOOD SECURITY AND QUALITY ESPECIALLY IN TIMES OF ENVIRONMENTAL CHANGE AS A RESULT AGRICULTURAL BIODIVERSITY HAS MOVED TO THE TOP OF RESEARCH AND POLICY AGENDAS THIS HANDBOOK PRESENTS A COMPREHENSIVE OVERVIEW OF OUR CURRENT KNOWLEDGE OF AGRICULTURAL BIODIVERSITY IN A SERIES OF SPECIALLY COMMISSIONED CHAPTERS IT DRAWS ON MULTIPLE DISCIPLINES INCLUDING PLANT AND ANIMAL GENETICS ECOLOGY CROP AND ANIMAL SCIENCE FOOD STUDIES AND NUTRITION AS WELL AS SOCIAL SCIENCE SUBJECTS WHICH EXPLORE THE SOCIO ECONOMIC CULTURAL INSTITUTIONAL LEGAL AND POLICY ASPECTS OF AGRICULTURAL BIODIVERSITY IT FOCUSES NOT ONLY ON THE CORE REQUIREMENTS TO DELIVER A SUSTAINABLE AGRICULTURE AND FOOD SUPPLY BUT ALSO HIGHLIGHTS THE ADDITIONAL ECOSYSTEM SERVICES PROVIDED BY A DIVERSE AND RESILIENT AGRICULTURAL LANDSCAPE AND FARMING PRACTICES THE BOOK PROVIDES AN INDISPENSABLE REFERENCE TEXTBOOK FOR A WIDE RANGE OF COURSES IN AGRICULTURE ECOLOGY BIODIVERSITY CONSERVATION AND ENVIRONMENTAL STUDIES

IN RECENT YEARS THERE HAS BEEN A MARKED PROLIFERATION IN THE LITERATURE ON ECONOMIC APPROACHES TO ECOSYSTEM MANAGEMENT WHICH HAS CREATED A SUBSEQUENT NEED FOR REAL UNDERSTANDING OF THE SCOPE AND THE LIMITS OF THE ECONOMIC APPROACHES TO ECOSYSTEMS AND

DRAFTING A CONSERVATION BLUEPRINT LAYS OUT FOR THE FIRST TIME IN BOOK FORM A STEP BY STEP PLANNING PROCESS FOR CONSERVING THE BIOLOGICAL DIVERSITY OF ENTIRE REGIONS IN AN ENGAGING AND ACCESSIBLE STYLE THE AUTHOR EXPLAINS HOW TO DEVELOP A REGIONAL CONSERVATION PLAN AND OFFERS EXPERIENCE BASED GUIDANCE THAT BRINGS TOGETHER RELEVANT INFORMATION FROM THE FIELDS OF ECOLOGY CONSERVATION BIOLOGY PLANNING AND POLICY INDIVIDUAL CHAPTERS OUTLINE AND DISCUSS THE MAIN STEPS OF THE PLANNING PROCESS INCLUDING AN OVERVIEW OF THE PLANNING FRAMEWORK SELECTING CONSERVATION TARGETS AND SETTING GOALS ASSESSING EXISTING CONSERVATION AREAS AND FILLING INFORMATION GAPS ASSESSING POPULATION VIABILITY AND ECOLOGICAL INTEGRITY SELECTING AND DESIGNING A PORTFOLIO OF CONSERVATION AREAS ASSESSING THREATS AND SETTING PRIORITIES A CONCLUDING SECTION OFFERS ADVICE ON TURNING CONSERVATION PLANS INTO ACTION ALONG WITH SPECIFIC EXAMPLES FROM AROUND THE WORLD THE BOOK BRINGS TOGETHER A WIDE RANGE OF INFORMATION ABOUT CONSERVATION PLANNING THAT IS GROUNDED IN BOTH A STRONG SCIENTIFIC FOUNDATION AND IN THE REALITIES OF IMPLEMENTATION

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