# PACLFICALMON EDITED BY C GROOT & L MARGOLIS

# **Pacific Salmon Life Histories**

Deanna J. Stouder, Peter A.
Bisson, Robert J. Naiman

#### **Pacific Salmon Life Histories:**

Pacific Salmon Life Histories Cornelis Groot, L. Margolis, 1991 Pacific salmon are an important biological and economic resource of countries of the North Pacific rim They are also a unique group of fish possessing unusually complex life histories There are seven species of Pacific salmon five occurring on both the North American and Asian continents sockeye pink chum chinook and coho and two masu and amago only in Asia The life cycle of the Pacific salmon begins in the autumn when the adult female deposits eggs that are fertilized in gravel beds in rivers or lakes The young emerge from the gravel the following spring and will either migrate immediately to salt water or spend one or more years in a river or lake before migrating Migrations in the ocean are extensive during the feeding and growing phase covering thousands of kilometres After one or more years the maturing adults find their way back to their home river returning to their ancestral breeding grounds to spawn They die after spawning and the eggs in the gravel signify a new cycle Upon this theme Pacific salmon have developed many variations both between as well as within species Pacific Salmon Life Histories provides detailed descriptions of the different life phases through which each of the seven species passes Each chapter is written by a scientist who has spent years studying and observing a particular species of salmon Some of the topics covered are geographic distribution transplants freshwater life ocean life development growth feeding diet migration and spawning behaviour The text is richly supplemented by numerous maps illustrations colour plates and tables and there is a detailed general index as well as a useful geographical index Physiological Ecology of Pacific Salmon Cornelis Groot, 2010-10-01 Every year countless juvenile Pacific salmon leave streams and rivers on their migration to feeding grounds in the North Pacific Ocean and the Bering Sea After periods ranging from a few months to several years adult salmon enter rivers along the coasts of Asia and North America to spawn and complete their life cycle Within this general outline various life history patterns both among and within species involve diverse ways of exploiting freshwater estuarine and marine habitats There are seven species of Pacific salmon Five coho chinook chum pink and sockeye occur in both North America and Asia Their complex life histories and spectacular migrations have long fascinated biologists and amateurs alike Physiological Ecology of Pacific Salmon provides comprehensive reviews by leading researchers of the physiological adaptations that allow Pacific Salmon to sustain themselves in the diverse environments in which they live It begins with an analysis of energy expenditure and continues with reviews of locomotion growth feeding and nutrition Subsequent chapters deal with osmotic adjustments enabling the passage between fresh and salt water nitrogen excretion and regulation of acid base balance circulation and gas transfer and finally responses to stress This thorough and authoritative volume will be a valuable reference for students and researchers of biology and fisheries science as they seek to understand the environmental requirements for the perpetuation of these unique and valuable species The Behavior and Ecology of Pacific Salmon and Trout Thomas P. Quinn, 2005 Few subjects have generated as much emotional dialogue around conflicting scientific and policy agendas as the protection and

management of Pacific salmon resources In this major new work esteemed fisheries expert Thomas Quinn distills from the vast scientific literature the essential information on the behavior and ecology of Pacific salmon including steelhead and cutthroat trout Unlike other books that examine only selected life stages habitats or species this book richly illustrated with beautiful photographs and original drawings thoroughly covers the complete life cycle emphasizing common themes and differences among the various species of salmon Representing the range of species and geographic regions Quinn includes examples from classic studies by pioneers of salmon biology and from the most current research to illustrate the important features of salmon life history and behavior and the complex physical biological and human factors that affect them The Behavior and Ecology of Pacific Salmon and Trout introduces salmon and trout as a group with a brief description of each species and compares them to other fishes The book then follows salmon on their amazing homeward migration from the open ocean through the complex coastal waters and upstream to the precise location where they were spawned years earlier It explains the patterns of mate choice the competition for nest sites and the fate of the salmon after their death It describes the lives of offspring during the months they spend incubating in gravel growing in fresh water and migrating out to sea to mature Quinn emphasizes the importance of salmon to humans and to natural ecosystems and the need to integrate sound biology into conservation efforts This thorough up to date survey should be on the shelf of anyone with a professional or personal interest in Pacific salmon and trout Written in a technically accurate but engaging style it will appeal to a wide range of readers including students anglers biologists conservationists legislators and armchair naturalists Change in Pacific Northwest Coastal Ecosystems Gregory R. McMurray, Robert J. Bailey, 1998 Pacific Salmon & their Ecosystems Deanna J. Stouder, Peter A. Bisson, Robert J. Naiman, 2012-02-02 The symposium Pacific Salmon and Their Ecosystems Status and Future Options and this book resulted from initial efforts in 1992 by Robert J Naiman and Deanna J Stouder to examine the problem of declining Pacific salmon Oncorhynchus spp Our primary goal was to determine informational gaps As we explored different scientific sources state provincial and federal agencies as well as non profit and fishing organizations we found that the information existed but was not being communicated across institutional and organizational boundaries At this juncture we decided to create a steering committee and plan a symposium to bring together researchers managers and resource users The steering committee consisted of members from state and federal agencies non profit organizations and private industry see Acknowledgments for names and affiliations In February 1993 we met at the University of Washington in Seattle to begin planning the symposium The steering committee spent the next four months developing the conceptual framework for the symposium and the subsequent book Our objectives were to accomplish the following 1 assess changes in anadromous Pacific Northwest salmonid populations 2 examine factors responsible for those changes and 3 identify options available to society to restore Pacific salmon in the Northwest The symposium on Pacific Salmon was held in Seattle Washington January 10 12 1994 Four hundred and thirty five people listened to oral

presentations and examined more than forty posters over two and a half days We made a deliberate attempt to draw in speakers and attendees from outside the Pacific Northwest Fort Lewis and Yakima Training Center, Fort Lewis Army Ecological and Genetic Implications of Aquaculture Activities Theresa M. *Growth and Force Structure Realignment*, 2010 Bert, 2007-08-30 In this book numerous prominent aquaculture researchers contribute 27 chapters that provide overviews of aguaculture effects on the environment They comprise a comprehensive synthesis of many ecological and genetic problems implicated in the practice of aquaculture and of many proven attempted or postulated solutions to those problems This is an outstanding source of reference for all types of aquaculture activities Katmai National Park & Preserve (N.P), Brooks River Visitor Access ,2012 Climate Change and Northern Fish Populations National Research Council Canada, Canada. Department of Fisheries and Oceans, 1995 These documents summarize some of the recent studies of the relationships among climate the aquatic environment and the dynamics of fish populations. The studies are mostly from the North Pacific ocean but there are reports of investigations from the North Atlatic Ocean and from fresh water Various papers include numerous examples of the relationships between fish abundance trends and the environment Management Robert Naiman, Robert E. Bilby, 2001-02-16 As the vast expanses of natural forests and the great populations of salmonids are harvested to support a rapidly expanding human population the need to understand streams as ecological systems and to manage them effectively becomes increasingly urgent The unfortunate legacy of such natural resource exploitation is well documented For several decades the Pacific coastal ecoregion of North America has served as a natural laboratory for scientific and managerial advancements in stream ecology and much has been learned about how to better integrate ecological processes and characteristics with a human dominated environment These in sightful but hard learned ecological and social lessons are the subject of this book Integrating land and rivers as interactive components of ecosystems and watersheds has provided the ecological sciences with important theoretical foundations Even though scientific disciplines have begun to integrate land based processes with streams and rivers the institutions and processes charged with managing these systems have not done so successfully As a result many of the watersheds of the Pacific coastal ecoregion no longer support natural settings for environmental processes or the valuable natural resources those processes create An important role for scientists educators and decision makers is to make the integration between ecology and con sumptive uses more widely understood as well as useful for effective management General Technical Report PNW-GTR ,1999

**Nez Perce National Forest (N.F.), Clean Slate Ecosystem Management Project** ,2003 *Principles of Salmonid Culture* W. Pennell,B.A. Barton,1996-10-11 As salmonids have been reared for more than a century in many countries one might expect that principles are well established and provide a solid foundation for salmonid aquaculture Indeed some of the methods used today in salmonid rearing are nearly identical to those employed one hundred years ago Areas of salmonid research today include nutrition smolt and stress physiology genetics and biotechnology The purpose of this book is to

provide a useful synthesis of the biology and culture of salmonid fishes The important practices in salmonid culture as well as the theory behind them is described This volume will be of interest to students researchers fisheries biologists and managers as well as practising aquaculturists Proposed Issuance of Multiple Species Incidental Take Permits Or 4(d) Rules Covering the Washington State Forest Practices Habitat Conservation Plan ,2005 Report to Congress, 1995 Research The Archaeology of North Pacific Fisheries Madonna L. Moss, Aubrey Cannon, 2011-11-15 For thousands of years fisheries were crucial to the sustenance of the First Peoples of the Pacific Coast Yet human impact has left us with a woefully incomplete understanding of their histories prior to the industrial era Covering Alaska British Columbia and Puget Sound The Archaeology of North Pacific Fisheries illustrates how the archaeological record reveals new information about ancient ways of life and the histories of key species Individual chapters cover salmon as well as a number of lesser known species abundant in archaeological sites including pacific cod herring rockfish eulachon and hake In turn this ecological history informs suggestions for sustainable fishing in today's rapidly changing environment Chukchi Sea Planning Area, Oil and Gas Sale 193 and the Seismic Surveying Activities in the Chukchi Sea, 2007 The Freshwater Fishes of British Columbia J. D. McPhail, 2007-09-28 The threat of deteriorating habitats and a loss of biodiversity make this reference work on the freshwater fishes of British Columbia more necessary than ever before Eighty one comprehensive species accounts aid accurate identification and consist of an illustration the scientific and common names of the fish its distinguishing characteristics taxonomic comments geographic distribution a life history summary a habitat use summary and conservation comments The book is a critical resource for biologists naturalists management and conservation officers anglers and members of the public who are concerned about our natural heritage Foreword by Joseph S Nelson

Encyclopedia of Ocean Sciences ,2019-04-12 The oceans cover 70% of the Earth's surface and are critical components of Earth's climate system. This new edition of Encyclopedia of Ocean Sciences Six Volume Set summarizes the breadth of knowledge about them providing revised up to date entries as well coverage of new topics in the field. New and expanded sections include microbial ecology high latitude systems and the cryosphere climate and climate change hydrothermal and cold seep systems. The structure of the work provides a modern presentation of the field reflecting the input and different perspective of chemical physical and biological oceanography the specialized area of expertise of each of the three Editors in Chief In this framework maximum attention has been devoted to making this an organic and unified reference Represents a one stop organic information resource on the breadth of ocean science research Reflects the input and different perspective of chemical physical and biological oceanography the specialized area of expertise of each of the three Editors in Chief New and expanded sections include microbial ecology high latitude systems and climate change Provides scientifically reliable information at a foundational level making this work a resource for students as well as active researches

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