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Groundwater Extraction from a Geomorphically Active River River Dynamics River Flow 2020 Active Tectonics and Alluvial Rivers Rio Grande and Tributaries, Rio Puerco and Rio Salado Dam Construction **Indus Age** *Hemet/San Jacinto Integrated Recharge and Recovery Program, Riverside County* Tongue River Railroad Company, Inc., Construction and Operation, Western Alignment, Tongue River III, Rosebud and Big Horn Counties San Juan National Forest (N.F.) H.D. Mountains Coalbed Methane Gas Field Development Project, Archuleta County **Montana Statewide Oil and Gas and Proposed Amendment of the Powder River and Billings Resource Management Plans Hydropower License, Pit 3, 4, 5 Hydroelectric Project** *The Variability of Large Alluvial Rivers Management of Morphologically Active Rivers Prado Basin Water Conservation Feasibility Study* **Geomorphic analysis of the river response to sedimentation downstream of Mount Rainier, Washington Active Tectonics** *River Restoration and Biodiversity* **A Field Guide to British Rivers River Mechanics** *The American Geologist* **General Technical Report RM.** *Industries of New Jersey: Morris, Hunterdon, Warren and Sussex counties* **Geo. P. Rowell and Co.'s American Newspaper Directory Europe (with Exception of the British Isles) Rivers Bulletin de L'Académie Polonaise Des Sciences** *Dynamics of Gravel-bed Rivers* **Water Resources Development by the U.S. Army Corps of Engineers in North Carolina Lower San Joaquin River and Tributaries, California Record of Public Hearing on Potomac River Basin Report, Held in Departmental Auditorium, Washington, D.C., 4 September 1963** *Public Works for Water, Pollution Control, and Power Development and Atomic Energy Commission Appropriations for Fiscal Year ...* **Arctic Research of the United States** U.S. Geological Survey Professional Paper *Where Rivers Meet* Land of Mountain and Flood **New Orleans to Venice Hurricane Protection and Barrier Features Holt Science and Technology 2002 Authorized Report of the Proceedings of the Church Congress Held at ... on ...** California's Rivers **Bulletin - [North Carolina, Geological Survey Section]**

"Part Four is a culture history of the peoples of the Indus Age from the beginnings of food production and domestication of plants and animals to the threshold of civilization in the region."--BOOK JACKET. Describes how rivers respond to active tectonics for graduate students, consultants and academic researchers. A study of the geomorphology of rivers draining Mount Rainier, Washington, was completed to identify sources of sediment to the river network; to identify important processes in the sediment delivery system; to assess current sediment loads in rivers draining Mount Rainier; to evaluate if there were trends in streamflow or sediment load since the early 20th century; and to assess how rates of sedimentation might continue into the future using published climate-change scenarios. Rivers draining Mount Rainier carry heavy sediment loads sourced primarily from the volcano that cause acute aggradation in deposition reaches as far away as the Puget Lowland. Calculated yields ranged from 2,000 tonnes per square kilometer per year [(tonnes/km2)/yr] on the upper Nisqually River to 350 (tonnes/km2)/yr on the lower Puyallup River, notably larger than sediment yields of 50–200 (tonnes/km2)/yr typical for other Cascade Range rivers. These rivers can be assumed to be in a general state of sediment surplus. As a result, future aggradation rates will be largely influenced by the underlying hydrology carrying sediment downstream. The active-channel width of rivers directly draining Mount Rainier in 2009, used as a proxy for sediment released from Mount Rainier, changed little between 1965 and 1994 reflecting a climatic period that was relatively quiet hydrogeomorphically. From 1994 to 2009, a marked increase in geomorphic disturbance caused the active channels in many river reaches to widen. Comparing active-channel widths of glacier-draining rivers in 2009 to the distance of glacier retreat between 1913 and 1994 showed no correlation, suggesting that geomorphic disturbance in river reaches directly downstream of glaciers is not strongly governed by the degree of glacial retreat. In contrast, there was a correlation between active-channel width and the percentage of superglacier debris mantling the glacier, as measured in 1971. A conceptual model of sediment delivery processes from the mountain indicates that rockfalls, glaciers, debris flows, and main-stem flooding act sequentially to deliver sediment from Mount Rainier to river reaches in the Puget Lowland over decadal time scales. Greater-than-normal runoff was associated with cool phases of the Pacific Decadal Oscillation. Streamflow-gaging station data from four unregulated rivers directly draining Mount Rainier indicated no statistically significant trends of increasing peak flows over the course of the 20th century. The total sediment load of the upper Nisqually River from 1945 to 2011 was determined to be 1,200,000±180,000 tonnes/yr. The suspended-sediment load in the lower Puyallup River at Puyallup, Washington, was 860,000±300,000 tonnes/yr between 1978 and 1994, but the long-term load for the Puyallup River likely is about 1,000,000±400,000 tonnes/yr. Using a coarse-resolution bedload transport relation, the long-term average bedload was estimated to be about 30,000 tonnes/yr in the lower White River near Auburn, Washington, which was four times greater than bedload in the Puyallup River and an order of magnitude greater than bedload in the Carbon River. Analyses indicate a general increase in the sediment loads in Mount Rainier rivers in the 1990s and 2000s relative to the time period from the 1960s to 1980s. Data are insufficient, however, to determine definitively if post-1990 increases in sediment production and transport from Mount Rainier represent a statistically significant increase relative to sediment-load values typical from Mount Rainier during the entire 20th century. One-dimensional river-hydraulic and sediment-transport models simulated the entrainment, transport, attrition, and deposition of bed material. Simulations showed that bed-material loads were largest for the Nisqually River and smallest for the Carbon River. The models were used to simulate how increases in sediment supply to rivers transport through the river systems and affect lowland reaches. For each simulation, the input sediment pulse evolved through a combination of translation, dispersion, and attrition as it moved downstream. The characteristic transport times for the median sediment-size pulse to arrive downstream for the Nisqually, Carbon, Puyallup, and White Rivers were approximately 70, 300, 80, and 60 years, respectively. Rivers form one of the lifelines in our society by providing essential services such as availability of fresh water, navigation, energy, ecosystem services, and flood conveyance. Because of this essential role, mankind has interfered continuously in order to benefit most and at the same time avoid adverse consequences such as flood risk and droughts. This has resulted in often highly engineered rivers with a narrow set of functions. In the last decades rivers are increasingly considered in a more holistic manner as a system with a multitude of interdependent processes. River research and engineering has therefore added to the river fundamentals also themes like ecohydraulics, consequences of climate change, and urbanisation. River Flow 2020 contains the contributions presented at the 10th conference on Fluvial Hydraulics, River Flow 2020, organised under the auspices of the Committee on Fluvial Hydraulics of the International Association for Hydro-Environment Engineering and Research (IAHR). What should have been a lively physical gathering of researchers, students and practitioners, was converted into an online event as the COVID-19 pandemic hindered international travelling and large gatherings of people. Nevertheless, the fluvial hydraulics community showed their interest and to be very much alive with a high number of participations for such event. Since its first edition in 2002, in Louvain-la-Neuve, this series of conferences has found a large and loyal audience in the river research and engineering community while being also attractive to the new researchers and young professionals. This is highlighted by the large number of contributions applying for the Coleman award for young researchers, and also by the number of applications and attendants to the Master Classes which are aimed at young researchers and students. River Flow 2020 aims to provide an updated overview of the ongoing research in this wide range of topics, and contains five major themes which are focus of research in the fluvial environment: river fundamentals, the digital river, the healthy river, extreme events and rivers under pressure. Other highlights of River Flow 2020 include the substantial number of interdisciplinary subthemes and sessions of special interest. The contributions will therefore be of interest to academics in hydraulics, hydrology and environmental engineering as well as practitioners that would like to be updated about the newest findings and hot themes in river research and engineering. Contains articles by leading international experts in their respective fields. Papers are grouped into 17 topics that cover fundamental and applied issues involving the considerable progress made on sediment transport dynamics. Recent research provides insights into subjects such as selective entrainment, equal mobility, armouring processes, transport of fine material, mathematical sediment transport and morphological models as well as the impact of engineering works and catchment development projects on channel stability. Scotland is justly famed for its magnificent scenery - mountains, lochs, islands, wild rocky places and sandy beaches. All this is evidence of an exciting geological history which began 3,500 billion years ago and is still continuing. The sheer diversity of Scotland's rocks and landforms are the physical reminders of a fascinating journey through time. They reveal that the land that makes up Scotland today has travelled the world and has not always even belonged to one single continental landmass. At different times, too, continents formed and split apart, ancient volcanoes erupted vast quantities of lava and Ice Age glaciers shaped the landscape. Containing a huge amount of detailed information presented in clear, comprehensible language and enhanced throughtout with specially commissioned illustrations, diagrams and photographs, this is an essential book for anyone interested in the world around them. Experts detail specific river engineering problems and a geomorphic-engineering approach to large river management. The paper addresses the need in mobile bed river system to evaluate the formative conditions remote from a particullar study site, in addition to the river hydraulics and sediment mechanics at the site. Often the engineer's response to local river behaviour and problems is spontaneous, and quite inappropriate river works or management schemes may be invoked. The broader morphological picture and history, coupled with the long experience of the river morphologist, are important ingredients to proper management of the rivers. Case studies for a gravel bed river in Papua New Guinea and a sand/silt bed river in Bangladesh are used to support the broader-scale management approach. [Author's abstract]. This book is the story of an area of landscape in the English Midlands from earliest prehistory to around AD 900. Although it looks like a typical rural landscape, archaeological research, much of it in advance of quarrying, has revealed that this area has a long and remarkable history of occupation stretching back to the Ice Age. In particular at Catholme the project has revealed spectacular monuments from the Neolithic and Bronze Age (including a 'woodhenge-type' monument, a 'sunburst' monument and a cursus) that represent a regional expression of the monumental traditions of the age of Stonehenge. Temperate rivers are influenced by many factors including geology, climate, soils, sediment type, flow, as well as human activity. The complex interactions of the non-anthropogenic controlling factors have led to a wonderful diversity of river type throughout the British Isles. Sadly, almost all rivers in the UK have suffered significant and long-lasting modification by unsympathetic management, that has all but destroyed this variety, creating watercourses that are simplified conduits for water and sediment, designed primarily to drain the land and reduce flood risk. This volume aims to help reverse this, illustrating using over 200 images and descriptions, this variety of rivers in Britain, highlighting the many forms that temperate river systems take and providing an accessible summary of the underlying river science knowledge base. A Field Guide to British Rivers covers the full range of upland and lowland channel types and describes the full variety of substrate conditions from bedrock through boulder, cobble and gravel, to silt dominated systems. The authors describe examples gathered from their extensive research and practical experience working with rivers throughout mainland Britain and set those examples in their wider landscape context to exemplify the natural functioning of temperate river types. This book offers a practical and contextualised guide to contribute to efforts towards the sympathetic and sustainable restoration and re-naturalisation of degraded channels in the UK. Offering a unique viewpoint of both the underpinning science and the practicalities of river management, A Field Guide to British Rivers is an essential a stand-alone guide for anyone involved in river restoration and management as well as for those simply interested in rivers in general. Written as a field guide to demonstrate practical examples of river types, and to highlight the pressures they experience and their often-parlous condition, this book is intended to better inform both river management approaches and the policy necessary to achieve this. Fundamentally, the authors seek to demonstrate how the hydrological, geomorphological, and ecological functions of rivers and their catchments are inexorably intertwined, and together how they generate and maintain rivers as dynamic entities. Over 250,000 people were killed in the Tangshan, China earthquake of 1976, and other less active tectonic processes can disrupt river channels or have a grave impact on repositories of radioactive wastes. Since tectonic processes can be critical to many human activities, the Geophysics Study Committee Panel on Active Tectonics has presented an evaluation of the current state of knowledge about tectonic events, which include not only earthquakes but volcanic eruptions and similar events. This book addresses three main topics: the tectonic processes and their rates, methods of identifying and evaluating active tectonics, and the effects of active tectonics on society. Rivers are important agents of change that shape the Earth's surface and evolve through time in response to fluctuations in climate and other environmental conditions. They are fundamental in landscape development, and essential for water supply, irrigation, and transportation. This book provides a comprehensive overview of the geomorphological processes that shape rivers and that produce change in the form of rivers. It explores how the dynamics of rivers are being affected by anthropogenic change, including climate change, dam construction, and modification of rivers for flood control and land drainage. It discusses how concern about environmental degradation of rivers has led to the emergence of management strategies to restore and naturalize these systems, and how river management techniques work best when coordinated with the natural dynamics of rivers. This textbook provides an excellent resource for students, researchers, and professionals in fluvial geomorphology, hydrology, river science, and environmental policy. Completely updated and with three new chapters, this analysis of river dynamics is invaluable for advanced students, researchers and practitioners.

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