

Cataclysms on the Columbia

The Great Missoula Floods
Revised Second Edition

John Eliot Allen
Marjorie Burns
Scott Burns

OPEN



BOOK

Cataclysms On The Columbia The Great Missoula Floods Openbook

Rick Thompson (Artist)



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Cataclysms on the Columbia John Eliot Allen, Marjorie Burns, Scott Burns, 2009 Cataclysms on the Columbia chronicles the geological research that led to the discovery of powerful prehistoric floods that shaped the Pacific Northwest *GigaFlood* Rick Thompson, 2015-07-15 The Ice Age Lake Missoula Floods affected four states and left much evidence of their passing Most dramatic are the scablands of eastern Washington With few exceptions all other books on the subject stop at the west end of the Columbia River Gorge *GigaFlood* reveals the effects of the largest Lake Missoula Flood in northwest Oregon and southwest Washington with photos maps and illustrations This much neglected area has more subtle features from these floods that inundated the Portland Vancouver area Willamette and other valleys with up to 400 feet of water *GigaFlood* shows you where to find the ice rafted erratics giant current ripples huge gravel bars and flood channels that were a result of these cataclysms **GigaFlood** Rick Thompson, 2023-03-15 Book is in Russian Revealing the effects of the Lake Missoula Flood in Northwest Oregon and Southwest Washington Covers the Columbia River Gorge Clark County Washington and in Oregon the Portland Basin Tualatin Yamhill and Willamette and Clackamas Valleys Details visible incoming and outgoing flood channels erosional remnants kolks erratics and other flood evidences visible today GigaFlood Rick Thompson (Artist), 2014-07-01 Revealing the effects of the Lake Missoula Flood in Northwest Oregon and Southwest Washington Covers the Columbia River Gorge Clark County Washington and in Oregon the Portland Basin Tualatin Yamhill and Willamette and Clackamas Valleys Details visible incoming and outgoing flood channels erosional remnants kolks erratics and other flood evidences visible today **Bretz's Flood** John Soennichsen, 2010-06-01 The masterful story of the scientific rebel who dared to think outside the box and changed the course of geologic history The land between Idaho and the Cascade Mountains is characterized by gullies coulees and deserts in geologic terms it is a wholly unique place on the earth In the 1920s legendary geologist and professor J Harlen Bretz peered back in time to answer the riddle of how this land came to be becoming one of the first people to explore the area Defying the conventional wisdom of his peers Bretz saw a landscape that had been instantly scoured by a flood of unprecedented scale Though met with public and academic humiliation his theory sounded too much like the biblical flood Bretz persevered and went on to discover what everyone else had failed to see Bretz's Flood tells the dramatic story of this scientific maverick how he came to study the region his radical theory that a huge flood created it and how the mainstream geologic community campaigned to derail him from pursuing an idea that satellite photos would confirm decades later **Beyond the Channeled Scabland** Jim O'Connor, 1994 **Paleohydrology and Sedimentology of Lake Missoula Flooding in Eastern Washington** Victor R. Baker, 1973-01-01 **The Last Climb** Shannon Skaer, 2024-11-08 Ice Age Oregon Columbia River Gorge The earth vibrates and a distant roar filters through the forest Parents call for their children warriors gather in tight knots throwing frightened glances at the sky the trees the ground A monster comes With the article What Was the Missoula Flood by Michael Oard this little book will give you a snapshot of the true apocalyptic disaster

that shaped the landscape of the Pacific Northwest forever In the days of cave bears saber toothed cats ice and woolly mammoths the Pacific Northwest was a different place This true fiction book about an apocalyptic disaster will change the way you see the Columbia Gorge and the Willamette Valley Oregon

Ancient Cataclysmic Floods in the Pacific Northwest Erica Medley, 2012 Ancient cataclysmic floods were the Ice Age floods that left erosional and depositional features and preceded the Missoula floods 15 18 000 ka in the Pacific Northwest of the United States Allen et al 2009 All previously studied ancient sites were visited 14 and new sites 11 were found four Missoula Flood quarries were also visited a total of 29 sites were studied in this thesis The use of calcrete paleosols to provide relative age dates for flood deposits was analyzed in this thesis Missoula Flood gravel pits were sampled in order to examine the degree of calcrete development in flood deposits of known ages All of the Missoula Flood deposits tested contain Stage 1 calcrete soil development Calcrete paleosols at sites with evidence for older floods were all analyzed Eight sites have paleosols with Stage II development 3 12% CaCO₃ Rulo Outcrop Potholes Coulee Leslie Road Bengé E Callaway Road Collier Coulee Palouse and Connell Five sites have paleosols with Stage II development 12 17% CaCO₃ Brown Road Leslie Road Bengé Reese Coulee and Connell Fourteen sites have paleosols with Stage III development 17 35% CaCO₃ The Dalles Rulo Outcrop Winans Road 1 Poplar Heights Yakima Bluffs Canal Outcrop Othello Canal Reese Coulee Potholes Coulee E Callaway Road Frenchmen Coulee Macall Ritzville and East Connell One site has a paleosol with Stage III development 35 50% CaCO₃ Othello Canal Ancient Cataclysmic flooding initiated in the Early Pleistocene at least 1 5 Ma Sixteen field sites show evidence for Early Pleistocene flooding preserved in all six provinces Othello Channels Columbia River Gorge Cheney Palouse Scabland Quincy Basin Pasco Basin and the Walla Walla Valley There are 26 field sites with evidence for Middle Pleistocene flooding present in all regions except Othello Channels Eleven of those 26 sites also show evidence for Early Pleistocene floods Evidence for Early and Middle Pleistocene floods is present over a wide distribution of elevations from 117 to 524 meters

The Missoula Flood Controversy and the Genesis Flood Michael J. Oard, 2004 One of the most spectacular floods in prehistoric times besides the Genesis Flood was the great Lake Missoula flood which left its mark in the Channeled Scabland of the Pacific Northwest in the United States However the evidence which is now considered to be overwhelming and irrefutable was the subject of intense controversy for 40 years before being accepted In this book Michael Oard discusses not only the abundant evidence which at the time was considered to be too biblical but also the circumstances surrounding the controversy Given such prejudices it is not expected that mainstream geologists will ever see evidence for the largest flood of all time the Genesis Flood Once the concept of a Lake Missoula flood was accepted geologists soon saw what they thought was evidence for anywhere from 40 to 100 floods at the peak of the last ice age However Oard shows that the evidence is strong that there was only one major flood with possibly a few minor floods A chapter is dedicated to other ice age floods including John Shaws paradigm busting subglacial flood hypotheses Evidence for the Genesis Flood is also presented consisting generally of new information from

the field of geomorphology Another chapter is devoted to a defense of the short time scale of Scripture And finally Oard demonstrates that the Lake Missoula flood also provides analogs for the catastrophic formation of mysterious geomorphological features such as water and wind gaps

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