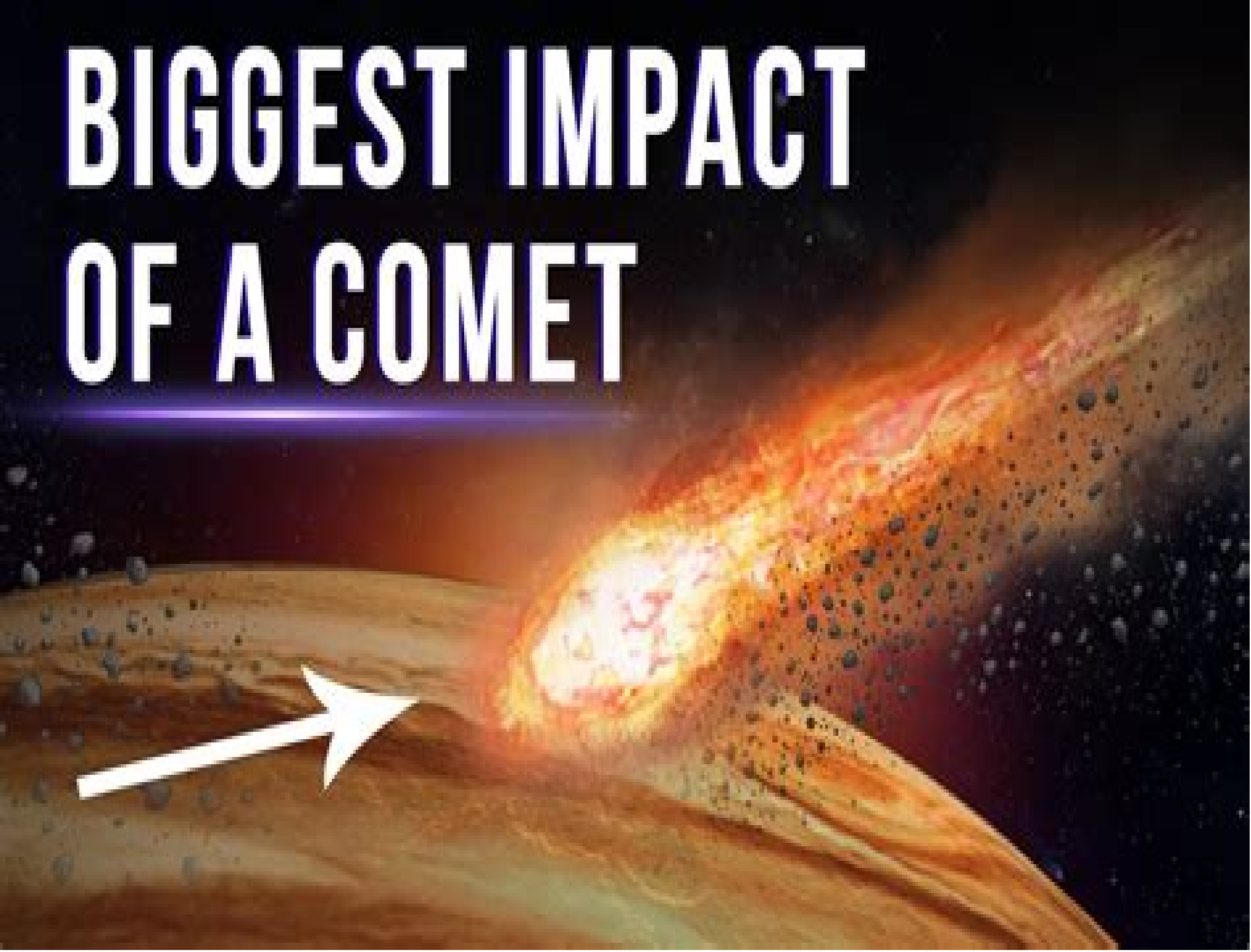


BIGGEST IMPACT OF A COMET



Great Comet Crash The Collision Of Comet Shoemaker Levy 9 And Jupiter

Dagomar Degroot



Great Comet Crash The Collision Of Comet Shoemaker Levy 9 And Jupiter:

The Great Comet Crash John R. Spencer, Jacqueline Mitton, 1995-09-29 The cosmic collision of the century in words and photographs **Shoemaker by Levy** David H. Levy, 2021-02-09 It was a lucky twist of fate when in the early 1980s David Levy a writer and amateur astronomer joined up with the famous scientist Eugene Shoemaker and his wife Carolyn to search for comets from an observation post on Palomar Mountain in Southern California Their collaboration would lead to the 1993 discovery of the most remarkable comet ever recorded Shoemaker Levy 9 with its several nuclei five tails and two sheets of debris spread out in its orbit plane A year later Levy would be by the Shoemakers side again when their comet ended its four billion year long journey through the solar system and collided with Jupiter in the most stunning astronomical display of the century Not only did this collision revolutionize our understanding of the history of the solar system but it also offered a spectacular confirmation of one scientist s life work As a close friend and colleague of Shoemaker who died in 1997 at the age of 69 Levy offers a uniquely insightful account of his life and the way it has shaped our thinking about the universe Early in his training as a geologist Shoemaker suspected that it wasn t volcanic activity but rather collisions with comets and asteroids that created most of the craters on the moon and most other bodies in the solar system Convincing the scientific community of the plausibility of impact theory and revealing its power for penetrating mysteries such as the extinction of the dinosaurs and the timing of the Earth s eventual demise became Shoemaker s mission Through conversations with Shoemaker and his family Levy reconstructs the journey that began with a young geologist s serious desire to go to the moon in the late 1940s Sent by the government to find a way to harvest plutonium Shoemaker instead found evidence in desert craters for what became his impact theory While he never became an astronaut he did become the first geologist hired by NASA and subsequently set the research agenda for the first manned lunar landing After a series of victories and setbacks for Shoemaker the collision of Shoemaker Levy 9 with Jupiter provided the most convincing proof to date of the role of impacts in our solar system Levy s explanation of the scientific reasoning that guided Shoemaker in his career up to this dramatic point as well as his personal portrait of a man who found white water rafting to be an easy way to relax sets these fascinating events in a human scale This biography shows what Shoemaker s legacy will be for our understanding of the story of the Earth well into the twenty first century **Impact Jupiter** David H. Levy, 2003-06-27 An account of the discovery of the Shoemaker Levy 9 comet and its spectacular collision with Jupiter just 6 months later written by one of the comet s discoverers **Ripples on the Cosmic Ocean** Dagomar Degroot, 2025-10-28 Changes in cosmic environments from solar storms to asteroid impacts have altered the course of history Tracing how such events shaped geopolitics and spurred scientific and cultural innovation Dagomar Degroot asks what comes next as the solar system becomes increasingly vulnerable to human activity Volcanism, Impacts, and Mass Extinctions: Causes and Effects Gerta Keller, Andrew C. Kerr, 2014-09-16 Comprises articles stemming from the March 2013 international conference at London s Natural History

Museum Researchers across geological geophysical and biological disciplines present key results from research concerning the causes of mass extinction events Planetary Sciences Imke de Pater, Jack J. Lissauer, 2001-12-06 A comprehensive coverage of this fascinating and expanding field at a level appropriate for graduate students and researchers *The Irish Astronomical Journal* ,1996 **Mercury** ,1996 *The Cambridge Guide to the Solar System* Kenneth R. Lang, 2003-09-25 The Cambridge Guide to the Solar System provides a comprehensive and up to date description of the planets and their moons Writing at an introductory level appropriate for high school and undergraduate students Professor Lang leads the reader on a fascinating journey of exploration to the worlds beyond our home planet Earth The book begins with a short introduction to the history of planetary observation and discovery The major planets and their moons are then introduced by presenting common properties processes and themes This is followed by chapters which focus on individual planets and other solar system objects including a comprehensive treatment of the various space missions from the Apollo missions to the Moon to recent missions to Jupiter and Mars Filled with vital facts and information and lavishly illustrated in colour throughout this book will also appeal to professionals as well as general readers with an interest in planetary science The Observatory ,1996 **Comets in the 21st Century** Daniel C Boice, Thomas Hockey, 2019-04-25 Have you ever seen a comet It is a marvelous experience one that all humans can share that spawns a deep yearning to understand the spectacle Have you ever wondered what comets are and why astronomers spend so much time studying them Now a comet expert and an astronomical historian have come together to produce the unique book that you now hold in your hands Using their several decades of teaching experience the authors have concisely presented the information you need to comprehend these majestic apparitions that grace our night skies No mathematical proficiency is needed in fact this book doesn't contain a single equation Comets are cosmic Rosetta stones bridging our current knowledge by digging back to the earliest days of our Solar Systems How did life arise on Earth Did comets play a significant role in bringing water and the necessary organic matter to our early Earth How about the dinosaurs Were they driven to extinction by a cometary impact 66 million years ago Comets may be both the enablers and destroyers of life on Earth as we know it These are some of the tantalizing questions discussed here If you so desire steps are given to join the ranks of amateur comet hunters Astronomy is one of the last sciences where amateurs play a significant role Your reward for discovery A comet officially bearing your name in the history books The next Great Comet is on its way we just do not know when it will arrive Armed with this book you will be ready to enjoy this unforgettable event **Collision Course!** Fred Bortz, 2014-06-30 Bortz takes readers on a whirlwind tour of the origins of the universe the impact of comets and asteroids on the history of the Earth and the Moon what we have learned from current research about these space rocks and what we might expect in the future Newly updated in 2014 to include the 2013 Chelyabinsk meteorite as well as the latest technological developments *New York Magazine* ,1994-07-25 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the

trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea The Threat and the Opportunity of Asteroids and Other Near-earth Objects United States. Congress. House. Committee on Science. Subcommittee on Space and Aeronautics,1998 *Asteroids and Dwarf Planets and How to Observe Them* Roger Dymock,2010-11-01 Dwarf planets which were formerly called asteroids except for the planet Pluto and the smaller Solar System bodies still called asteroids today are making front page news particularly those that are newly discovered and those that might present a hazard to life on Earth by impacting our planet In this age of giant telescopes and space probes these small Solar System bodies have advanced from being tiny points of light to bodies worthy of widespread study This book describes the dwarf planets and asteroids themselves their origins orbits and composition and at how amateur astronomers can play a part in their detection tracking and imaging The book is divided into two parts Part I describes physical properties including taxonomic types of dwarf planets and asteroids how they formed in the early life of the Solar System and how they evolved to their present positions groups and families It also covers the properties used to define these small Solar System bodies magnitude rotation rates described by their light curves and orbital characteristics Part II opens with a description of the hardware and software an amateur or practical astronomer needs to observe and also to image asteroids Then numerous observing techniques are covered in depth Finally there are lists of relevant amateur and professional organizations and how to submit your own observations to them *It Doesn't Take a Rocket Scientist* John Malone,2008-05-02 Did you know that the woman who discovered the largest and most complete T rex fossil on record was a high school dropout who became one of the world s greatest fossil hunters that the great British scientist Michael Faraday was the son of a blacksmith and had very little formal education that Gregor Mendel had time to study inherited traits in garden peas because he failed the test to qualify as a high school science teacher This is just a small sampling of the many surprises you ll find in this enlightening survey of the mavericks misfits and unschooled investigators who have been responsible for some of the greatest scientific discoveries in history *It Doesn't Take a Rocket Scientist* explains the achievements of each of these accomplished amateurs describes how they approached their investigations and discusses the impact of their discoveries In these amazing and inspiring stories you ll learn about Grote Reber and the birth of radio astronomy Arthur C Clarke s vision of communication satellites Joseph Priestley and the discovery of oxygen Felix d Herelle s pinpointing of bacteriophages killers of bacteria Thomas Jefferson and the science of archaeology You ll also discover which fields of science still offer great opportunities for modern amateurs eager to make a name for themselves After all it doesn't take a rocket scientist Atlas of the Galilean Satellites Paul Schenk,2010-08-05 Complete color global maps and high resolution mosaics of Jupiter s four large moons Io Europa Ganymede and Callisto are compiled for the first time in this important atlas The satellites are revealed as four visually

striking and geologically diverse planetary bodies Io's volcanic lavas and plumes and towering mountains Europa's fissured ice surface the craters fractures and polar caps of Ganymede and the giant impact basins desiccated plains and icy pinnacles of Callisto Featuring images taken from the recent Galileo mission this atlas is a comprehensive mapping reference guide for researchers It contains 65 global and regional maps nearly 250 high resolution mosaics and images taken at resolutions from 500 meters to as high as 6 meters **New Scientist and Science Journal** ,1995 *Science in the Contemporary World*

Eric G. Swedin,2005-03-08 This work is a unique introductory A Z resource detailing the scientific achievements of the contemporary world and analyzing the key scientific trends discoveries and personalities of the modern age An authoritative reference survey of the modern age of scientific discovery *Science in the Contemporary World* is a scholarly yet accessible chronicle of scientific achievement from the discovery of penicillin to the latest developments in space exploration and cloning Over 200 A Z entries cover the full spectrum of contemporary science with emphasis on its diverse nature Within the last 50 years medicine has eradicated the killer disease smallpox but primarily because the virus can live only in humans Space probes have revealed that on Europa a moon of Jupiter an ice capped ocean with the potential to support life probably exists Marvels from animal psychology and deep sea exploration are also explored extensively **New Scientist** ,1995

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