



# **Origin and Evolution of Planetary and Satellite Atmospheres**

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# Origin And Evolution Of Planetary And Satellite Atmospheres

**David C. Catling, James F. Kasting**



## **Origin And Evolution Of Planetary And Satellite Atmospheres:**

**Origin and Evolution of Planetary and Satellite Atmospheres** S. K. Atreya, James B. Pollack, Mildred Shapley Matthews, 1989 An integrated discussion of the similarities and differences between the atmospheres of various bodies of the solar system including the Earth      **Planetary Sciences** Imke de Pater, Jack J. Lissauer, 2015-01-29 This updated second edition takes in the latest measurements An authoritative introduction for graduate students in the physical sciences      *A Bibliography of Planetary Geology and Geophysics Principal Investigators and Their Associates, 1989-1990* United States. Office of Space Science and Applications, 1990 Selected data specifically relating to recent publications submitted by principle investigators and their associates      **Planetary and Interstellar Processes Relevant to the Origins of Life** D.C.B. Whittet, 2013-03-14 These are exciting times for exobiology The ubiquity of organic molecules in interstellar clouds comets and asteroids strongly supports a cosmic perspective on the origin of life Data from both ground based telescopes and the recently launched Infrared Space Observatory are providing new insight into the complexity of carbon based chemistry beyond the Earth Meteorites give us solid evidence for extraterrestrial amino acids and putative fossil evidence for life in a 3 6 billion year old Martian meteorite hints that life in our system might not be the sole prerogative of the Earth Giant planets have now been discovered orbiting other stars and although such planets seem unlikely to be habitable themselves their existence strongly suggests what many astronomers have long believed that planetary systems are commonplace All these topics are reviewed in this volume by active researchers The level is appropriate for graduate students in astronomy biology chemistry earth sciences physics and related disciplines It will also provide a valuable source of reference for active researchers in these fields      **The Early Evolution of the Atmospheres of Terrestrial Planets** J.M. Trigo-Rodriguez, François Raulin, Christian Muller, Conor Nixon, 2013-05-29 The Early Evolution of the Atmospheres of Terrestrial Planets presents the main processes participating in the atmospheric evolution of terrestrial planets A group of experts in the different fields provide an update of our current knowledge on this topic Several papers in this book discuss the key role of nitrogen in the atmospheric evolution of terrestrial planets The earliest setting and evolution of planetary atmospheres of terrestrial planets is directly associated with accretion chemical differentiation outgassing stochastic impacts and extremely high energy fluxes from their host stars This book provides an overview of the present knowledge of the initial atmospheric composition of the terrestrial planets Additionally it includes some papers about the current exoplanet discoveries and provides additional clues to our understanding of Earth s transition from a hot accretionary phase into a habitable world All papers included were reviewed by experts in their respective fields We are living in an epoch of important exoplanet discoveries but current properties of these exoplanets do not match our scientific predictions using standard terrestrial planet models This book deals with the main physio chemical signatures and processes that could be useful to better understand the formation of rocky planets      **Literature 1989, Part 1** Astronomisches Rechen-Institut, 2013-11-11

From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Review Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes

The Observatory Magazine     Europa Robert T. Pappalardo, William B. McKinnon, Krishan Khurana, 2017-12-15 Few worlds are as tantalizing and enigmatic as Europa whose complex icy surface intimates the presence of an ocean below Europa beckons for our understanding and future exploration enticing us with the possibilities of a water rich environment and the potential for life beyond Earth This volume in the Space Science Series with more than 80 contributing authors reveals the discovery and current understanding of Europa's icy shell subsurface ocean presumably active interior and myriad inherent interactions within the Jupiter environment Europa is the foundation upon which the coming decades of scientific advancement and exploration of this world will be built making it indispensable for researchers students and all who hold a passion for exploration

**Atmospheric Evolution on Inhabited and Lifeless Worlds** David C. Catling, James F. Kasting, 2017-04-13 As the search for Earth like exoplanets gathers pace in order to understand them we need comprehensive theories for how planetary atmospheres form and evolve Written by two well known planetary scientists this text explains the physical and chemical principles of atmospheric evolution and planetary atmospheres in the context of how atmospheric composition and climate determine a planet's habitability The authors survey our current understanding of the atmospheric evolution and climate on Earth on other rocky planets within our Solar System and on planets far beyond Incorporating a rigorous mathematical treatment they cover the concepts and equations governing a range of topics including atmospheric chemistry thermodynamics radiative transfer and atmospheric dynamics and provide an integrated view of planetary atmospheres and their evolution This interdisciplinary text is an invaluable one stop resource for graduate level students and researchers working across the fields of atmospheric science geochemistry planetary science astrobiology and astronomy

*From Dust to Terrestrial Planets* Willy Benz, R. Kallenbach, Günter Lugmair, 2012-12-06 The workshop From Dust to Terrestrial Planets was initiated by a working group of planetary scientists invited to ISSI by Johannes Geiss in November 1997 The group split to focus on three topics one of which was the history of the early solar system including the

formation of the terrestrial planets in the inner solar system Willy Benz Gunter Lugmair and Frank Podosek were invited to convene planetary scientists astrophysicists and cosmochemists to synthesize the current knowledge on the origin and evolution of our inner planetary system The convenors raised the interest of scientists from all over the world in the detailed assessment of the available astronomical chronological geochemical and dynamical constraints of the first period of inner solar system evolution In particular this included appraisal of the newest results from astronomical observations by the Hubble Space Telescope the Infrared Space Observatory and other space and ground based facilities of solar like systems and nebular disks possibly representing early stages of the solar accretion disk and planet formation At the same time the current models of the origin evolution transport and accretion processes of circum stellar disks were presented This included the new insights provided by the recent discovery of extrasolar giant planets which were considered insofar as they are relevant to the overall dynamics of the inner part of the solar system

*Solar System Ices* B. Schmitt, C. de Bergh, M. Festou, 2012-12-06 Predicted long ago to be present on the surface of planetary bodies by theoreticians and recently shown by interplanetary spacecraft and ground based instruments to be ubiquitous in the Solar System ices in a broad sense have become an extremely important subject in planetary research Ices found on objects formed in the remote parts of the Solar System contain a message about the composition and mode of formation of our planetary system There are also objects that contain icy materials that bear signatures of past events on a geological timescale Their study is one of the best means of inquiring about the origins accessing the past and anticipating the future of our Solar System The reviews in this book collect together a series of papers covering the physics and chemistry of ices as well as the geology of icy surfaces They present an extensive summary of their chemical and physical properties relevant to planetary astronomy They also provide an overview of planetary bodies that contain ices and the outstanding problems of the field Audience The book is intended to become a reference for researchers and graduate students It is accessible to senior graduate students with a background in planetary science

The Chemistry of Life's Origins J. Mayo Greenberg, C.X. Mendoza-Gómez, Valerio Pirronello, 2012-12-06 This volume contains the lectures presented at the second course of the International School of Space Chemistry held in Erice Sicily from October 20-30 1991 at the E Majorana Centre for Scientific Culture The course was attended by 58 participants from 13 countries The Chemistry of Life's Origins is well recognized as one of the most critical subjects of modern chemistry Much progress has been made since the amazingly perceptive contributions by Oparin some 70 years ago when he first outlined a possible series of steps starting from simple molecules to basic building blocks and ultimate assembly into simple organisms capable of replicating catalysis and evolution to higher organisms The pioneering experiments of Stanley Miller demonstrated already forty years ago how easy it could have been to form the amino acids which are critical to living organisms However we have since learned and are still learning a great deal more about the primitive conditions on earth which has led us to a rethinking of where and how the condition for prebiotic chemical processes occurred We have also

learned a great deal more about the molecular basis for life For instance the existence of DNA was just discovered forty years ago

**Countdown to Kyoto, Parts I-III** United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment,1998 *Literature 1988, Part 1* U. Esser,H. Hefele,Inge Heinrich,W. Hofmann,D. Krahn,V. R. Matas,Dr. Lutz D. Schmadel,G. Zech,2013-11-11 From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world Space Science Reviews 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine 2

**Titan: The Earth-like Moon** Athena Coustenis,Fredric William Taylor,1999-10-27 This is the first book to deal with Titan one of the most mysterious bodies in the solar system The largest satellite of the giant planet Saturn Titan is itself larger than the planet Mercury and is unique in being the only known moon with a thick atmosphere In addition its atmosphere bears a startling resemblance to the Earth s but is much colder The American and European space agencies NASA and ESA have recently combined efforts to send a huge robot spacecraft to orbit Saturn and land on Titan This book provides the background to this the greatest deep space venture of our time and sets the scene for what may be found when the spacecraft arrives in 2004

Neptune and Triton Dale P. Cruikshank,Mildred Shapley Matthews,A. M. Schumann,1995-11 The first reconnaissance of all the major planets of the Solar System culminated in the Voyager 2 encounter with Neptune in August 1989 Neptune itself was revealed as a planet with gigantic active storms in its atmosphere and off center magnetic field and a system of tenuous lumpy rings Whereas only two satellites were known prior to the encounter Voyager discovered six more Triton the largest satellite was revealed as a frozen icy world with clouds and layers of haze and with vertical plumes of particles reaching five miles into the thin atmosphere This latest Space Science Series volume presents the current level of understanding of Neptune its riings and its satellites derived from the data received from the Voyager The book s chapters are written by the world s leading authorities on various aspects of the Neptune system and are based on papers presented at an international conference held in January 1992 Covering details of Neptune s interior atmosphere rings magnetic fields and near space environment as well as the small satellites and the remarkable moon Triton this volume is a unique resource for planetary scientists and astronomers

requiring a comprehensive analysis of Neptune viewed in the context of our knowledge of the other giant planets Until another spacecraft is sent to Neptune Neptune and Triton will stand as the basic reference on the planet     Workshop on the Origins of Solar Systems Joseph A. Nuth,1988 Topics addressed include interstellar chemistry and primitive bodies astronomical measurements and nebula models solar nebula models and meteorite and planetary accumulation and evolution     *NASA Technical Memorandum* ,1990     Saturn in the 21st Century Kevin H. Baines,F. Michael Flasar,Norbert Krupp,Tom Stallard,2019 A detailed overview of Saturn s formation evolution and structure written by eminent planetary scientists involved in the Cassini Orbiter mission     **Circumstellar Dust Disks and Planet Formation** Roger Ferlet,Alfred Vidal-Madjar,1994     **Io After Galileo** Rosaly M.C. Lopes,John R. Spencer,2007-06-20 Written by experts in the field many of whom took part in the Galileo mission the book reviews the basics about Io and its unique space environment Coverage includes all subjects where the Galilio mission has shed new light on with some emphasis on Io s most remarkable characteristics its active volcanism Written primarily for planetary scientists this book will also benefit volcanologists in general and newcomers wishing to specialize in this field of research

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