



# Lunar Wake

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## Lunar Wake:

**Magnetotails in the Solar System** Andreas Keiling, Caitríona Jackman, Peter Delamere, 2015-02-02 All magnetized planets in our solar system Mercury Earth Jupiter Saturn Uranus and Neptune interact strongly with the solar wind and possess well developed magnetotails It is not only the strongly magnetized planets that have magnetotails Mars and Venus have no global intrinsic magnetic field yet they possess induced magnetotails Comets have magnetotails that are formed by the draping of the interplanetary magnetic field In the case of planetary satellites moons the magnetotail refers to the wake region behind the satellite in the flow of either the solar wind or the magnetosphere of its parent planet The largest magnetotail of all in our solar system is the heliotail the magnetotail of the heliosphere The variety of solar wind conditions planetary rotation rates ionospheric conductivity and physical dimensions provide an outstanding opportunity to extend our understanding of the influence of these factors on magnetotail processes and structures Volume highlights include

Discussion on why a magnetotail is a fundamental problem of magnetospheric physics Unique collection of tutorials on a large range of magnetotails in our solar system In depth reviews comparing magnetotail processes at Earth with other magnetotail structures found throughout the heliosphere Collectively Magnetotails in the Solar System brings together for the first time in one book a collection of tutorials and current developments addressing different types of magnetotails As a result this book should appeal to a broad community of space scientists and it should also be of interest to astronomers who are looking at tail like structures beyond our solar system

**Interactions of Earth's Magnetotail Plasma with the Surface, Plasma, and Magnetic Anomalies of the Moon** Yuki Harada, 2014-08-18 This thesis describes the essential features of Moon plasma interactions with a particular emphasis on the Earth's magnetotail plasma regime from both observational and theoretical standpoints The Moon lacks a dense atmosphere as well as a strong intrinsic magnetic field As a result its interactions with the ambient plasma are drastically different from solar wind interactions with magnetized planets such as Earth The Moon encounters a wide range of plasma regime from the relatively dense cold supersonic solar wind plasma to the low density hot subsonic plasma in the geomagnetic tail In this book the author presents a series of new observations from recent lunar missions i e Kaguya ARTEMIS and Chandrayaan 1 demonstrating the importance of the electron gyro scale dynamics plasma of lunar origin and hot plasma interactions with lunar magnetic anomalies The similarity and difference between the Moon plasma interactions in the geomagnetic tail and those in the solar wind are discussed throughout the thesis The basic knowledge presented in this book can be applied to plasma interactions with airless bodies throughout the solar system and beyond

*The Lunar Wake at Large Distances* F. C. Michel, Air Force Cambridge Research Laboratories (U.S.), 1968\* *Dependence of the Lunar Wake on Solar Wind Plasma Characteristics* K. W. Ogilvie, Norman F. Ness, Goddard Space Flight Center, 1969 *Solar-terrestrial Physics* Syun-Ichi Akasofu, Sydney Chapman, 1972 *Annales Geophysicae*, 2008 **Rarefied Gas Dynamics**, 1969 **U.S. Government Research & Development Reports**, 1967

Chronique de l'U.G.G.I. International Union of Geodesy and Geophysics,1975    **NASA SP.** ,1978    *Izvestiya, Academy of Sciences, USSR.* ,1973    **Proceedings** ,1971    **Particle-in-cell Simulations of the Lunar Wake** Paul Colin Birch,2001    IBZ ,1970    Space Plasma Physics COSPAR. Plenary Meeting,1993 The papers in this volume emanate from three sessions on Active Experiments in Space Topics covered include wave injections from space vehicles and ground transmitters electron and ion beams and chemical releases from satellites and rockets    *International Aerospace Abstracts* ,1976    *Proceedings of Open Meetings of Working Groups on Physical Sciences of the Seventeenth Plenary Meeting of COSPAR* COSPAR.,1975    **United States Space Science Program** National Research Council (U.S.). Space Science Board,1968    United States Space Science Program ,1968    **Geophysical Abstracts ...** Geological Survey (U.S.),1969

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### **Lunar Wake Introduction**

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