

The Sun and the Heliosphere as an Integrated System. 429 pages. 9789401570794.

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This book, for the first time, ties together physical processes across the full scale of the heliosphere. It is about the natural connections that exist between various parts of the system. Therefore, it is mainly cast in terms of those mechanisms and phenomena rather than individual missions in space. However, to give credit, this has only been possible because of the existence of a fleet of deep space missions such as Ulysses, SOHO, and the Voyagers. It is only with them working in concert that a real understanding of the physics can be, and has been achieved. There are fourteen chapters in This book, for the first time, ties together physical processes across the full scale of the heliosphere. It is about the natural connections that exist between the various parts of the system. Therefore, it is mainly cast in terms of those mechanisms and phenomena rather than individual missions in space. However, to give credit, this has only been possible because of the existence of a fleet of deep space missions such as Ulysses, SOHO, and the Voyagers. It is only with them working in concert that a real understanding of the physics can be, and has been achieved. There are fourteen chapters Heliosphere 2 Anatomy of the Sun 4. Solar Cycle 6 Solar Storms 8 Earth's Magnetosphere 10 Earth's Upper Atmosphere 14 Space Weather 16. Credits 18. Prologue and Introduction. Now in the early 21st century, we know that the Sun is a star, composed mostly of hydrogen, at the center of the Solar System, and with planets orbiting around it. But ancient people didn't have access to the same tools we have today. Their understanding about the Sun was far more concerned with the day-to-day needs of living. As such, their notions have influenced the way we (still) think of the Sun. Almost all life on E