

1. Record Nr.	UNINA9910254641203321
Autore	Stevenson David S
Titolo	The Exo-Weather Report : Exploring Diverse Atmospheric Phenomena Around the Universe // by David S. Stevenson
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-25679-3
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (466 p.)
Collana	Astronomers' Universe, , 1614-659X
Disciplina	500
Soggetti	Astronomy Climatology Space sciences Planetology Popular Science in Astronomy Space Sciences (including Extraterrestrial Physics, Space Exploration and Astronautics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Part I Learning by Observing our World -- Introducing Earthly Meteorology -- Tales of Mass Destruction -- Part II -- Other Worlds in the Solar System -- Venus -- The Wispy Weather of Mars -- The King of Planets -- The Ring World -- Uranus -- Neptune, Pluto and the Kuiper Belt -- Part III -- Beyond our Solar Realms -- Tales of Other Worlds -- Stellar Weather -- Storm Fronts in Galaxy Clusters -- Glossary -- Bibliography.
Sommario/riassunto	David Stevenson's new book links the meteorology of the Earth to that of other planets, stars, and clusters of galaxies, showing the similarities and differences between terrestrial weather and that of weather on other worlds. Because Earth is not unique in having weather, there is much to learn from other planets with atmospheres that show the movement of energy from hotter to colder areas. The weather seen on Earth and other known planetary systems are examined to elaborate the connection between climate and the development of life. The weather on Earth and other Solar System

planets is a manifestation of the huge energy budget imparted by our star, the Sun, but weather doesn't stop at the shores of our Solar System. The author brings together the latest information from satellites and probes, such as Cassini and Hubble, to show its larger place in the astronomical picture. Inferences are drawn about the weather and climate of a large number of other planetary systems that lie far from our own. Additionally, the author expands our understanding of what exactly weather is comprised of by exploring the kind of "weather" experienced on the largest observable scales in the universe.
