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Earth's Magnetosphere: Formed by the Low-Latitude Boundary Layer - Kindle edition by W. J. Heikkila. Download it once and read it on your Kindle device, PC, phones or tablets. Use features like bookmarks, note taking and highlighting while reading Earth's Magnetosphere: Formed by the Low-Latitude Boundary Layer.

Earth's Magnetosphere: Formed by the Low-Latitude Boundary

1.. IntroductionThe physical nature of low latitude boundary layer (LLBL), the inner region of the magnetopause at low latitudes where the magnetosheath-like and plasma sheet-like plasmas coexist is of great interest since it could control the rate of mass, momentum, and energy transfer between the magnetosheath and the magnetosphere.

Formation and characteristics of low latitude boundary

The tropics are a region of the Earth surrounding the Equator. They are delimited in latitude by the Tropic of Cancer in the Northern Hemisphere at $23^{\circ}26'12.7''$ (or 23.43685°) N and the Tropic of Capricorn in the Southern Hemisphere at $23^{\circ}26'12.7''$ (or 23.43685°) S; these latitudes correspond to the axial tilt of the Earth.

Tropics - Wikipedia

During the extremely quiet solar wind conditions in 2009 (the low SW density and low IMF), the outer radiation belt high-latitude boundary location depends mainly on the internal Earth's magnetic field and on quiet magnetospheric currents.

Mathematical Model of the UT Position of High-latitude

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Earth's magnetosphere : created by the low latitude

Latitude Name What It Measures Minimum Value Maximum Value Appearance. P.S./E. Sci. Jan. 2006 [2] ... plate boundary Relative motion at plate boundary Mantle hot spot Divergent plate boundary ... fewer hours of daylight and receives low-angle insolation (2) fewer hours of daylight and receives high-angle insolation ...

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Earth's Magnetosphere: Formed by the Low-Latitude Boundary

A Study of the Low-Latitude Boundary Layer . DuÅĵk, J. Å afrÅĵnkovÅĵ, Z. NÄ›meÅ•ek, and L. PÅ™ech
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A Study of the Low-Latitude Boundary Layer

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Earth's Magnetosphere: Formed by the Low-Latitude Boundary

Abstract. We describe a method for determining the thickness of the low-latitude boundary layer (LLBL) of the Earth's magnetosphere at the dayside near the equatorial plane based on the data gathered by a single satellite that traverses the layer and measures the plasma velocity.

Determining the thickness of the low-latitude boundary

Atmospheric Boundary Layer The lowest part of the troposphere , closest to Earth's surface, is called the "boundary layer" (or planetary boundary layer or atmospheric boundary layer). Near the surface, the texture of the ground has a strong influence on the movement of winds .

Atmospheric Boundary Layer - Windows to the Universe

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The lowlatitude boundary layer (LLBL) is a low latitude Earth's magnetosphere region that borders upon the magnetopause and contains both the magnetospheric and magnetosheath plasma. The plasma density, temperature, and velocity values in the LLBL

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