

# The mechanism of typhoon generated in the earth that rotates in the space where the solar wind blows

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The atmosphere in the upper tropical cyclone (TC) rotates the clock-wise direction by the trade winds and westerlies. The rotation speed near the center increases, because the angular momentum of the atmospheric molecule is transported. The eye of the typhoon is appeared at the place where the centrifugal force of the rotation on the flow exceeds compared with the difference of the pressure. The atmosphere including the vapor of water in the cumulonimbus are mixed with the cold air flow swirling in the clockwise direction at the eye of typhoon, where the water vapors become to the rain, and the cumulonimbus rotates in anticlockwise direction.

The solar wind includes rotational momentum and the rotational momentum of the solar wind generates the trade winds. On the other hand, the westerlies are caused by the solar wind that rotates the tail of Earth's magnetosphere on the opposite side of the Sun in anticlockwise rotation, and it gives the driving force of the westerlies. Ref. S. Karasawa.

<https://www.youtube.com/watch?v=bzCup63G8z8&feature=youtu.be>

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