

ACCESSIBILITY

12TH DEC, 2020

SOLAR FLARES CAUSED HUMAN HEALTH ISSUES

INCLUSIVE DEVELOPMENT

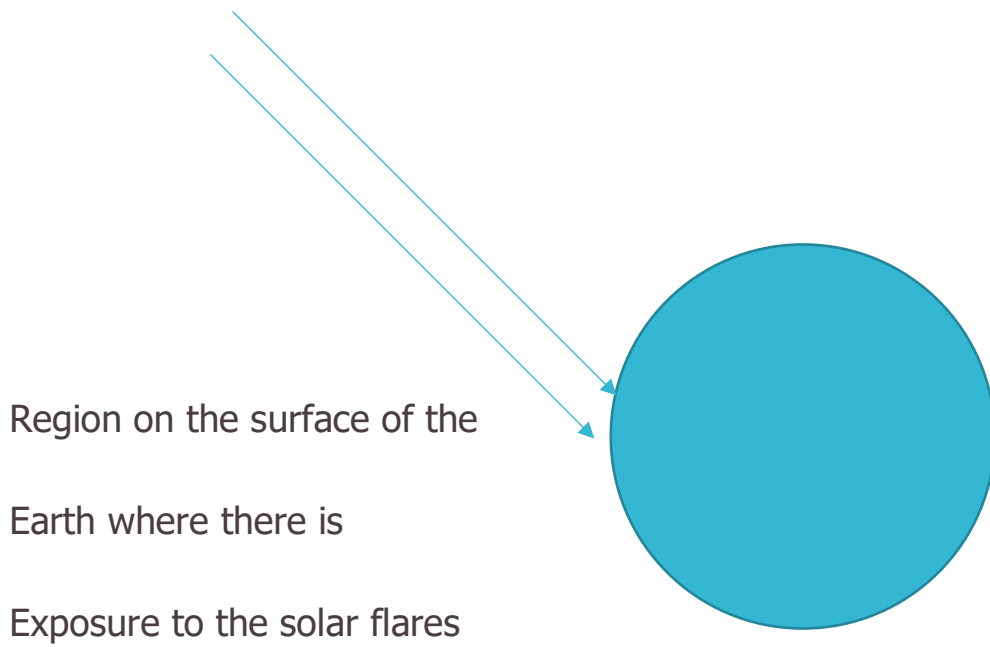
MATHEMATICS

Solar flares is an eruption of cosmic particles from the surface of the sun. These energetic particles travel outwards to the planet Mercury, then Venus and so on till the planet Neptune. Then it further travels beyond the solar system to the heliopause.

At the heliopause, the energy of the solar flares balances with the interstellar medium and thus it ends it's journey as the solar flares.

When the solar flares reaches the planet Earth, a portion of the region of the Earth is exposed to this solar flares.

This portion is a certain angular section of the circumference of the Earth.



$$\begin{aligned}\cos(\theta) &= \text{distance of the solar flares} / \text{radius of the Earth} \\ &= d / r\end{aligned}$$

Thus,

The distance or the portion of the exposure of the Earth to the solar flares

$$d = r * \cos(\theta)$$

Relative exposure of the Earth to the solar flares

$$= \text{Distance of exposure} / \text{Circumference of the Earth}$$

$$= d / (2 * \pi * r)$$

$$= \{1 / (2 * \pi)\} * \cos(\theta)$$

Thus, the exposure relativity of the Earth to the solar flares = the portion of the Earth where persons are located and their exposure to the solar flares

$$= \{1 / (2 * \pi)\} * \cos(\theta)$$

Impact of solar flares on the health of the human beings = x% of the total functionality of the human health system

$$= x\% \text{ of the total functionality of the human health system}$$

$$= (x / 100) * \text{health}$$

$$= x * (\text{health}) / 100$$

= Impact of the solar flares on one human being

Total population in that solar flares exposure region = population

Thus, the total impact on the humans located on that solar flares exposure region

= $x * \text{health} * \text{population} / 100$

= Impact of solar flares on the human beings in that region

= Value of accessibility products which are required to reach the human population located in the solar flares exposure region

“Comparison derivative of the exposure relativity of the solar flares and it’s impact on the health of the human beings located in the solar flares region”

= Relative exposure of the solar flares to the persons on the Earth / Value of accessibility products that is required by the human population located in the solar flares exposure region

Accessibility and inclusive development creates information and communication technologies based product solutions. Persons with disabilities require assistive devices for certain causes. These causes could be visual impairment, hearing impairment or cognitive development health issues.

Visual impairment could be assisted with product solutions which are audio – enabled.

Hearing impairment could be assisted with product solutions which are video – enabled.

Cognitive development health issues are assisted with artificial intelligence based product solutions.