

The Earth's Magnetosphere

https://www.nasa.gov/mission_pages/sunearth/multimedia/magnetosphere.html

One of the most common questions about EMR is the possibility of harm to humans (many students will ask about the damage cell phone radiation can do, or whether it can cause cancers. This area has been extensively studied (article from ARRL).

In fact, radio operators are limited in the recommended exposure, and modern day suggestions suggest using the lowest power needed to operate. For that reason (and because QRP radios are usually lighter to carry into the field), low-power operations are a popular mode of operation.

<https://www.arrl.org/rf-radiation-and-electromagnetic-field-safety>

Fascinating article on EMR and radio waves, and how their properties differ from other types of waves.

<https://www.drbakstmagnetics.com/do-radio-waves-bend-in-a-magnetic-field/>

The physics of radio

<https://wndw.net/pdf/wndw2-en/ch02-physics.pdf>

Radio use in satellite phones

<https://www.voipmechanic.com/satellite-phone.htm#:~:text=How%20a%20satellite%20phone%20works.%20Satellite%20phones%20send,which%20has%20a%20connection%20to%20an%20Earth%20station.>

Foundation of Radio for Scientists and Technologists, Christopher John Coleman -

<https://physicstoday.scitation.org/doi/full/10.1063/PT.3.4206>

Free Space Path Loss

<https://www.electronicdesign.com/technologies/wireless/article/21802810/wireless-101-basic-physics-of-radio>

https://www.amazon.com/rejopfad-Computer-Protection-Anti-Tracking-Assurance/dp/B0BJW39GF9/ref=sr_1_6?crd=2AU033NGJ1GEF&keywords=emp+protection&qid=1672421822&srefix=emp+p%2Caps%2C216&sr=8-6

EMP Bags

https://www.amazon.com/rejopfad-Computer-Protection-Anti-Tracking-Assurance/dp/B0BJW39GF9/ref=sr_1_6?crd=2AU033NGJ1GEF&keywords=emp+protection&qid=1672421822&srefix=emp+p%2Caps%2C216&sr=8-6