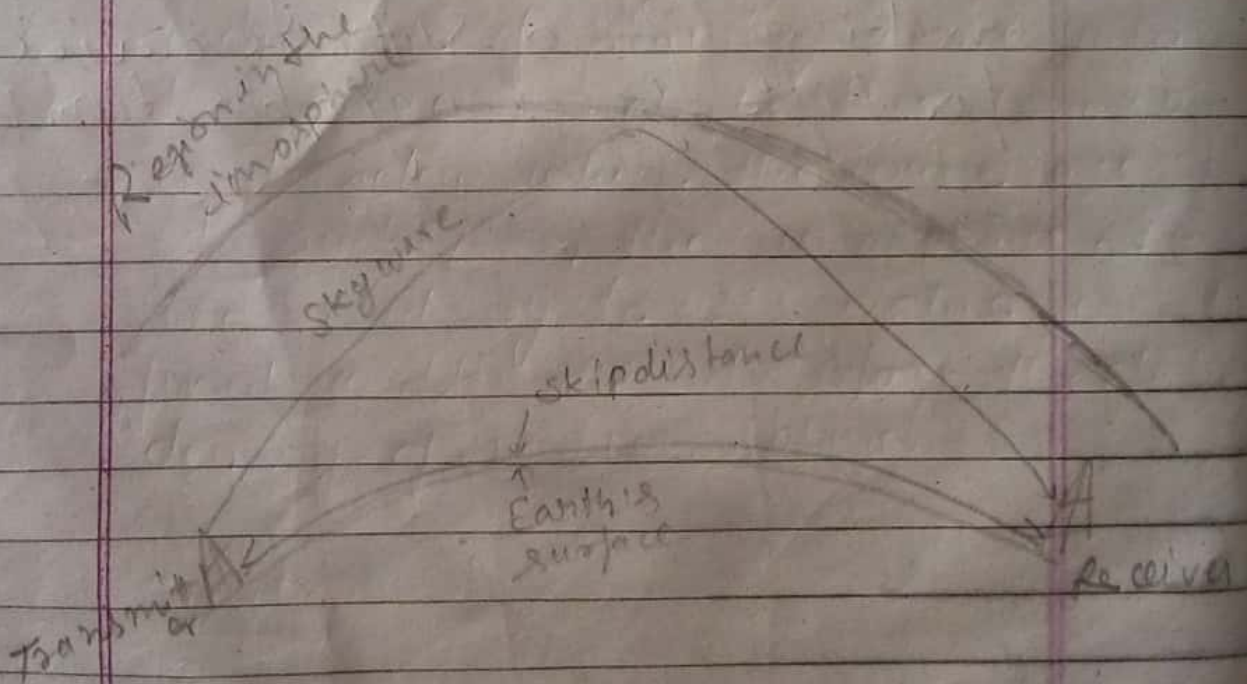


Skip distance : →

A skip distance is the distance a radio wave travels, usually including a hop in the ionosphere. A skip distance is a distance on the earth's surface b/w the two points where radio waves from a transmitter, reflected downwards by different layers of the ionosphere fall. It also represents how far a radio wave has travelled per hop on the earth's surface, for radio waves such as the short wave radio signals that employ continuous reflections for transmission.





## Propagation path →

Radio waves from a particular transmitting antenna do not all get refracted by a particular layer of the ionosphere. Some are absorbed, some refracted while a portion escapes to the next layer. At this higher layer there is a possibility of this radio wave being bent downwards to earth again. This bending happens because each layer of the ionosphere has a refractive index that varies from that of the others. Because of the differing heights of ~~the~~ refraction, or apparent reflection the radio wave hit the earth surface at different points hence generating the skip distance. Skip distance is greatest during the night when the ionosphere is the highest.