

# Effects Of Ionospheric Scattering On Very-Long-Distance Radio Communication By H.A. Whale

By H.A. Whale

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CONSERT is able to measure the distance any signature of volume or surface scattering effects in the signal form If scattering were present, a long  
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### **A ray-tracing model to account for off great -**

to account for off great circle HF propagation over northerly paths. Whale, H. A. (1969), Effects of Ionospheric Scattering on Very-Long-Distance Radio  
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<http://www.bing.com/knows/radio%20propagation?mkt=zh-cn>

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Two-dimensional transverse magnetic scattering the effects of various large-scale ionospheric Very-Long-Distance Radio Communication  
<http://onlinelibrary.wiley.com/doi/10.1029/2006RS003557/citedby>

### **Ionosphere - Wikipedia, the free encyclopedia -**

6.1 Radio communication. the constructive interference of scattering from ionospheric density of radio propagation of very long radio waves in the ionosphere.  
<http://en.wikipedia.org/wiki/Ionosphere>

### **Human Exploration Framework Team -**

sustainable way.1 2 The specific goal is to generate an initial architecture that can evolve into a long very low frequency radio effects of Galactic  
<http://library.vu.edu.pk/cgi-bin/nph-proxy.cgi/000100A/http/dl.acm.org/citation.cfm=3fid=3d2053918.2054374&coll=3dDL&dl=3dGUIDE>

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Effects of ionospheric high-order dispersion and multiple scattering on space-based SAR imaging

<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6624320>

**Effects of multiple scatter on the propagation -**

Effects of multiple scatter on the propagation and absorption multiple scattering effects in Sect. 3 below, due to ionospheric heating effects, Radio Sci.,

<http://www.ann-geophys.net/20/41/2002/angeo-20-41-2002.pdf>

**Ionosphere | Article about ionosphere by The Free -**

Such activity makes possible long-distance wireless communication. the existence and effects of the ionosphere); ionospheric propagation; Ionospheric Radio

<http://encyclopedia2.thefreedictionary.com/ionosphere>

**A Newly Discovered Mode of Radio Propagation - -**

cally propagated signals are normally used for long- distance radio communication. tor Very H Frequency Radio Discovered Mode of Radio

<http://www.jstor.org/stable/3823550>

**P. E. Krasnushkin and N. A. Yablochkin, Theory of -**

Theory of Very Long Wave SPECTRAL ANALYSIS OF INCOHERENT SCATTERING of a radar probe signal scattered from the ionospheric

[http://link.springer.com/content/pdf/10.1007%2F978-3-642-01892-9\\_2.pdf](http://link.springer.com/content/pdf/10.1007%2F978-3-642-01892-9_2.pdf)

**The effects of ionospheric irregularities and the -**

The nature of the observed variations in the received bearing of the signals from short-wave radio Long-distance transmissions H. A. WHALE: Ionospheric and

<http://www.sciencedirect.com/science/article/pii/0021916959901187>

**Journal of Research Volume 67D - National -**

Sep 19, 2012 Journal of Research of National Bureau of Standards, Section D: Effects of radio wave Ionospheric scattering effects in long-distance

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Ionospheric Irregularities and Long-Distance Radio transmission by tropospheric scattering using very narrow H . A., The effects of ionospheric irregularities [http://nvlpubs.nist.gov/nistpubs/jres/66D/jresv66Dn3p265\\_A1b.pdf](http://nvlpubs.nist.gov/nistpubs/jres/66D/jresv66Dn3p265_A1b.pdf)

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**The Scattering of Radio Waves - Institute of -**

data from long distance beamed on the actual mechanism of scattering, on ionospheric absorption and on the SCATTERING AND RADIO COMMUNICATION (i) <http://iopscience.iop.org/0370-1301/64/2/307/pdf/prbv64i2p142.pdf>

**Radio propagation - SlideShare -**

Aug 18, 2014 Factors influencing ionospheric radio 6 Lightning scattering o 2.5 Other effects 2.5 ionospheric layer for long-distance, <http://www.slideshare.net/muhammadhkhan73/radio-propagation-38155786>

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Genre/Form: Electronic books: Additional Physical Format: Print version: Whale, H.A., 1921-Effects of ionospheric scattering on very-long-distance radio communication. <http://www.worldcat.org/title/effects-of-ionospheric-scattering-on-very-long-distance-radio-communication/oclc/602391898>

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**Radio propagation - Wikipedia, the free -**

Understanding the effects of varying conditions Ionospheric radio propagation has a strong but rain scatter propagation can be a nuisance causing [http://en.wikipedia.org/wiki/Radio\\_propagation](http://en.wikipedia.org/wiki/Radio_propagation)

### **Effect of a Power Law Particle Flux on the -**

Effect of a Power Law Particle Flux on the Ionospheric Incoherent Scattering Cross Section 285 t vs VII Fig. 1. Region of integration.  $w_1 = m$ ,

[http://iopscience.iop.org/1402-4896/33/3/017/pdf/physscr\\_33\\_3\\_017.pdf](http://iopscience.iop.org/1402-4896/33/3/017/pdf/physscr_33_3_017.pdf)

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### **Multiple scattering effects in ionospheric radio -**

( , , , ) is the differential scattering cross section; and  $C(z, , )$  is the cosine of the inclination angle to the z axis of a ray path

<http://onlinelibrary.wiley.com/doi/10.1029/2003RS002953/full>

### **Magnetospheric Radio Sounding on the IMAGE Mission -**

Most RPI soundings will be taken near apogee at a geocentric distance of 8 R E communication and the ground using ionospheric radio

[http://image.gsfc.nasa.gov/publication/document/1998\\_benson\\_etal/](http://image.gsfc.nasa.gov/publication/document/1998_benson_etal/)

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on the size of rhombic aerials for high-frequency communication. H.A. Whale . (1969) , Effects of ionospheric scattering on very long distance radio

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source) and to study the radio brightness distribution of an extended cosmic source under conditions of both quiet and disturbed ionosphere. 4. CONCLUSION

<http://link.springer.com/content/pdf/10.1023%2FA%3A1017956315657.pdf>

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polarization, and scattering. Radio propagation Ionospheric radio propagation F2-layer is the most important ionospheric layer for long-distance,

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**Near-field statistics for the field diffracted by -**

plane wave diffracted by a thin one-dimensional on Very. Long-Distance Radio Communication, Effects of Ionospheric Scattering on Very-Long

<http://www.sciencedirect.com/science/article/pii/0021916974900129>

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JOURNAL OF RESEARCH of the National Bureau of Standards- D. Radio Propagation Vol. 67D, No.3, May-June 1963 Ionospheric Scattering Effects in Long-Distance

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**Influence of directional fluctuations on the gain -**

high frequency communication; H.A. Whale . (1969) , Effects of ionospheric scattering on very long distance radio communication.

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