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MLR events and associated triggered emissions observed by DEMETER

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This paper gives an overview of different sets of Magnetospheric Line Radiation (MLR) observed by the satellite DEMETER. By comparison with past observations one can say that some MLR events are due to man made Power Line Harmonic Radiation (PLHR) which may suffer a non linear gyro resonant interaction at the magnetic equator. It is also shown that periodic emissions are very often associated with the MLR. In this case the origin of these waves is natural. The lines are produced by the periodicity and the frequency band limits of the individual elements which causes the appearance of lines on the spectrograms. Finally the paper shows that MLR can trigger emissions.