

Ultra Long Range Aircraft Operations and Space Weather

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The advent of ultra long range modern jet aircraft brings into focus issues concerning cosmic and solar radiation exposure to aircrew and passengers alike. Recent development of computer models to help predict these levels of exposure have gone some way to allow aircraft operators to meet various state requirements for monitoring aircrew and passengers. These models do not allow for solar particle events and the longer duration flights proposed in the coming years will increase time at altitude and hence the levels of exposure during such events. This paper considers the issues involved during such events.

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