

الآية

قال تعالى:

(وَسَخَّرَ لَكُمُ الشَّمْسَ وَالْقَمَرَ دَائِبِينَ ۖ وَسَخَّرَ لَكُمُ اللَّيْلَ وَالنَّهَارَ)

[سورة ابراهيم (٣٣)]

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Abstract

Space weather has many manifestations and the geomagnetically induced current (GIC) is one of these manifestations, and it could be leaked into high power transmission resulting in power failure and instability. In this project we reviewed some records of blackout occurred as a consequence of space weather disturbances and some measurements of the geomagnetically induced current (GIC) that have been calculated from data within the same ground low latitude region. As such these results have shown that it is very important to consider modeling of GIC in this region.

ملخص البحث

اضطرابات الفضاء تحوي عدة ظواهر والتيار المستحث بواسطة الاضطرابات الجيومغناطيسية يعتبر من احدى هذه الظواهر وهي تتسرب في محولات القوة العالية مما ينتج عنه انقطاع الكهرباء.

في هذا البحث لوحظ ان نتائج انقطاع الكهرباء نتيجة لاضطرابات الفضاء وقياسات التيار المستحث بواسطة الاضطرابات الجيومغناطيسية في نفس المنطقة . قد اوضحت النتائج انه من المهم جدا ان نأخذ في عين الاعتبار النموذج القياسي للتيار المستحث بواسطة الاضطرابات الجيومغناطيسية في هذه المنطقة .

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