



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

***SUDAN UNIVERSITY OF SCIENCE AND TECHNOLOGY***

***COLLEGE OF SCIENCE***

***PHYSICS DEPARTMENT***

**SUN IS A SOURCE OF SPACE WEATHER: Review**

*A project submitted as to complete the requirements of 4<sup>th</sup> -year's course of a B.  
Sc. degree in Physics Science*

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## الاية

وَالشَّمْسُ تَجْرِي لِمُسْتَقَرٍّ لَهَا تَقْلِيحِيرُ الْعَزِيزِ  
وَالْقَمَرَ لِيَقْدَرْنَ نَاهُ مَنَازِلَ حَتَّىٰ عَادَ كَالْعُرْجُونِ

(الْقَدِيمِ)

سورة يس 38 - 39

# ***DEDICATION***

***This work is dedicated***

***To fathers and mothers***

***To brothers and sisters***

***To all friends***

## ACKNOWLEDGEMENTS

*Thanks to Allah who gave us strength, patience, health and motivation to work hard towards completing this study. We would also like to thank our supervisor **Dr. MAGDI ELFADIL**, for the invaluable advisement and support that he offered during writing this report.*

## **Abstract**

In this project we discussed an overview of space weather and its effects on some modern space technology and we studied the structure of the sun.

We also discussed the Earth's magnetic field as well as the layers of the Earth's magnetosphere.

## الملخّص

في هذا المشروع ناقشنا لمحة عامة عن طقس الفضاء وآثاره على بعض التكنولوجيا الحديثة ودرسنا بنية الشمس.

وناقشنا المجال المغناطيسي للأرض وأيضا طبقات الغلاف المغناطيسي للأرض

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