

Assignment Answers

DAY 4 Friday 6/10

Assignment - Space Weather Decision Dashboard

1. Per Dashboard products, which types of events require the most manual analysis?
CMEs
2. Why are we interested in the Kp index in the NASA robotic mission ops context?
It measures the disturbance of the horizontal components of the magnetic field at Earth. It is a measure of the strength of geomagnetic disturbance and storms that can cause satellite damage (answers may vary).
3. What is typical sequence of forecaster action following a detected major CME event?
Send notification with initial parameters analyzed
Finish analysis and start a simulation run with the WSA-Enlil-Cone model
Send an updated notification with simulation results
4. Why STEREO A and B proton information is not currently available? How does this affect our capability to assess space weather?
The orbit of the spacecraft is behind the Sun. We only see the Sun Earth's facing side.