

Economic Value of Space Weather Related Phenomena and Consequent Economic Impact of a Space Weather Service

Scientific Community

Effects and Needs

1. Effects:
 - Stimulation of intellectual activity
 - (additional radiation exposure as a result of excessive air-travel related to conference attendance?)
2. Met needs:
 - (limited) Solar, interplanetary, magnetospheric, ionospheric and ground-based measurements
3. Present or near-term un-met needs:
 - Better spatial and temporal coverage
4. Effects trends:
 - ILWS and other programmes => continued health of solar-terrestrial physics community

Economic Impact

1. Space missions
 - Lost observing time as a result of S/C safeing operations
 - Detector degradation and/or loss
 - Loss of data due to uplink/downlink problems

Very difficult to quantify

Potential economic benefit provided by the deployment of a space weather service

1. Increase in intellectual resources (potential spin-offs?)

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