

Atmospheric and Space Environment

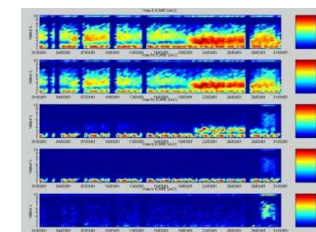
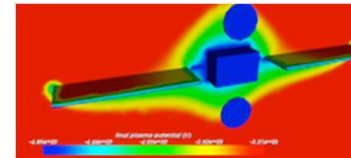
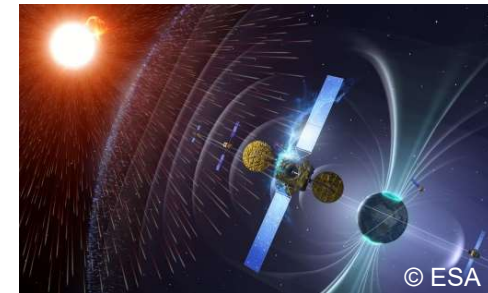
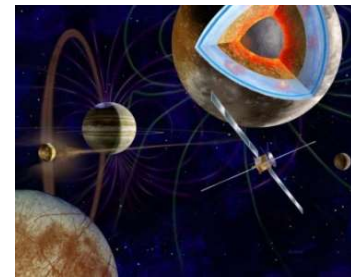
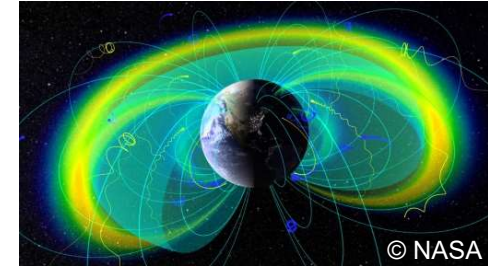
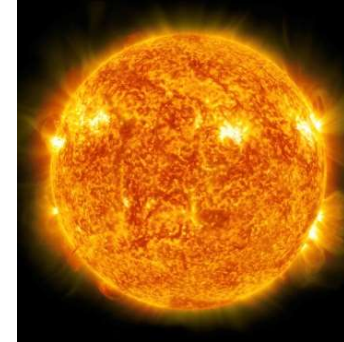
COMET ENV Atmospheric and Space Environment

Marine RUFFENACH
Claude BONIFACE





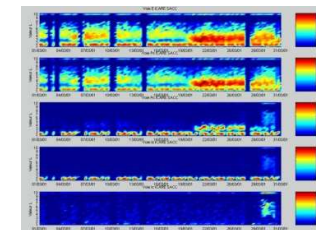
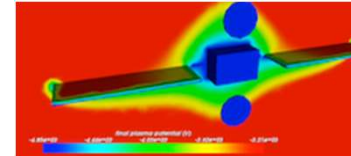
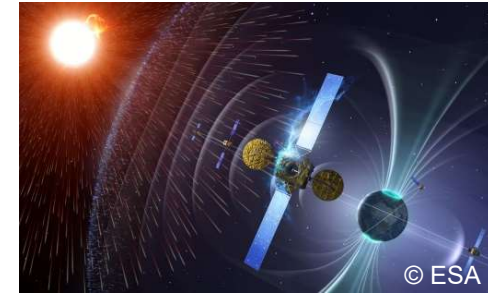
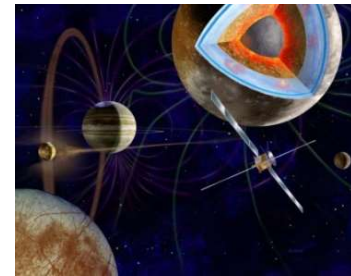
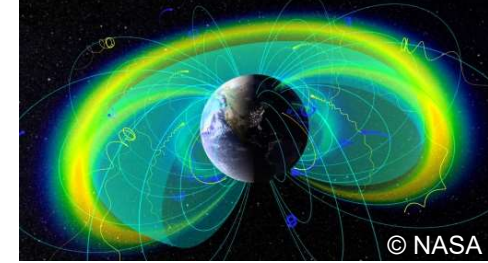
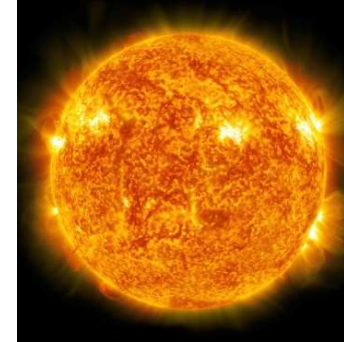
Perimeter of the COMET

- ❖ **Particles, radiations** (Earth, interplanetary, planets)
- ❖ **Magnetic field** (Earth, other planets)
- ❖ **Space weather** (Earth/Sun interaction)
- ❖ **Space debris, meteorites**
- ❖ **Satellite charging**
- ❖ **Variations in upper-atmosphere density**
- ❖ **Composition of the upper-atmosphere** (atomic oxygen,...)



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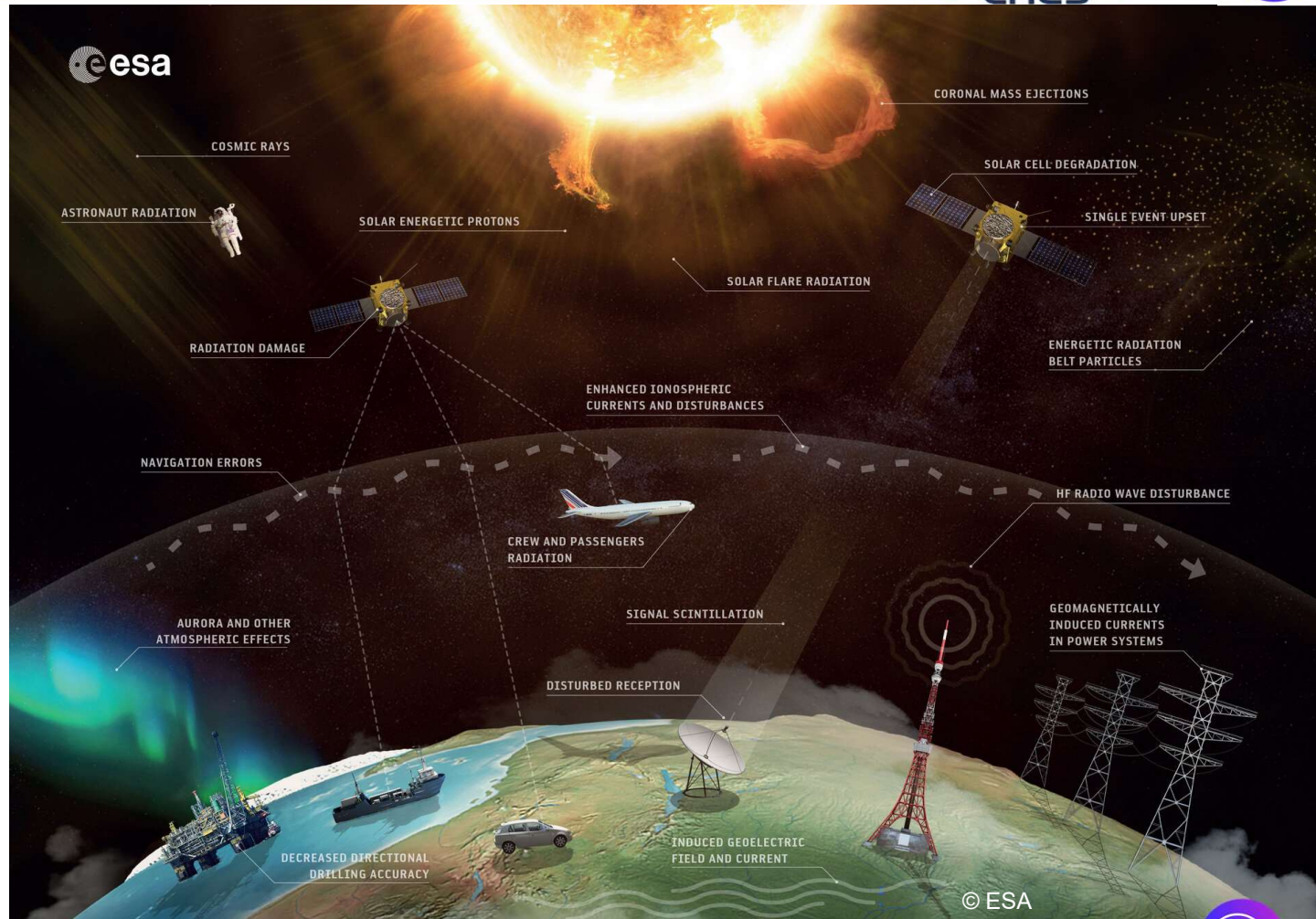


Space Weather

❖ How does the space environment affect our space systems and the Earth ?

❖ Impact of the Space Weather :

- On satellites (SEU, SEL, solar cells...)
- On aeronautics
- On our daily life
- Solar flares
- The atmosphere





Space Weather

❖ **COMET ENV : to propose events around Space Weather and its impacts**

❖ **Events :**

- **Space weather and orbitography : COMET ORB + OPS + ENV (today)**
- **Impact of the Sun on satellites and aeronautics**
- **Solar flares and their impacts on our daily life**
- **The atmosphere**