



# Operational Directorate 4: Solar Physics & Space Weather



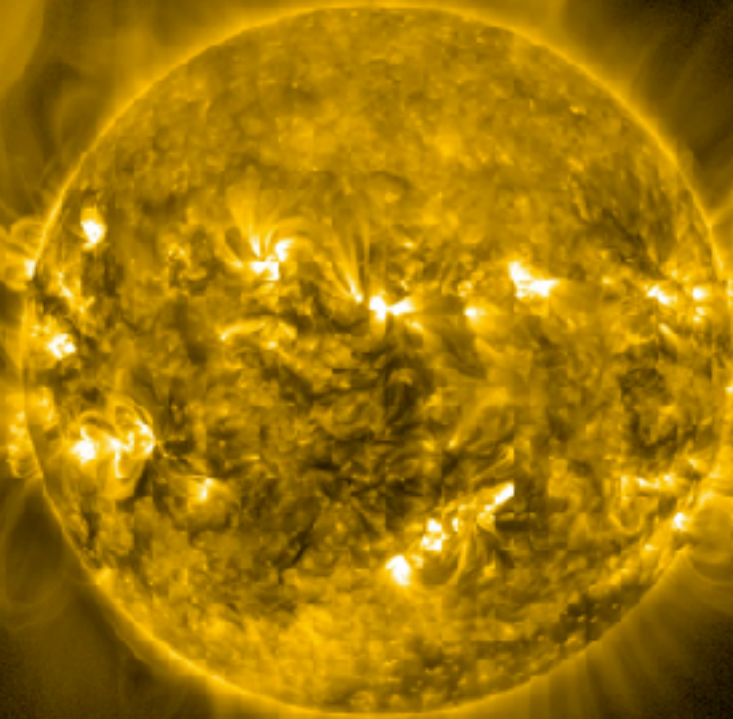
# Operational Directorate 4: Solar Physics & Space Weather Scientific Service: Solar Influences Data analysis Center (SIDC)



# Solar Physics and Space Weather

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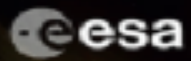
*The Sun as an astrophysical Object*



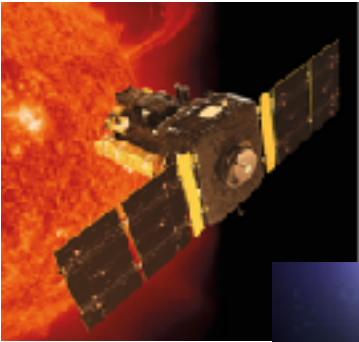
*Operational Services:  
Monitoring and forecasting  
the influence on the Earth*



# Space Weather Services



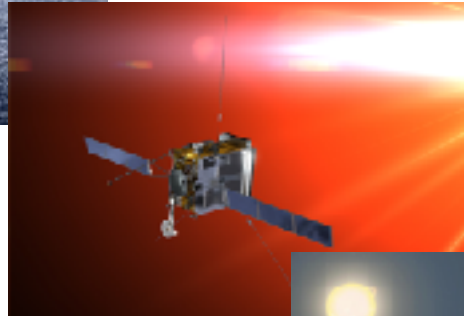
# Observation driven research



SOHO



PROBA-2



Solar Orbiter



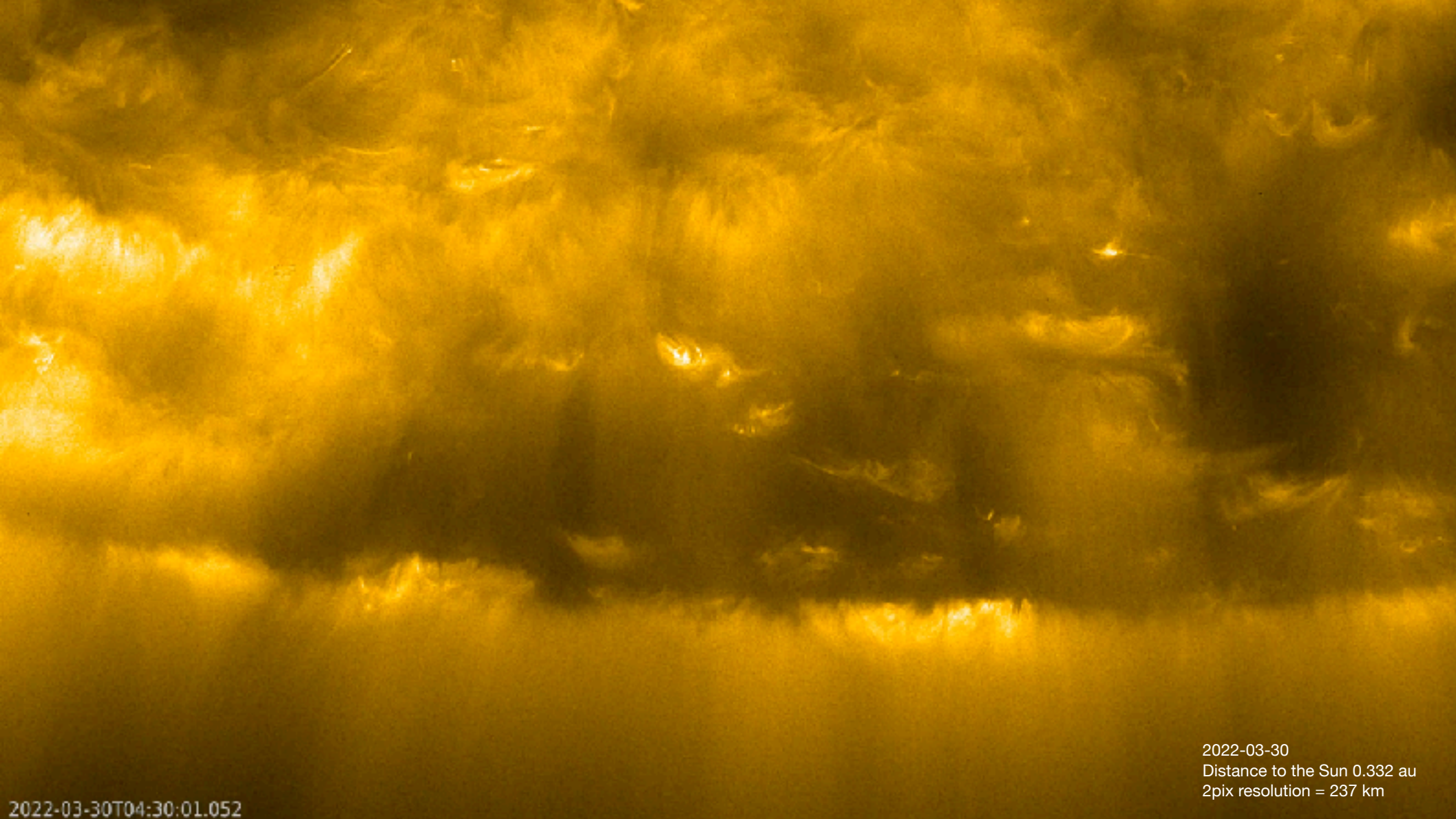
PROBA-3



Uccle Solar Equatorial Table (USET)



Human radio-astronomy site



2022-03-30T04:30:01.052

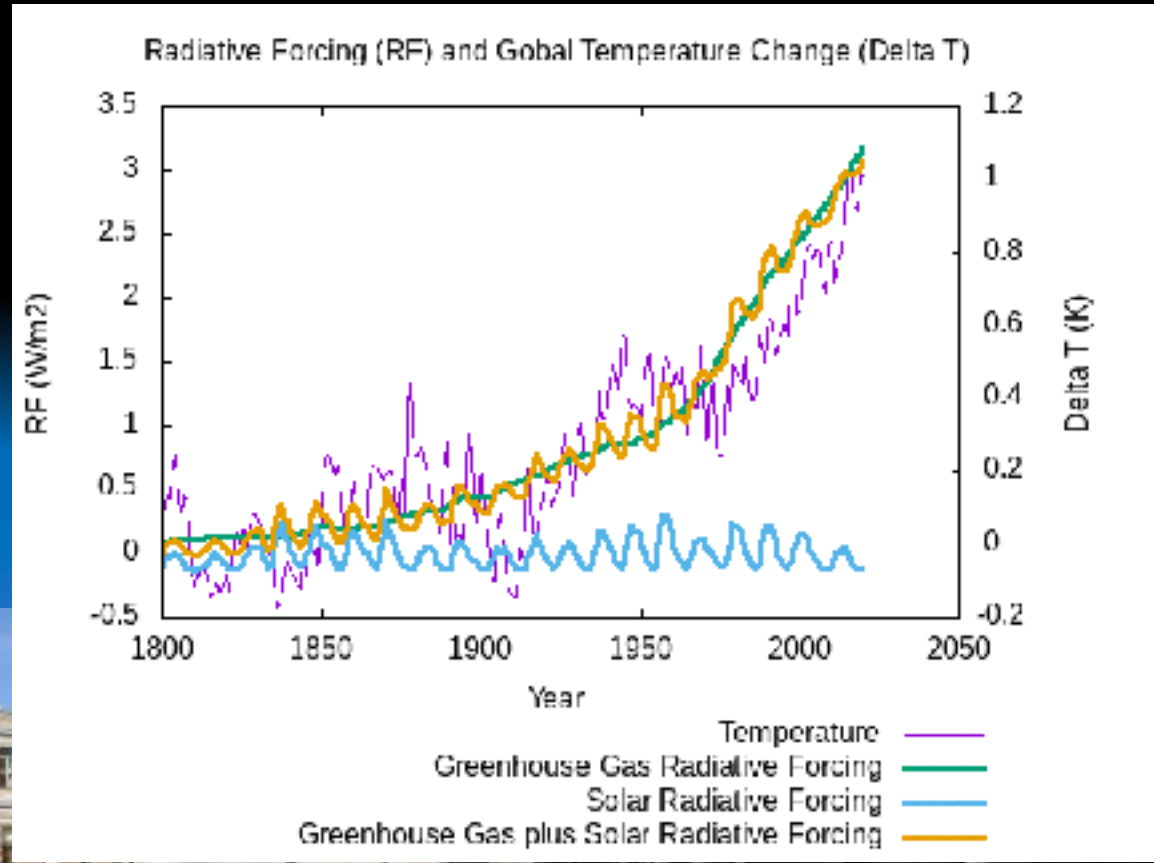
2022-03-30  
Distance to the Sun 0.332 au  
2pix resolution = 237 km



# Sunspots and total Solar Irradiance



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# National and International context

- Solar-Terrestrial Centre of Excellence (STCE)
- KULeuven/ Centre for mathematical Plasma Astrophysics (CmPA)
- U Liege/ Centre Spatiale de Liege (CSL)

Belgium is a  
global player  
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- European Space Agency (ESA)
- International Space Environment Service (ISES)
- International Civil Aviation Organisation (ICAO)

# Key-performance indicators

	2015	2018	2020	2023
People	43	43	42	52

50% solar physicists  
40% female  
10% Phd student  
6% statutory scientists

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