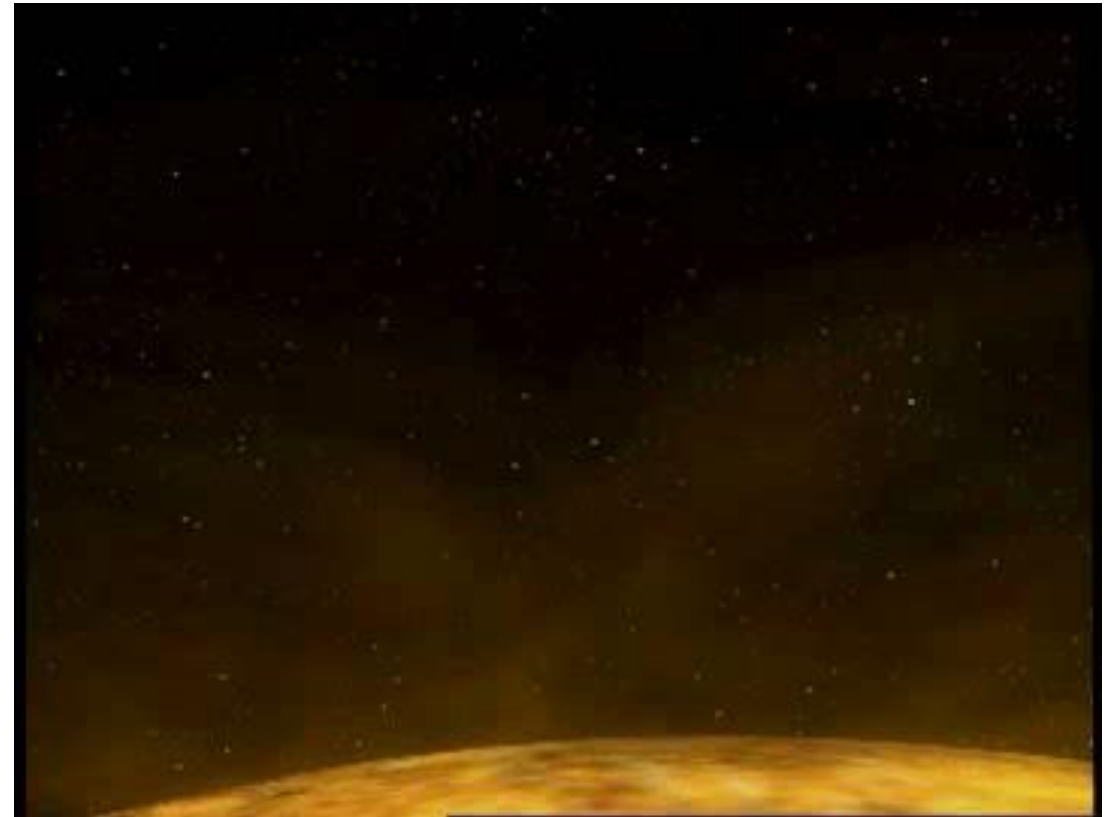




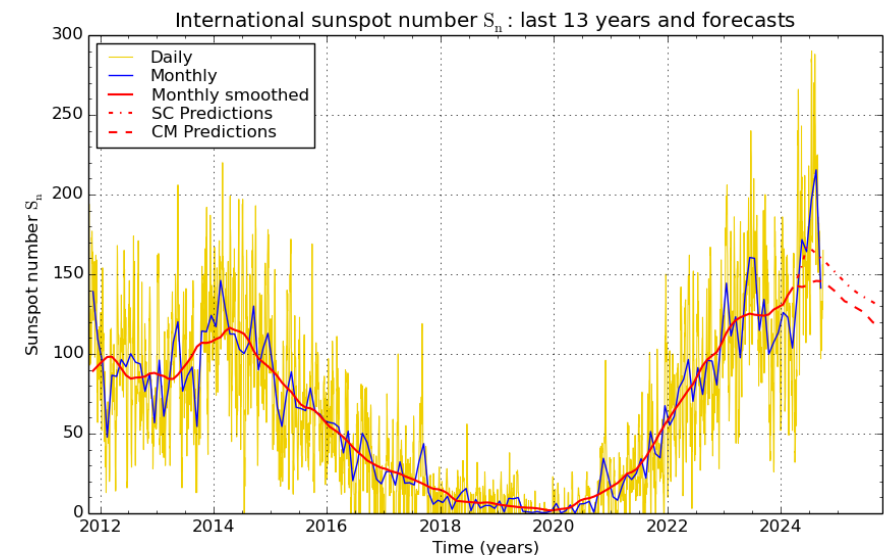
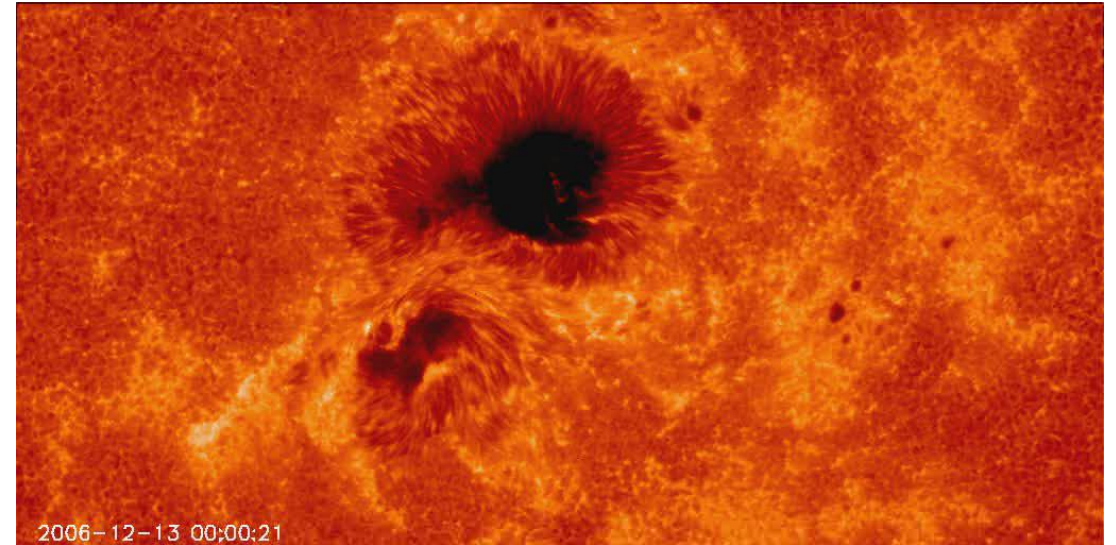
Bc: Geoeffectivity of solar flares

- Flares originate from solar active regions
- Plasmoids travel through interplanetary space, may collide with the Earth
- Statistical study
 - What is more important for the geoeffectivity of the solar flare: its strength or its location on the solar disc?
- To be done
 - New database from public resources
 - Proposal of the multiparametric fitting model
 - Testing and evaluation of the model



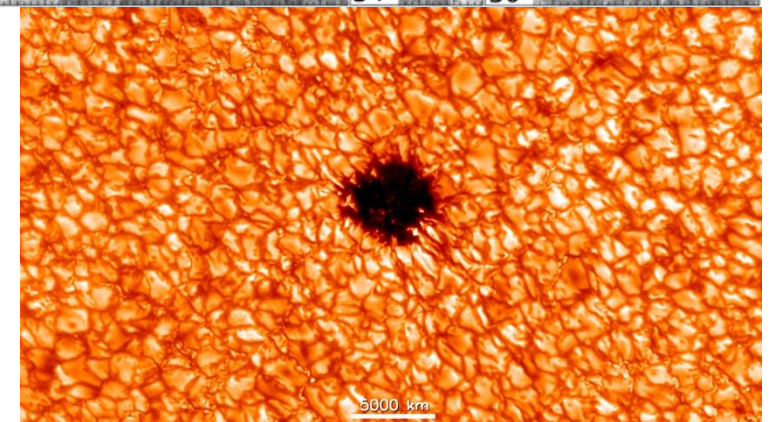
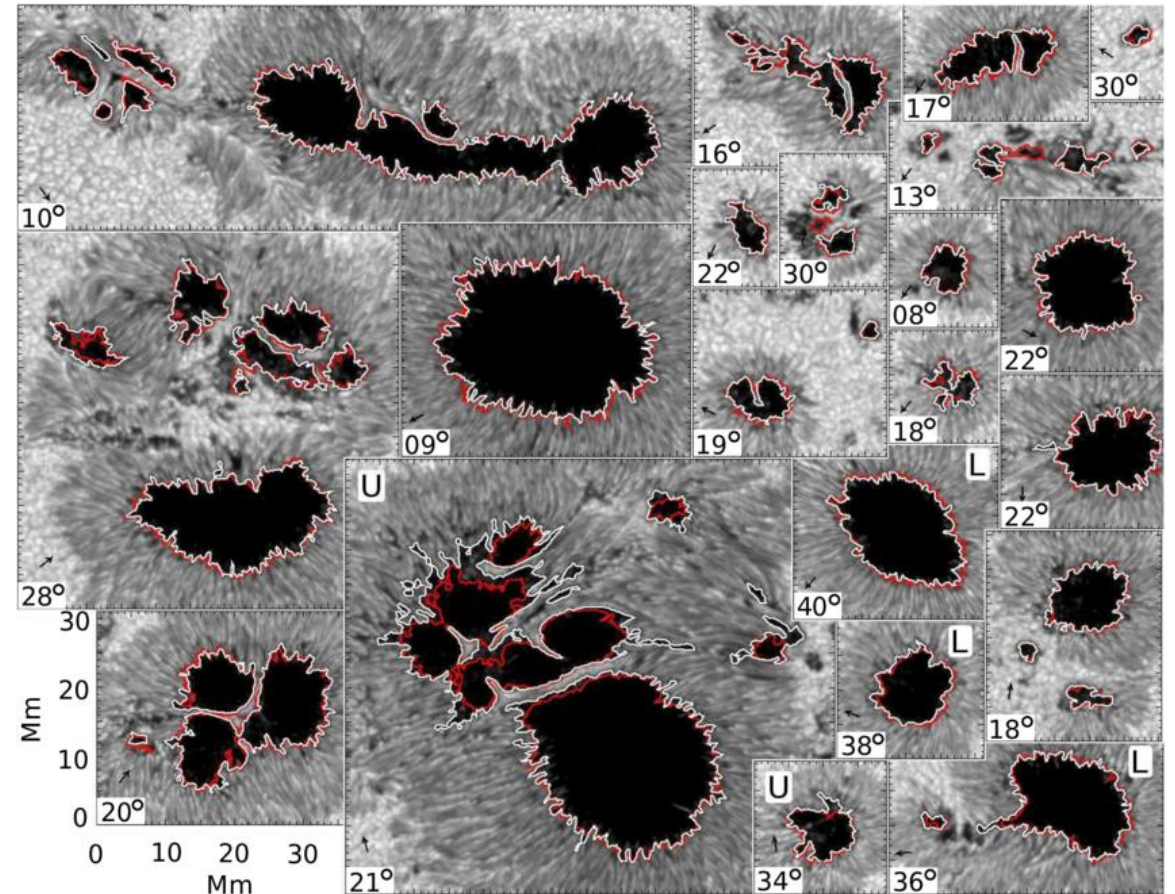
Bc: Appearance of solar flares

- Solar flares originate from active regions
- Statistical study
 - How do the histograms of the flares look like depending on the properties of the active region and phase of the solar cycle?
- To be done
 - New database from public resources
 - Proposal of the multiparametric fitting model
 - Evaluation and testing of the model



Mgr: An average pore

- Sunspots have different shapes
 - What if they all are a realisation of something common?
- Constructing an ensemble average
 - Study for large ARs is running
- To be done
 - Choice of the suitable candidates
 - Data processing (pipelines already somewhat exist)
 - Ensemble average
 - Discussion of the properties and evolution of the average



PhD: need to talk

- Possible topics
 - Structure and dynamics of solar active regions
 - Large-scale data mining studies
 - Even MHD-like modelling (1D, but parametric studies)
 - Helioseismology and applications



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