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JSPS Presentation at University College London

Thursday 26th October 2006



Gemma Attrill

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Mullard Space Science Laboratory (MSSL)

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JSPS Fellow (Summer Programme 2005)

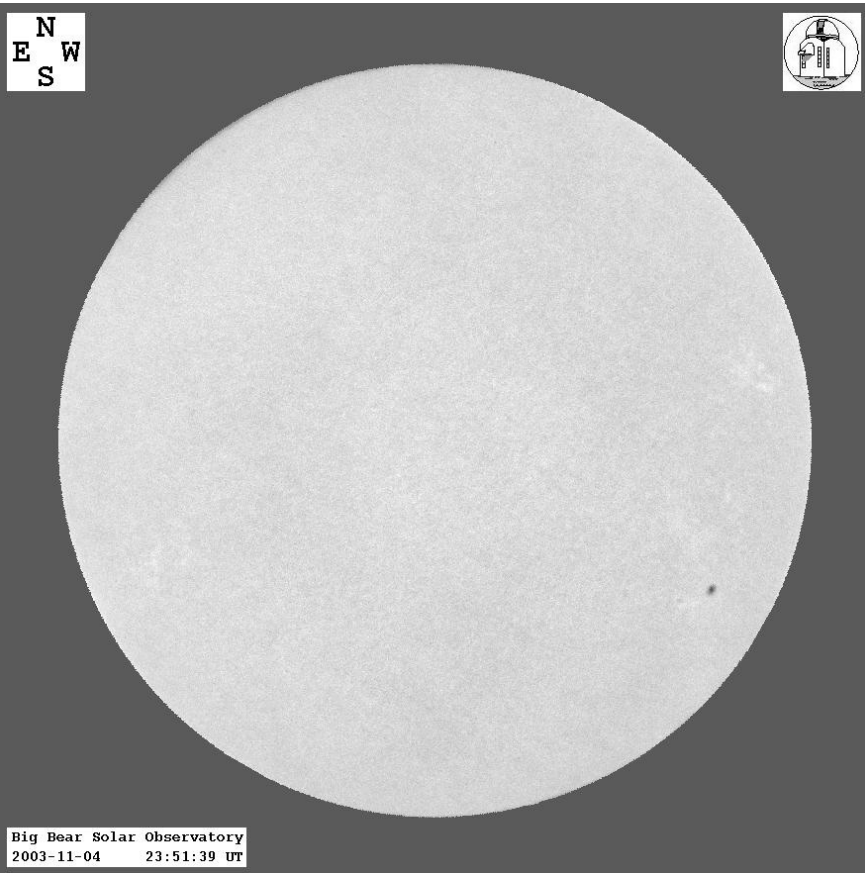
Host: Prof K. Shibata

Kwasan & Hida Observatories

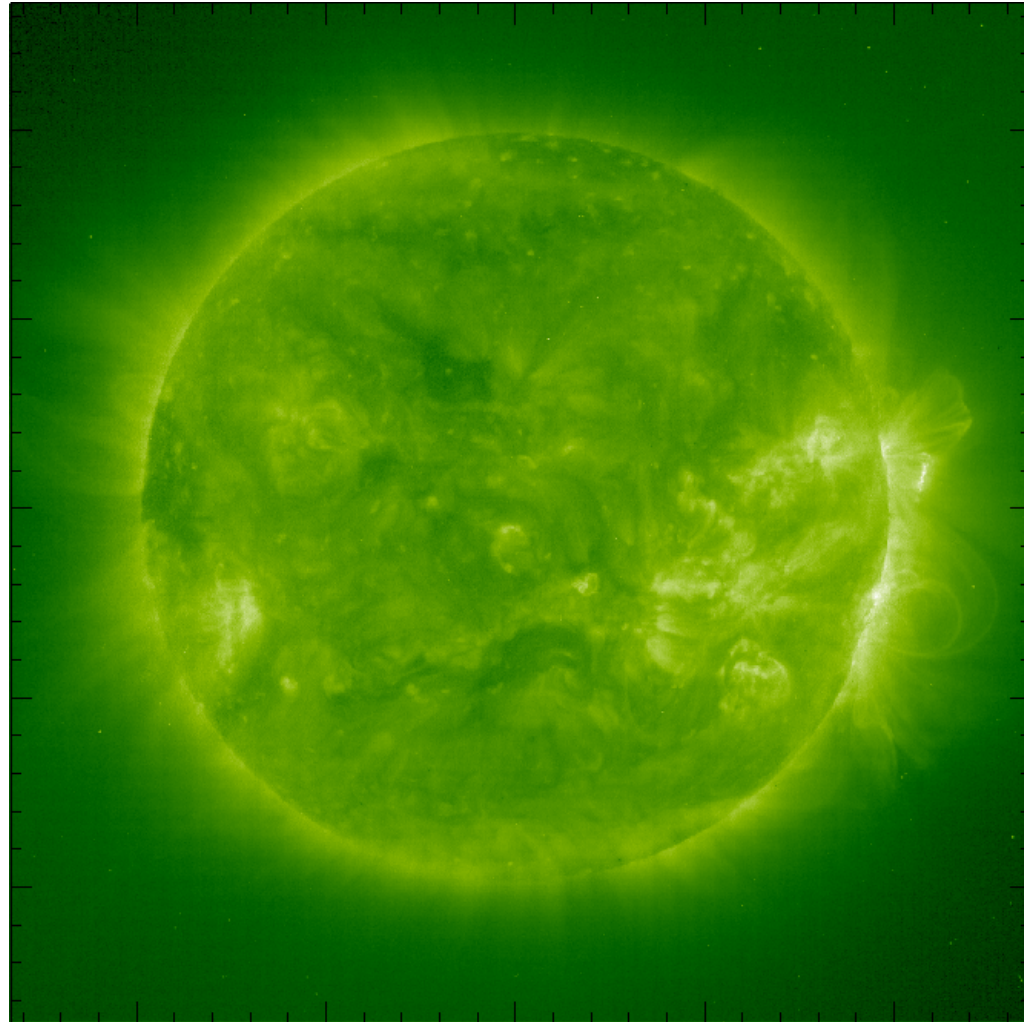
Graduate School of Science, Kyoto University

The Sun

White (Visible) Light



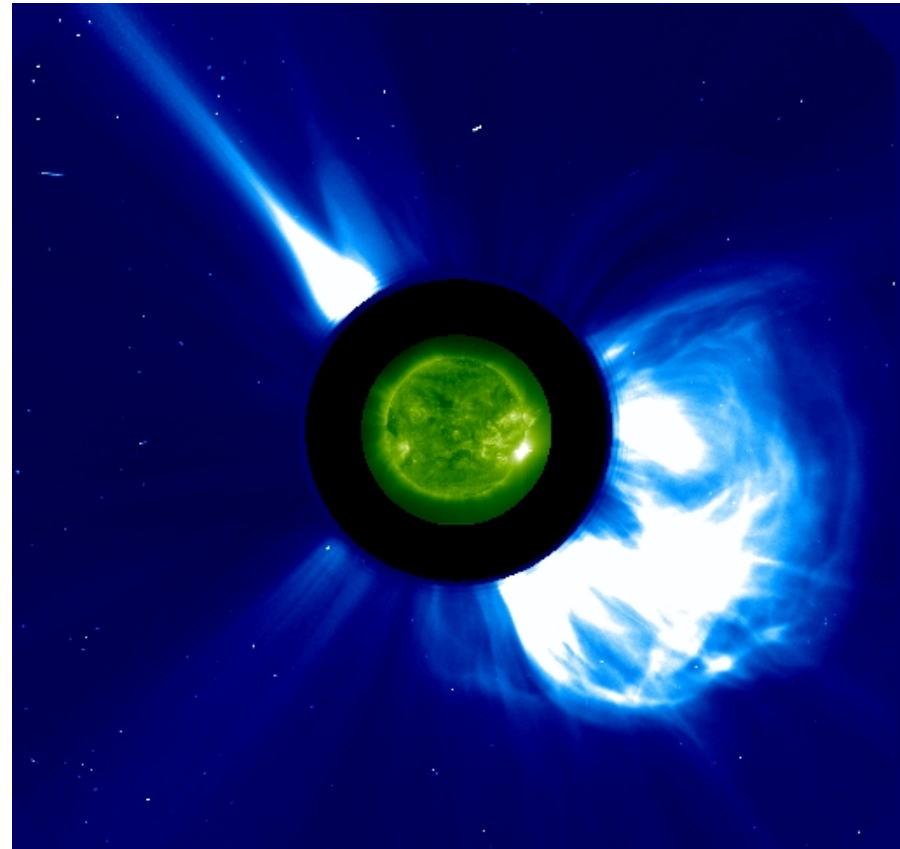
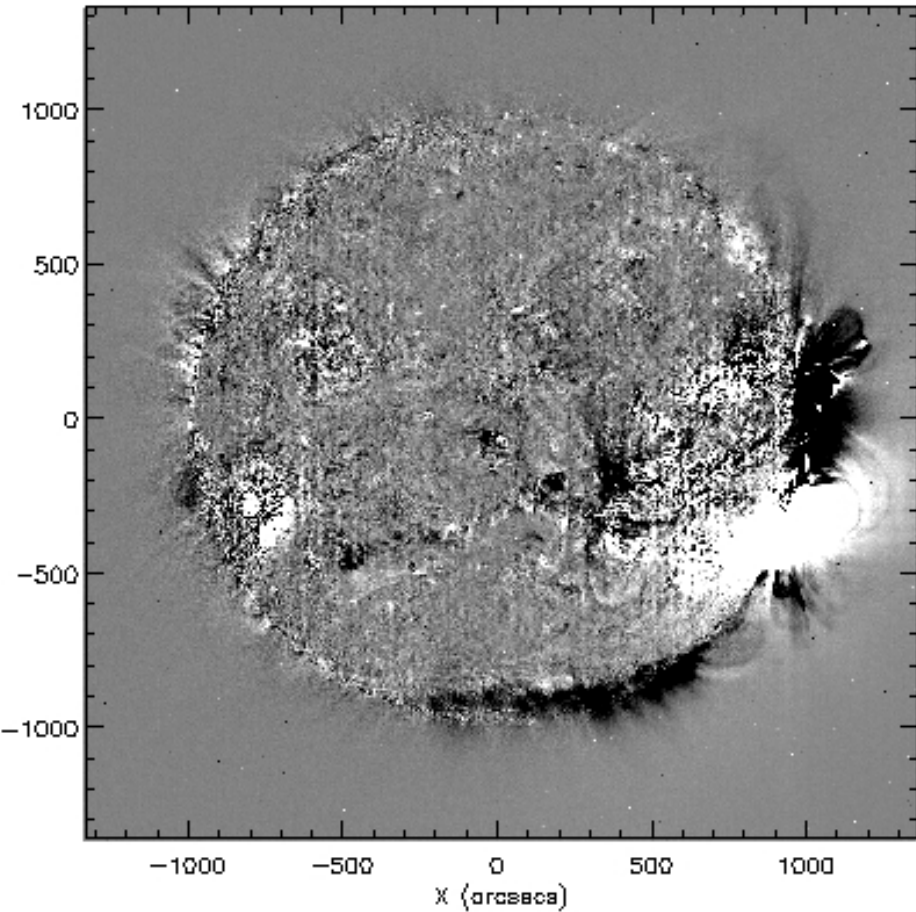
Extreme Ultra-Violet (EUV)



My Research: Solar Physics

- Activity in the solar atmosphere

Rocket Science EIT 195 4-Nov-2003 20:11:20.928 UT



Why do we need to understand activity in the solar atmosphere?

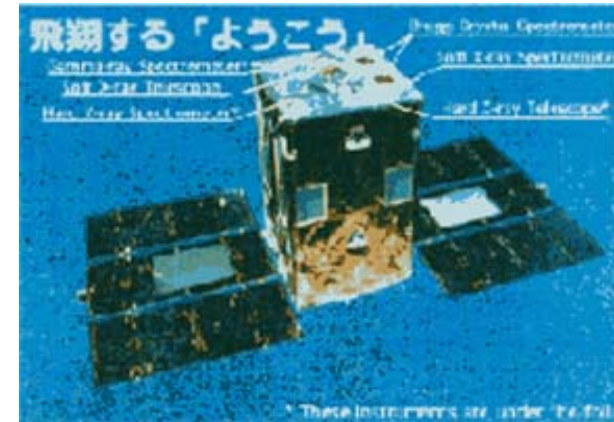


Why go to Japan?

Japanese - British space industries and research have a close relationship when it comes to solar physics:

Yohkoh - Sunbeam

Japanese Solar mission with US and UK collaboration. *Yohkoh* was launched into Earth orbit in August 1991 and provided valuable data about the physics of the Sun's atmosphere. The satellite carried 4 instruments - including a Bragg Crystal Spectrometer, built by a consortium led by MSSL. *Yohkoh* ceased operating in December 2001.



Hinode - Sunrise

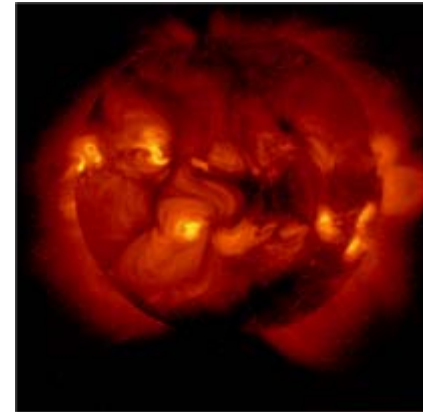
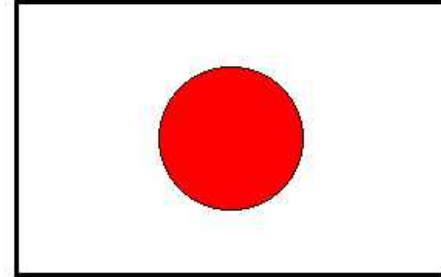
Follow-up mission comprising of 3 instruments, including an EUV imaging spectrometer built by a consortium again led by MSSL.

Hinode was successfully launched on 22nd September 2006.



Personal motivation for going to Japan:

- Expertise of Japanese Solar Physicists
- Work with the respected Kyoto group
- Japan = “State-of-the-art”
- Experience of working abroad
- Build my own personal contacts for future collaborations
- Curiosity about Japanese culture
- Japan is the land of the rising Sun
- I like a challenge!



The generous funding from JSPS and the British Council allowed all of this and more....

Kwasan & Hida Solar Observatories

Historical university : truly state-of-the-art



Colleagues



& Friends



Japanese Culture (Kyoto-style)



Organisation



Gadgets



Fireworks



Festivals



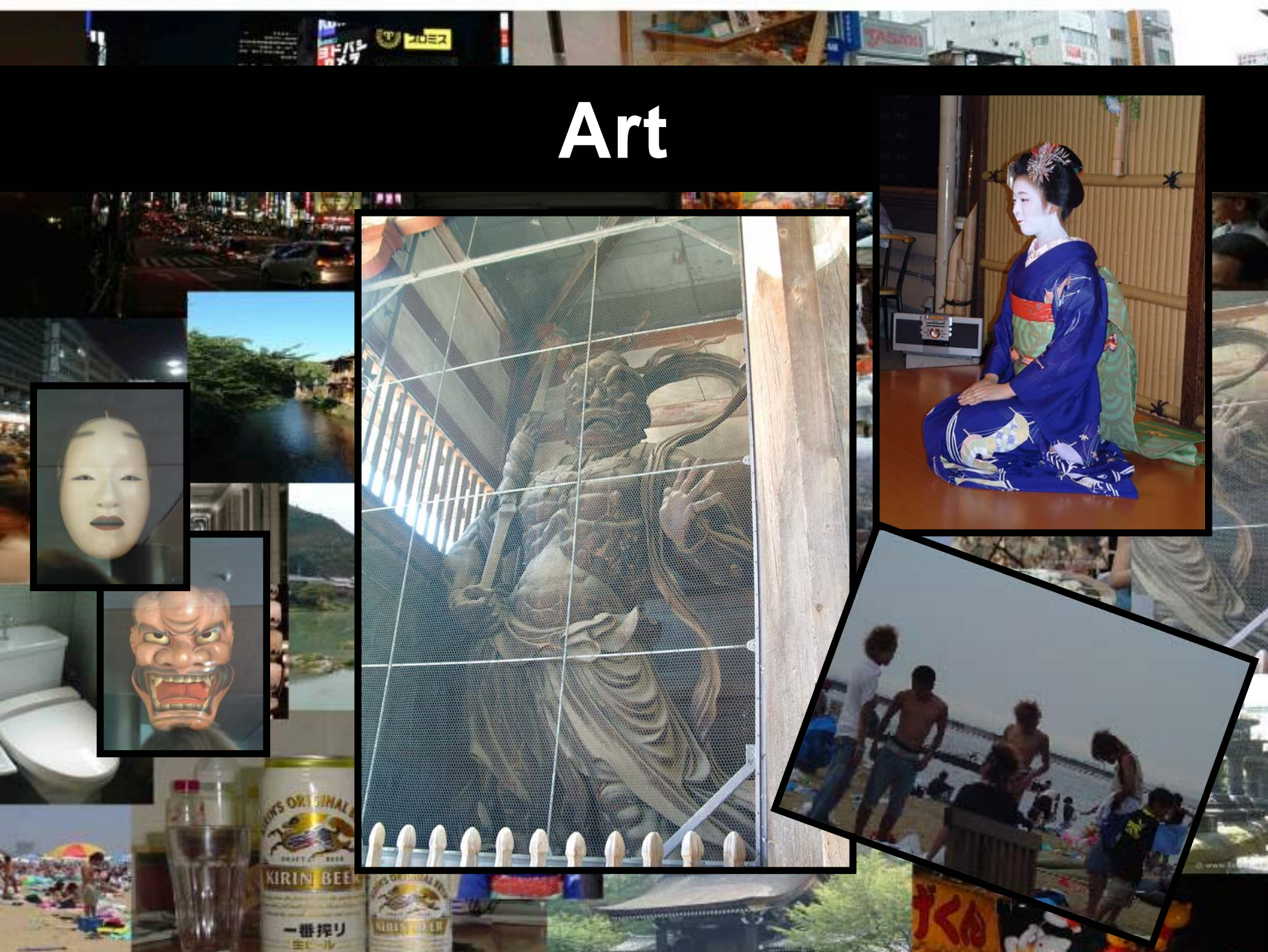
Religion



History



Art





But those were just my experiences.....

Go and discover your own Japan!



Deep gratitude to JSPS for the financial support and for providing the opportunity to study & live in Japan

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- Outcome of JSPS summer fellowship work was presented & published in ESA SP-596 conference proceedings
- Work started in Japan was motivation for a peer-reviewed full article now published in Solar Physics journal [Sol. Phys., 238, 117]
- Discussions & collaborations initiated in Japan form the foundation & theme of my PhD thesis
- I will be returning to Japan early next year to JAXA, working with data from *Hinode*.

