

Dear colleagues,

We cordially invite you to participate in the 12th Annual Meeting of Asia Oceania Geosciences Society, to be held in Singapore from 2 to 7 August 2015
(<http://www.asiaoceania.org/society/index.asp>)

and to submit abstracts to session

ST24. Solar activity, Space Weather and Space Climate in SCOSTEP's VarSITI program

Conveners:

Katya Georgieva and Kazuo Shiokawa – VarSITI co-chairs

Co-conveners:

Nat Gopalswamy – NASA, SCOSTEP's president

Thai Lan Hoang (Vietnam Academy of Science and Technology, Viet Nam)

Boian Kirov (Bulgarian Academy of Sciences Sofia, Bulgaria)

Petra Koucká Knížová (Academy of Sciences of the Czech Republic, Czech Republic)

Dr. Georgeta Maris Muntean (Institute of Geodynamics of the Romanian Academy, Romania)

Abstract submission deadline: 18 February 2015

Description of the session:

The Sun, its extended corona, the interplanetary space, the Earth's magnetosphere, ionosphere, middle and low atmosphere, are all parts of a complex system – the heliosphere. Various manifestations of solar activity cause disturbances known as space weather effects in the interplanetary space, near-Earth environment, and all the Earth's "spheres". Long-term variations in the frequency, intensity and relative importance of the manifestations of solar activity are due to the slow changes in the output of the solar dynamo, and they define space climate. Space climate governs long-term variations in geomagnetic activity and is the primary natural driver of terrestrial climate. To understand how the variable solar activity affects the Earth's environment, geomagnetic activity and the atmospheric system on both short and long time scales, we need to understand the origins of solar activity itself and its different manifestations, as well as the sequence of coupling processes linking various parts of the system. This is the goal of the new 5-year program VarSITI ("Variability of the Sun and Its Terrestrial Impacts") of the Scientific Committee on Solar-Terrestrial Physics (SCOSTEP) which started in 2014. This session provides a forum to discuss the chain of processes and relations from the Sun to the Earth's surface: the origin and long-term and short-term evolution of solar activity, variations in solar total and spectral irradiance and their effects on the Earth's system, initiation and temporal variations in solar flares, CMEs, coronal holes, the solar wind and its interaction with the terrestrial magnetosphere, the ionosphere and its connection to the neutral dominated regions below and the plasma dominated regions above, the stratosphere, its variations due to the changing solar activity and its interactions with the underlying troposphere, and the mechanisms of solar influences on the lower atmosphere on different time-scales. Particularly welcome are interdisciplinary papers highlighting the coupling processes between the different domains in this complex system.

Wishing you all a peaceful, healthy, successful and very happy New Year 2015,

Katya and Kazuo

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