

# Space Climate Symposium 4

## Sunday - 16th of January

11:00	Registration Opens Posters
13:00-14:30	Lunch
14:30	Shuttle to the beach
17:30	Return shuttle to hotel
18:00-19:00	Posters
19:00	Reception and Dinner

## Monday - 17th of January

### Session 1

9:00-9:45	Bas Van Geel	Climate change in historical and solar perspective
9:45-10:15	Petrus Martens	The Faint Young Sun Problem: A Solar Origin?
10:15-10:45	Arnold Hansmeier	Space weather and space climate on extrasolar planetary systems

10:45-11:30 Coffee

### Session 2

11:30-12:00	Alexander Ruzmaikin	Solar Influence on the Earth's Climate on global and regional scales
12:00-12:30	Ramesh Rengaswamy	Palaeomonsoon and Solar activity
12:30-13:00	José Vaquero	Space climate research using early solar observations: some recent progress

13:00-14:30 Lunch

### Session 3

14:30-15:15	Arnab Rai Choudhuri	The solar dynamo and solar cycle predictions
15:15-15:35	Sylvaine Turck-Chièze	On the origin on long trend variation of the solar activity
15:35-15:55	Bidya Binay Karak	Modeling Solar Cycle Irregularities Using Flux Transport Dynamo Models
15:55-16:25	Katya Georgieva	Long-term variations of solar dynamo parameters and effects on terrestrial climate
16:25-16:45	Andrés Muñoz-Jaramillo	Are Active Regions as Relevant for the Solar Cycle as we Think?

16:45-18:30 Coffee & Posters

18:30	Opening Ceremony	Official conference opening: - Remarks by LOC and SOC - Talk by Dr. Siraj Hasan "Solar and Space Science in India"
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**- Dinner**

## Tuesday - 18th of January

### Session 4

8:30-9:15	Werner Schmutz	Total Solar Irradiance - Reconstruction and a new value from PREMOS/PICARD
9:15-9:45	Amitava Bhattacharjee	Fast and Impulsive Magnetic Reconnection: Mediator of Geomagnetic Activity
9:45-10:15	Shashikumar Chitre	Helioseismic View of the Sun

10:15-11:00 Coffee

### Session 5

11:00-11:30	Madhulika Guhathakurta	Sun-Climate Research in LWS/ILWS (Invited)
11:30-12:00	W. Dean Pesnell	The Solar Dynamics Observatory: The First Six Months
12:00-12:30	Jonathan Cirtain	New Results from Hinode: A Systems Science Approach to Heliophysics
12:30-12:50	Don Hassler	Imaging Spectroscopy as a Tool to Understanding Solar & Heliospheric Processes

12:50-14:20 Lunch

### Session 6

14:20-14:50	Jean Rozelot	Variations of solar dimensions and relation to solar activity
14:50-15:10	Gabriel Chiodo	Solar cycle effects in two coupled chemistry-climate models
15:10-15:40	Girish T.E	Solar magnetic flux amplification factor and upper limit to solar activity and space weather
15:40-16:10	Gufan Beig	Long-term changes and solar signal in the upper atmosphere

16:10-17:20 Coffee & Posters

17:30 Shuttle to the beach

19:00 Return shuttle to hotel

## Wednesday - 19th of January

### Session 7

8:30-9:00	Juerg Beer	Potential and Limitations of Cosmogenic Radionuclides in Space Climate
9:00-9:30	Archana Bhattacharyya	Long term geomagnetic variations at a low latitude observatory
9:30-10:00	Kalevi Mursula	Latest News about the Bashful Ballerina

10:00-10:30 Coffee

### Focus Topic/Working Group on Solar Minimum 23-24 Panelists: Jurg Beer, Sarah Gibzon, Hiroko Miyahara, Kalevi Mursula and Dibyendu Nandi.

10:30-11:00	Sarah Gibzon	WHI in the Context of a Long and Structured Solar Minimum: An Overview of Sun-to-Earth Observations
11:00-11:30	Dibyendu Nandi	Origin of the Unusual Minimum of Solar Cycle 23
11:30-12:00	John Richardson	The Solar Wind in the Recent Solar Minimum: Effects at 1 and 100 AU
12:00-12:30	Hiroko Miyahara	Variations of solar activity, cosmic rays, and climate during the Maunder Minimum

12:30-13:00 Discussions

13:00-19:30 Lunch and Sightseeing Tour

## Thursday - 20th of January

### Session 8

8:30-9:15	Bruce Tsurutani	Long-Term Changes in the Solar Wind and Heliospheric Magnetic Fields and Interaction with Geospace
9:15-9:45	Nat Gopalswamy	Solar cycle variation of CMEs and CIRs
9:45-10:15	Prasad Subramanian	Cosmic Rays, Forbush Decreases and CMEs
10:15-10:45	P.K. Manoharan	Peculiar Minimum of Solar Cycle 23 - Structure of Three-dimensional Heliosphere

10:45-11:30 Coffee

### Session 9

11:30-11:50	Brigitte Schmieder	CMEs in the Sun Earth System: origins and interplanetary signatures
11:50-12:10	Ramon Lopez	Long-Term solar wind variations
12:10-12:30	Dipankar Banerjee	Detection of Alfvén waves from Spectral line width variations
12:30-12:50	Andrey Tlatov	The centenary changes of the solar corona shape and variation of a global magnetic field of the Sun

12:50-15:00 Lunch

### Session 10

15:00-15:30	Nandita Srivastava	STEREO observations of CMEs : Kinematics and influence on Space Weather
15:30-16:00	Jon Egill Kristjansson	Is there a link between cosmic rays, clouds and climate?
16:00-16:30	Brian Alfred Tinsley	The Effect of the Global Electric Circuit on Clouds and Climate: Observations and Theory for both So

16:30-17:10 Coffee

### Session 11

17:10-17:30	Ben Laken	Forbush decreases and anomalous cloud changes detected over Antarctica
17:30-18:00	Anders Tjulin	EISCAT_3D: A European three-dimensional imaging radar for atmospheric and geospace research

19:00 Banquet

## Friday - 21st of January

### Session 12

8:30-9:15	Stanley Solomon	Solar, Geomagnetic, and Chemical Effects on the Climate of the Upper Atmosphere
9:15-9:45	Dibyendu Chakrabarty	On the coupling issues of low latitude ionosphere-thermosphere system during space weather events
9:45-10:15	Franz-Josef Lübken	Solar and terrestrial effects in the mesosphere/lower thermosphere
10:15-10:35	Timo Asikainen	The longest systematically calibrated series of magnetospheric energetic particle measurements

10:35-11:20 Coffee

### Session 13

11:20-11:50	Monika Korte	Long term changes of the geomagnetic field
11:50-12:10	Lilia Biktash	Solar wind energy input to the magnetospheric ring current in the 22 and 23 solar cycles
12:10-12:30	Rashmi Rawat	Geomagnetic storm signatures at low-latitudes during descending phase of solar cycle 23
12:30-12:50	Tamara Kuznetsova	Characteristic manifestations of long-periodic solar cycles in climate changes
12:50-13:10	Lev Pustil'nik	Space Climate influence on crop and wheat prices

13:10 Lunch

13:10 SOC/LOC Meeting