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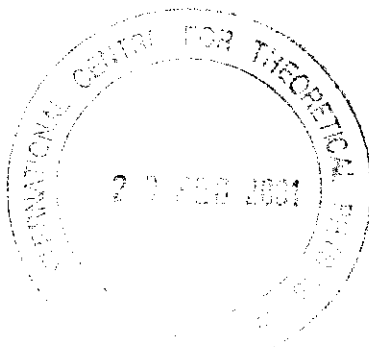
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**WORKSHOP ON PHYSICS OF MESOSPHERE-STRATOSPHERE-TROPOSPHERE
INTERACTIONS WITH SPECIAL EMPHASIS ON MST RADAR TECHNIQUES**

13 November 2000 - 24 November 2000

FINAL LIST OF PARTICIPANTS

Total number of visitors for this activity = 30



Updated: 29 November, 2000

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Name and Institute	Status	Nationality
28. TITIEK Titiek Setiawati <u>Research:</u> UPPER ATMOSPHERE <u>Topic:</u> IONOSPH. DYNAMIC AND ATMOS. INTERA. <u>Permanent Institute:</u> Ionospheric Research and Development Centre of Lapan Jl. Dr. Junjuran 135 P.O. Box 26 40173 Bandung Indonesia E-Mail address: SETIAWATI@HOTMAIL.COM	PARTICIPANT	Indonesia
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WORKSHOP ON PHYSICS OF MESOSPHERE- STRATOSPHERE-TROPOSPHERE INTERACTIONS WITH SPECIAL EMPHASIS ON MST RADAR TECHNIQUES

13 - 24 November 2000

FINAL PROGRAMME

Monday, 13 November

TIME	VENUE	LECTURE / LECTURER	
09.00 - 09.30		REGISTRATION	
09.30 - 11.00		ADMINISTRATIVE MATTERS	
11.00 - 11.30	"C"	OPENING	
11.30 - 12.30	"C"	A brief history and an overview of radars for studies of the atmosphere and ionosphere	S. Fukao, Kyoto University and J. Röttger, Max-Planck-Institute
12.30 - 14.30		LUNCH BREAK	
14.30 - 15.30	"C"	Introduction to probing the lower atmosphere with MST radar technique	K. S. Gage N.O.A.A.
15.30 - 16.30	"C"	MST and ST radar observations of the lower atmosphere	K. S. Gage N.O.A.A.

* **VENUE:** kindly refer to the indication of the 2nd column.

"C" = lectures are held in room "C", terrace level Main Building

Lab. = exercises are held in the ComputerLab ground floor Main Building

Tuesday, 14 November

TIME	VENUE	LECTURE / LECTURER	
09.00 - 10.00	"C"	Principles and system configuration of MST radar	S. Fukao Kyoto University
10.00 - 11.00			
11.00 - 12.00	"C"	Details on radar modulation schemes, data acquisition and analysis techniques	J. Röttger Max-Planck-Institute
12.00 - 13.00			
13.00 - 14.30		LUNCH BREAK	
14.30 - 15.30	LAB	LABORATORY AND GROUP DISCUSSIONS	S. Fukao Kyoto University J. Röttger Max-Planck-Institute
15.30 - 16.30			
16.30 - 17.30			

Wednesday, 15 November

TIME	VENUE	LECTURE / LECTURER	
09.00 - 10.00	"C"	MST radar hardware and related techniques	S. Fukao Kyoto University
10.00 - 11.00			
11.00 - 12.00	"C"	Spaced antenna method and interferometry: multiple receiver and multi-frequency techniques	J. Röttger Max-Planck-Institute
12.00 - 13.00			
13.00 - 14.30		LUNCH BREAK	
14.30 - 15.30	LAB	LABORATORY AND GROUP DISCUSSIONS	S. Fukao Kyoto University J. Röttger Max-Planck-Institute
15.30 - 16.30			
16.30 - 17.30			

Thursday, 16 November

TIME	VENUE	LECTURE	LECTURER
09.00 - 10.00	"C"	Weather and climate of the tropical atmosphere	K. S. Gage N.O.A.A.
10.00 - 11.00	"C"	Probing the tropical atmosphere: wind observations	K. S. Gage N.O.A.A.
11.00 - 12.00	"C"	Synoptic-scale disturbances and cyclones: frontal systems, tropopause foldings and typhoons	J. Röttger Max-Planck-Institute
12.00 - 13.00			
13.00 - 14.30		LUNCH BREAK	
14.30 - 15.30	LAB	LABORATORY AND GROUP DISCUSSIONS	J. Röttger Max-Planck-Institute
15.30 - 16.30			
16.30 - 17.30			

Friday, 17 November

TIME	VENUE	LECTURE	LECTURER
09.00 - 10.00	"C"	Probing the tropical atmosphere	K. S. Gage N.O.A.A.
10.00 - 11.00	"C"	Precipitation studies using UHF/VHF radars and TRIM	D. Narayana Rao Sri Venkateswara University
11.00 - 12.00	"C"	Z - R relationships	D. Narayana Rao Sri Venkateswara University
12.00 - 13.00	"C"	Tropical rainfall measuring mission	D. Narayana Rao Sri Venkateswara University
13.00 - 14.30		LUNCH BREAK	
14.30 - 15.30	LAB	LABORATORY AND GROUP DISCUSSIONS	D. Narayana Rao Sri Venkateswara University
15.30 - 16.30			
16.30 - 17.30			

Monday, 20 November

TIME	VENUE	LECTURE / LECTURER	
09.00 - 10.00		LIBRARY CONSULTATION	
10.00 - 11.00			
11.00 - 12.00	"C"	Turbulence at Mesospheric heights	D. Narayana Rao Sri Venkateswara University
12.00 - 13.00			
13.00 - 14.30		LUNCH BREAK	
14.30 - 15.30	LAB	LABORATORY AND GROUP DISCUSSIONS	D. Narayana Rao Sri Venkateswara University
15.30 - 16.30			
16.30 - 17.30			

Tuesday, 21 November

TIME	VENUE	LECTURE	LECTURER
09.00 - 10.00	"C"	Anisotropic and isotropic radio- wave scatter	W. K. Hocking University of Western Ontario
10.00 - 11.00			
11.00 - 12.00	"C"	Gravity waves in the atmosphere	W. K. Hocking University of Western Ontario
12.00 - 13.00	"C"	Meteor physics	W. K. Hocking University of Western Ontario
13.00 - 14.30		LUNCH BREAK	
14.30 - 15.30	LAB	LABORATORY AND GROUP DISCUSSIONS	W. K. Hocking University of Western Ontario
15.30 - 16.30			
16.30 - 17.30			

Wednesday, 22 November

TIME	VENUE	LECTURE / LECTURER	
09.00 - 10.00	"C"	Introduction to lower ionosphere chemistry	S.M. Radicella ICTP
10.00 - 11.00	"C"	D - region measurements	S.M. Radicella ICTP
11.00 - 12.00	"C"	Basics of coherent and incoherent scatter from the middle atmosphere	J. Röettger Max-Planck-Institute
12.00 - 13.00			
13.00 - 14.30		LUNCH BREAK	
14.30 - 15.30	LAB	LABORATORY AND GROUP DISCUSSIONS	D. Narayana Rao Sri Venkateswara University
15.30 - 16.30			
16.30 - 17.30			

Thursday, 23 November

TIME	VENUE	LECTURE / LECTURER	
09.00 - 10.00	"C"	The mesosphere and lower thermosphere in polar latitudes	J. Röettger Max-Planck-Institute
10.00 - 11.00			
11.00 - 12.00	"C"	PARTICIPANTS PRESENTATIONS see Annex to the programme	
12.00 - 13.00			
13.00 - 14.30		LUNCH BREAK	
14.30 - 15.30	"C"	PARTICIPANTS PRESENTATIONS see Annex to the programme	
15.30 - 16.30			
16.30 - 17.10			

Friday, 24 November

TIME	VENUE	LECTURE	LECTURER
09.00 - 10.00	"C"	GENERAL DISCUSSION	
10.00 - 11.00			
11.00 - 12.00	"C"	OFFICIAL CLOSURE	

**WORKSHOP ON PHYSICS OF MESOSPHERE
STRATOSPHERE-TROPOSPHERE-
INTERACTIONS WITH SPECIAL EMPHASIS
ON MST RADAR TECHNIQUES**

13 - 24 November 2000

ANNEX TO PROGRAMME

Participants' case studies

Thursday 23 November 2000

(Morning session)

Chairman: Prof. S.M. Radicella

TIME	VENUE	SPEAKERS	TITLE
11.00 - 11.20	"C"	Geetha RAMKUMAR Trivandrum, India	Lower atmospheric wind measurements using Indian MST radar
11.20 - 11.40	"C"	Asish K. GHOSH Tirupati, India	Causative mechanisms and characteristics of radar back scatters using simultaneous
11.40 - 12.00	"C"	Thota NARAYANA RAO Tirupati, India	Observations of Tropical precipitating systems
12.00 - 12.20	"C"	Mohan KALAVAKUNTA Tirupati, India	Retrieval of humidity profile from MST radar observations
12.20 - 12.40	"C"	K. KRISHNA REDDY Tirupati, India	Planetary Boundary Layer studies using Gadanki-Lower Atmospheric Wind Profiler
12.40 - 13.00	"C"	K. KRISHNA REDDY Tirupati, India	Understanding of monsoon precipitation using Atmospheric radars and disdrometer

Thursday 23 November 2000

(Afternoon session)

Chairman: Prof. D. Narayana Rao

TIME	VENUE	SPEAKERS	TITLE
14.30 - 14.50	"C"	Sarmoko SAROSO Bandung, Indonesia	Dynamics of the mesosphere over Pontianak obtained with a medium frequency radar
14.50 - 15.10	"C"	Edwin C. ORTEGA San Jose, Costa Rica	Cloud Physics studies by radar techniques
15.10 - 15.30	"C"	Sergey A. PULINETS Moscow, Russia	Atmospheric electricity processes in the boundary layer and their connection with
15.30 - 15.50	"C"	Koji KUBO Kyoto, Japan	Basic radar techniques Linear array antenna and atmospheric radar
15.50 - 16.10	"C"	Tomas HALENKA Prague, Czech Rep.	Long term global stratospheric circulation analysis by spectral expansions
16.10 - 16.30	"C"	Tomas HALENKA Prague, Czech Rep.	On the sensitivity of Reg CM2 to ozone incorporation
16.30 - 16.50	"C"	Jacob O. ADENIYI Ilorin, Nigeria	Bottomside ionospheric profile parameters in the IRI model
16.50 - 17.10	"C"	Vyankatesh VYAGHRA Nagpur, India	Meteoric phenomenon and some related topics