

Natural Rubber Systems and Climate Change

Open Digital Workshop
23-25 June 2020
6:00-10:00 GMT



RESEARCH PROGRAM ON
Forests, Trees and
Agroforestry

Agenda with presentation and video recording links

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Day 1 – Tues, 23 June 2020

2:00 – 2:20 pm (GMT +8) **Welcome Address**

Salvatore Pinizzotto, Secretary General, IRSG

Vincent Gitz, Director, CGIAR Research Program on
Forests, Trees and Agroforestry (FTA)

Datuk Dr Abdul Aziz b S A Kadir, Secretary General,
IRRDB

Jerome Sainte Beuve, Rubber Value Chain
Correspondent, CIRAD

2:20 – 4:00 pm

**Session 1: Impact of Climate Change on Rubber and
Potential Changes in the Geography of Production**

**Session 1.1 What do we know about climate change that
is meaningful for rubber production?**



Chairperson: **Dr James Jacob**, Director, RRI India

Impact of Climate Change on Natural Rubber Cultivation in India

Dr James Jacob, Director, RRI India

Worldwide climate typologies of rubber tree cultivation. Risks and opportunities linked to climate change

E. Gohet (P. Thaler, Y. Nouvellon, R. Lacote and F. Gay), CIRAD

Climate change and rubber tree ecophysiology, what do we know?

P. Thaler (E.Gohet, Y. Nouvellon, R. Lacote, F. Gay and F Do), CIRAD

Impact of climate change on latex harvesting

Mr Tajuddin Ismail (Dr Eric Gohet), IRRDB Fellow

Climate change: Effect of diseases and pest outbreaks on rubber productivity

Dr Nguyen Anh Nghia, IRRDB, Liasion Officer for Plant Protection

Q & A

4:00 – 4:20 pm

Break

4:20 – 6:00 pm

Session 1.2 – Country Experiences

Chairperson: **Datuk Dr Abdul Aziz b S A Kadir**, Secretary General, IRRDB

Tornado disaster assessment of rubber plantations in Western Hainan Island using time series images of Landsat and Sentinel-2

Dr Chen Bangqian, CATAS, P.R. China

Climate Change: A planter's experience with disease outbreaks and the challenges to achieve productivity targets

Mr Ashdeepak Singh, Estate Manager, Peninsula Forest Management Sdn Bhd, Selangor, Malaysia

Climate change and its impact on the outbreak of Pestalotiopsis epidemic of Hevea in South Sumatra



Dr Tri Rapani Febbiyanti, Indonesian Rubber Research Institute

Management of Pestalotiopsis outbreak in a rubber plantation in North Sumatra

Dr Zaida Fairuzah, Indonesian Rubber Research Institute

Preparedness of the Sri Lankan Rubber Sector to minimize the impact of Climate Change

Dr Wasana Wjiesuriya, Rubber Research Institute of Sri Lanka

Q & A

Day 2 – Wed, 24 June 2020

2:00 – 3:15 pm

Session 1.3 What is the potential impact on rubber production in both traditional and new areas?

Chairperson: Vincent Gitz, Director, CGIAR Research Program on Forests, Trees and Agroforestry (FTA)

The place of the rubber tree (*Hevea Brasiliensis*) in climate change

Dr K. O. Omokhafe, Rubber Research Institute of Nigeria

Managing soil fertility to improve sustainability of rubber plantations, what do we know?

F. Gay (A. Brauman, E. Gohet, J.P. Laclau, L. Mareschal, P. Malagoli, A.Thoumazeau, Y. Nouvellon, P. Thaler, T. Perron) CIRAD

Breeding Clones for non traditional areas

Dr Ramli Othman, IRRDB Fellow

Climatic monitoring and analysis to optimize rubber cultivation

Dr Thomas Wijaya, Indonesian Rubber Research Institute

Q & A

3:15 – 3:25 pm

Break

3:25 – 5:00 pm

Session 2: Rubber and Climate Change Mitigation and Adaptation

Chairperson: Eric Gohet, CIRAD



Session 2.1 How can rubber systems contribute to climate change mitigation?



Effects of large scale tree plantations on local climate.
What potential for rubber tree plantations?

Y. Nouvellon (P. Thaler, F. Gay, P. Kasemsap, C. Chayawat, D. Satakhun, J. Sathornkich, E. Gohet, R. Lacote, P. Chantuma, J. Guillemot, G. le Maire, J.L. Stape, O. Campoe, and J-P. Laclau), CIRAD

Improving biodiversity in rubber plantations: a low input strategy to mitigate drought and sustain soil health

Dr Jessy, M.D., Rubber Research Institute of India

Product from Specialty Natural Rubber as an Alternative Material to Synthetic Rubber towards application of Naturally Sustainable Resources

Dr Fatima Rubaizah (Zameri, Siti Salina, Nik Intan, Nurul Hayati, Roslim, Rohani A.B., Dayzal D., Manroshan S, Mohamad Asri, Amir Hashim), Malaysian Rubber Board, Malaysia

Modelling the impact of rubber expansion on carbon stocks in the mountaineous of South-West China

Prof Sergey Blagodatskiy (M. Laub, X. Yang, R.Lang, C.Marohn, H.Liu, J. Xu, G. Candish), Institute of Agricultural Sciences in the Tropics (Hans-Ruthenberg-Institute), University of Hohenheim, Germany

Transcriptional regulation on rubber biosynthesis and comparative analysis between Hevea Brasiliensis and Hevea Species

Prof. Minami Matsui (Dr Yuko Makita) CATAS, RIKEN Center for Sustainable Resource Science Tsurumiku, Yokohama, Japan

Q & A

5:00 – 5:15 pm

Break

5:15 – 6:00 pm

Session 2.2 What is the role of rubber systems for adaptation?



Rubber Cultivation for enhancement of the environmental and social resilience to Climate Change in drier climates in Sri Lanka

Dr Lakshman Rodrigo, Rubber Research Institute of Sri Lanka

The role of rubber agroforestry in farming systems and its effect on households. Adaptation strategies to climate change risks?

Eric Penot (B. Chambon, J.Sainte Beuve) , CIRAD

Q & A

Day 3 – Thurs, 25 June 2020

2:00 – 3:25 pm

Session 3: Integration of Rubber in a broad Climate Change and Sustainability Policies, including Economic and Social Dimensions



Chairperson: **Datuk Dr Abdul Aziz b S A Kadir**, Secretary General, IRRDB

Natural Rubber a strategic material for a sustainable world

Salvatore Pinizzotto, IRSG

Towards circular bio-economy: a research initiative

Christopher Martius, CIFOR

The Sustainable Wood for a sustainable world initiative and its relevance to the rubber and climate change agenda

Michael Brady, CIFOR

FLEGT and other mechanisms to promote wood trade legality and avoided deforestation

Paolo Cerutti, CIFOR

Jurisdictional approaches to land use change and managing competition between rubber sector and other uses

Amy Duchelle, CIFOR

Feedback from a rubber sector perspective (from workshop presenters), Q&A

3:25 – 3:30 pm

Break

3:30 – 4:50 pm

Session 4: Rubber and Climate Change in the International fora



Chairman: **Salvatore Pinizzotto**, Secretary General, IRSG

Opportunities for natural rubber in international climate change negotiations and mechanisms

Vincent Gitz, Director, CGIAR Research Program on Forests, Trees and Agroforestry (FTA)

Opportunities for natural rubber in NDC (National Determined Contributions) and NAP (National Adaptation Plans) processes

Alexandre Meybeck, CIFOR/FTA

Climate Risks: What a 1.5-degree pathway for Rubber Fora

Dr Lekshmi Nair, Head of Economics and Statistics, IRSG

Feedback from a rubber sector perspective (from workshop presenters), Q&A

4:50 – 5:00 pm

Break

5:00 – 6:00 pm

Session 5: The Way Forward: Short term actions and long term plans (Panel Discussion)



Chairman: **Dr Lekshmi Nair**, Head of Economics & Statistics, IRSG

Panelists:

Jerome Sainte Beuve, Rubber Value Chain Correspondent, CIRAD

Datuk Dr Abdul Aziz b S A Kadir, Secretary General, IRRDB

Vincent Gitz, Director, CGIAR Research Program on Forests, Trees and Agroforestry (FTA)

Salvatore Pinizzotto, Secretary General, IRSG

Conclusions

Additional information



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denotes Video Recording is available for viewing