RHESSys Conference Schedule
1-2 May 2024
Version 1

*Times are Pacific Daylight Time (UTC−07:00)

Day 1 – Wednesday May 1st

9:00-9:10	**Welcome remarks & meeting logistics**
9:10-9:55	**Keynote: RHESSys Pieces: Seeds, Roots, Stems and Branches** Larry Band, University of Virginia
9:55-10:00	Break
10:00-10:15	**Precipitation variability effects on dryland carbon sequestration depend on resource availability** Jianning Ren, National University of Singapore
10:15-10:30	**MSR in the City: sub-patch surface water sharing for simulating trees as green infrastructure** Rachel Torres, Cal-Poly Humboldt
10:30-10:45	**Incorporating the effects of plant dimensions and species tolerances into RHESSys modeling** Antoine Randolph, US Forest Service (external)
10:45-11:00	**Comparative Hydrological Dynamics and Water Security in Sundarijal Watershed: A RHESSys Modeling Approach for Broadleaf and Conifer Forests** Tejendra Kandel, University of Virginia
11:00-11:10	Break
11:10-11:17	**Modeling the effects of wildfire on hydrologic processes in a mixed pine forest in the Pacific Northwest** Hyunwoo Kang, Oregon State University
11:17-11:24	**Calibration of RHESSys with Soil Moisture Data and the Performance of RSS Soil Inputs** Carlos Quintero, ORISE
11:24-11:31	**Coupling RHESSys to HEC-RAS 2D** Daniel Pelletier, University of Virginia
11:31-11:38	**Ecohydrological Modeling with RHESSys: A new guide for learning how to model with RHESSys** Ryan Bart, University of California, Merced
11:38-11:45	Break
11:45-12:00	**GEE-based Platform For Preparing Spatial Inputs For RHESSys** Mingliang Liu, Washington State University
12:00-12:15	**RHESSys-Preprocessing & RHESSysIOinR: Overview and Demonstration of R Packages used to setup and run of RHESSys in R** Will Burke, University of Nevada, Reno

12:15-12:30 **Streamlined R tools for preparing RHESSys Model Inputs**
Motasem Abualqumboz, Utah State University

12:30-12:45 **Investigating changes in blue/green water partitioning under drought through modelling experiments**
Clare Stephens, Western Sydney University

Day 2 – Thursday May 2nd

9:00-9:05 **Meeting Opening**

9:05-9:30 **RHESSys as a virtual laboratory - recent advances and new directions**
Naomi Tague, University of California, Santa Barbara

9:30-9:45 **Changes and risks of water retention and carbon sequestration capacity in the Yangtze River Basin under climate and permafrost change**
Hui Peng, Ocean University of China

9:45-10:00 **Impacts of reduced domestic water use on stream water quality in suburban watersheds**
Ruoyu (Roy) Zhang, University of Virginia

10:00-10:05 Break

10:05-10:12 **Installation Guide for RHESSys on Linux Executed Over Windows Using WSL**
Jorge García Hernández, Instituto Pirenaico de Ecología

10:12-10:19 **The use of RHESSYS in the Pyrenees: Land management and implications on climatic and vegetation variables**
Javier Zabalza-Martínez, Instituto Pirenaico de Ecología

10:19-10:26 **Modelling ecohydrological responses to climate change in a wet high-altitude sub-alpine headwater catchment in Eastern Himalaya**
Manish Kumar, University of Birmingham

10:26-10:33 **Incorporating surface and subsurface characteristics for improving hydrological prediction in a managed Sierra Nevada catchment**
Shishir Basant, Texas A&M University

10:33-10:40 Break

10:40-10:55 **Interactions between annual grass invasion and climate variability: effects on N export in drylands**
Maxwell Kay Strain, University of Nevada, Reno

10:55-11:10 **Modeling the co-benefits of mechanical thinning on forest structure and hydrological refugia**
Louis Graup, University of California, Santa Barbara

11:10-11:25 **What factors regulate the post-fire hydrologic response in a mountainous terrain?**
Moazzam Rind, Washington State University

11:25-11:40 **Using RHESSys to help California achieve carbon neutrality**
Ryan Bart, University of California, Merced

11:40-11:45 Break

11:45-12:45 **Panel Discussion**
Participants TBD

12:45-12:50 **Meeting wrap up**