RHESSys Conference Schedule
1-2 May 2024
Version 2

*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 (Lighting)**
Hyunwoo Kang, Oregon State University

11:17-11:24   **Calibration of RHESSys with Soil Moisture Data and the Performance of RSS Soil Inputs (Lighting)**
Carlos Quintero, ORISE

11:24-11:31   **Coupling RHESSys to HEC-RAS 2D (Lighting)**
Daniel Pelletier, University of Virginia

11:31-11:38   **Ecohydrological Modeling with RHESSys: A new guide for learning how to model with RHESSys (Lighting)**
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

12:45-1:15   **Networking (optional)**

Day 2 – Thursday May 2nd

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

9:05-9:20   **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

9:20-9:35   **Interactions between annual grass invasion and climate variability: effects on N export in drylands**
Maxwell Kay Strain, University of Nevada, Reno

9:35-9:50   **Modeling the co-benefits of mechanical thinning on forest structure and hydrological refugia**
Louis Graup, University of California, Santa Barbara

9:50-10:05   **Impacts of reduced domestic water use on stream water quality in suburban watersheds**
Ruoyu (Roy) Zhang, University of Virginia

10:05-10:10   Break

10:10-10:35   **RHESSys as a virtual laboratory - recent advances and new directions**
Naomi Tague, University of California, Santa Barbara

10:35-10:42   **Installation Guide for RHESSys on Linux Executed Over Windows Using WSL (Lighting)**
Jorge García Hernández, Instituto Pirenaico de Ecología

10:42-10:49   **The use of RHESSYS in the Pyrenees: Land management and implications on climatic and vegetation variables (Lighting)**
Javier Zabalza-Martínez, Instituto Pirenaico de Ecología

10:49-10:56   **Modelling ecohydrological responses to climate change in a wet high-altitude sub-alpine headwater catchment in Eastern Himalaya (Lighting)**
Manish Kumar, University of Birmingham

10:56-11:03   **Incorporating surface and subsurface characteristics for improving hydrological prediction in a managed Sierra Nevada catchment (Lighting)**
Shishir Basant, Texas A&M University

11:03-11:15   Break

11:15-11:30   **Utilizing RHESSys in Coastal Areas: Challenges Arising from Running the Model in Flat Terrains and Integration with a Coastal Surge Model (ADCIRC)**
Hanne Borstlap, University of Virginia

11:30-11:45	**What factors regulate the post-fire hydrologic response in a mountainous terrain?** Moazzam Rind, Washington State University
11:45-12:00	**Using RHESSys to help California achieve carbon neutrality** Ryan Bart, University of California, Merced
12:00-12:05	Break
12:05-1:05	**Panel Discussion and Q&A**
1:05-1:10	**Meeting wrap up**
1:10-1:40	**Networking (optional)**