

ECOSTRESS Science and Applications Team Meeting

Location: Courtyard by Marriott, Pasadena - Mission Room
Address: 180 N Fair Oaks Ave, Pasadena, CA 91103

Monday, Sep 30, 2024			
Time (Pacific)	Title	Speaker	
8:00-9:00	Check in / Networking / Coffee	No Host	Start
9:00 - 11:00	Welcome to ECOSTRESS team meeting	Simon Hook (10 minutes)	
	HQ update	Karen St Germain/ Jamie Wicks (TBD) (10 minutes)	
	HQ update	Mike Obland (10 minutes)	Mission Updates
	HQ update	Keith Gaddis (TBD) (10 minutes)	HQ Update
	Geolocation talk (how to interpret geolocation meta-data)	Mike Smyth/Veljiko Jovanovic (10 minutes)	
	5 minute talk + Panel Discussion (ECOSTRESS Team) Q & A	ECOSTRESS Team (Mike Smyth, Veljiko Jovanovich, Glynn Hulley, Gregory Halverson, Kerry C-N, Dana Freeborn)	
11:00-11:30	BREAK - 30 min		
11:30 - 12:45	Statistical analysis of ECOSTRESS time series to monitor Solfatara volcano (Naples, Italy) unrest phase from 2021-2024	Fabrizia Buongiorno (12 minutes)	
	Collection 2 validation	Zoe Pierrat (10 minutes)	
	LST Sharpening Tool / Burn Risk Map Talk	Quentin Dehaene / Glynn Hulley (10 minutes)	
	Pangea	Elsa Ordway (10 minutes)	
	ARID	Andrew Feldman (10 minutes)	
	DISCUSSION (15 minutes)		
12:45-2:15	LUNCH BREAK - 1h30 min		
2:15 - 3:45	ECOSTRESS calibration and bias correction by in-orbit comparison with CrIS and IASI hyperspectral sounders	David Wethey (12 minutes)	Science Team Talks
	Leveraging thermal remote sensing information for tracking agricultural productivity and water uses in the US drylands	Kaiyu Guan (12 minutes)	
	Multi-satellite data fusion for improved field scale evapotranspiration mapping on GEE	Yun Yang (12 minutes)	
	Diffuse Light controls on Evapotranspiration - A Changing View	Allison Steiner (12 minutes)	
	Internship presentation	Ashley Agatep (10 minutes)	
	DISCUSSION (20 minutes)		
3:45 - 4:00	BREAK - 15 min		
4:00-5:15	Group Discussion (Topics:1) increasing use of ECOSTRESS data in applications / end users 2) ECOSTRESS lectures ; 3) how ECOSTRESS feeds into SBG 4) Increase participation of early career people in thermal	Moderators: Zoe Pierrat, Federico Rabuffi, Quentin Dehaene, Simon Hook, Kerry Cawse-Nicholson	
5:15-5:30	Group Discussion Summary Recap		
6:30	NO-HOST SOCIAL/Dog Haus Biergarten https://oldpasadena.doghaus.com/		

Tuesday, Oct 1, 2024			
Time (Pacific)	Title	Speaker	
8:00-9:00	Check in / Networking / Coffee	No Host	Start
9:00 - 10:20	The Usefulness of ECOSTRESS in the U.S. Corn Belt.	Emma Safrane/ Brian Hornbuckle (12 minutes)	
	Evaluating ecosystem drought vulnerability and several modulating factors using ECOSTRESS (Competed Science Team Talk)	Benjamin Poulter/Andrew Feldman (12 minutes)	
	Towards Enhancements in ECOSTRESS Products for Quantifying Ecosystem ET/Components for Key Southern US Forests – Field Data for ECOSTRESS ET Validation / ECOSTRESS Remote Information and Eddy Flux In-Situ Evapotranspiration Data Correlation Algorithm Development for Forest Management DSS	Devendra Amataya and Sudhanshu Panda (10 + 7 min)	
	I.C.E. C.R.E.A.M.: Integrating Communication of ECOSTRESS into Community Research, Education, Applications, and Media	Josh Fisher (12 minutes)	
10:20-10:40	DISCUSSION - 20 min		
10:40-11:00	BREAK - 20 min		
11:00 - 12:10	Ground Urban Heat Island: Strengthening the Connection between Spaceborne Thermal Observations and Urban Heat Risk Management	Leiqiu Hu (12 minutes)	Science Team Talks
	Fine resolution characterization of water stress in New York City urban forests with ECOSTRESS	Nick Steiner (12 minutes)	
	Correction of Surface Temperature Errors in ECOSTRESS and Landsat 8/9 OLI Data Products Using Simultaneously Acquired 1.38-micron Band Images	Bo-Cai Gao (12 minutes)	
	Open-Science Development of Thermally Sensitive Evapotranspiration Products for the ECOSTRESS and SBG Missions	Gregory Halverson (12 minutes)	
	DISCUSSION - 20 min		
12:10-1:10	LUNCH BREAK - 1h00 min		
1:10-2:40	Workshop (1h, 30 min)	Gregory Halverson & Claire Villanueva-Weeks & LP DAAC	
2:40 - 3:00	BREAK - 20 min		
3:00-5:00	ECOSTRESS / EMIT joint session	Christine Lee	
5:00	Joint ECOSTRESS/EMIT Happy Hour - King's Row Gastropub		

Wednesday, Oct 2, 2024			
Time (Pacific)	Title	Speaker	
8:00-9:00	Check in / Networking / Coffee	No Host	Start
9:00 - 10:15	Fire effects on Evapotranspiration in Great Basin Aridlands	Scott Allen (12 minutes)	Science Team Talks
	Wildfire-Driven Changes in Coastal Water budgets using ECOSTRESS	Amanda Lopez (12 minutes)	
	ECOSTRESS LST and ET estimates in thinned and non-thinned ponderosa pine forests in Arizona	Temuulen Sankey (12 minutes)	
	OpenET: Supporting Sustainable Water Management with Earth Observations & Open Science	Forrest Melton (10 minutes)	
<i>DISCUSSION - 20 min</i>			
10:15-10:35	<i>BREAK - 20 min</i>		
10:35-12:30	LIGHTNING TALKS (5 minutes) + POSTERS	Lightning Talks + Posters	
12:30-12:35	ADJOURN	Simon Hook (10 min)	
	Close		

	Lightning talks:	Title:
1	Kimberley Miner (5 min)	Applied sciences and social benefit of combined satellite products
2	Eli Estey (5 min)	Monitoring Tree Growth from Space Using ECOSTRESS and SMAP
3	Ashley Agatep (5 minutes)	Environmental justice work
4	Margarita Rivera (5 min)	Evaluating the impact of mechanical and prescribed fuel treatments on vegetation conditions using ECOSTRESS
5	Andrew Alamillo (5 min)	ECOSTRESS Geolocation Correction code
6	Sydney Posch (5 min)	Examining fire maps using ECOSTRESS data, and looking deeper into plant fungal 'mycorrhizae' relationships and future research
7	Stephanie Schollaert Uz (5 min)	Building Climate Resilience in Prince George's County, Maryland
8	Gabriele Bramati (5 min)	Airborne hyperspectral TIR over the cryosphere: application over Alpine Glaciers.
9	Ahmed Omar, Mohamed Ahmed (5 min)	Mapping Near-Surface Natural Groundwater Discharge in Arid Fossil Aquifers Using ECOSTRESS Data: A Case Study from Egypt

Posters:	Title:
Gabriela Shirkey	An ISS synergy to detect biodiversity from above
Nimrod Carmon	EMIT-ECOSTRESS Physics-Informed Data Fusion for Better Estimation of Fire Risk
Gabriel de Oliveira	TBD
Glynn Hulley	Mapping and identifying urban heat vulnerability with ECOSTRESS
Helen Poulos	Springpulse: Comparing tools for estimating freshwater spring discharge in Texas
Madeleine Pascolini-Campbell	Remote sensing applied to fine-scale wildfire prediction
Jake Longenecker	Orbital Coral Reef Monitoring: Precision Thermal Microclimates