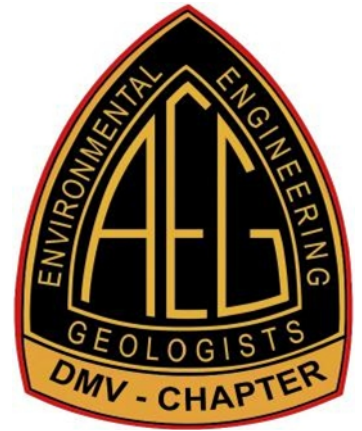
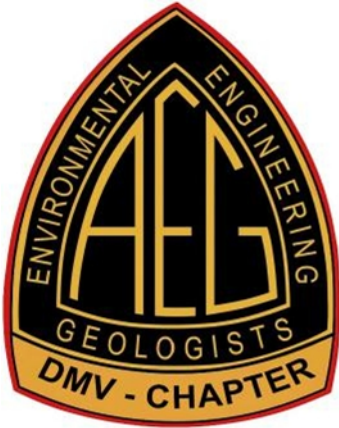


Association of Environmental & Engineering Geologists

www.aeqweb.org

D.C. - Maryland - Virginia (DMV) Chapter

<https://aeqdmv.wixsite.com/website>



Notice of Meeting

Thursday, November 20, 2025

Presentation Category:
Landslides

Topic:

Hindcasting Hurricane Helene

Presenter:

Thomas Stanley
NASA
Goddard Space Flight Center

Abstract

On September 26, 2024, NASA's global landslide nowcast showed the potential for landslides in the southern Appalachian mountains on the following day. Most (57%) landslides reported during and after Hurricane Helene were in areas with a high (>50%) probability of landslide occurrence. Nevertheless, the extent of the damage encouraged a review of what changes could be made to improve landslide forecasting in the eastern United States. The first and most obvious task was to investigate whether high-resolution precipitation data would outperform the coarser global dataset currently used to produce the global landslide nowcast.

In this case study, the potential improvement from high-resolution forecasts was assessed by comparing four precipitation datasets against ground-based observations, as well as the distribution of landslides caused by Hurricane Helene. The results conclusively showed that high-resolution forecasts could have predicted more (84%) of the reported landslides than the currently running model..



About the Presenter:

Thomas Stanley Scientist

Thomas Stanley graduated from the University of Maryland in 2014 with a Masters in Geospatial Information Sciences. In the years since, he has collaborated with other scientists at Goddard Space Flight Center to develop static and dynamic models of landslide hazard at global and regional scales. These models rely on satellite-based estimates of precipitation, as well as remotely sensed observations of other variables.

AEG DMV Sponsors



Please reserve your seat by **12 pm Monday, November 17, 2025**
Visit our website & E-Pay System

<https://www.aeg-bwh.org/ticketpurchase>

Meeting Information

Date/Time:

**Thursday, November 20, 2025
6:00-8:30 PM**

Location:

**Amphora Diner Deluxe
1151 Elden Street
Herndon, VA 20170**

Cost (dinner and meeting):

Members:	\$45
Non-members:	\$50
Retiree Members:	\$30
Students:	\$20
Virtual Meeting	\$10

Agenda:

6:00-6:45 PM	Social
6:45-7:30 PM	Dinner
7:30-8:30 PM	Presentation
7:30-8:30 PM	Presentation (Virtual Attendees)

Virtual (Hybrid) Meeting Attendance (via Zoom)

(Virtual attendees will be sent a meeting attendance link via email prior to the meeting presentation).

**RIVERS, RAILS,
ROADS & ROCKS**



AEG | Chattanooga, TN

Moving Environmental & Engineering Geology Forward

AEG DMV - Virtual Meeting Registration Form

November 2025 Meeting

Name:

Email Address:

Contact Information

Address:

Address:

Address:

Are you an AEG Member Y/N:

Are you Interested in receiving AEG DMV Chapter Meeting Notices Y/N?

Please email this completed Virtual Meeting Registration form to: aegdmvsecretary@gmail.com