



PSL*advance*



— FALL / WINTER 2025 —

The Latest News

A big step towards improving coastal flooding forecasts



While predicting coastal floods has typically been limited to a few days in advance, a team of PSL and National Ocean Service researchers - led by John Albers of PSL's Atmosphere-Ocean Processes and Predictability division - have demonstrated for the first time that operational forecast systems can be used to predict unusual coastal water levels several weeks in advance.

The findings of their study published in the European Geosciences Union's *Ocean Science* could be used to improve flood risk forecasting, giving coastal communities more time to prepare.

[Read more about the study](#)

PSL-developed drought tool adopted by National Weather Service



An innovative, experimental drought tool developed in the Physical Sciences Laboratory will

now be supporting the National Weather Service (NWS) drought products that decision-makers rely on in times of water shortage.

The Evaporative Demand Drought Index (EDDI), which measures the “thirst of the atmosphere” and was developed by PSL/CIRES’ Mike Hobbins of the Hydrology Applications Division, has been transitioned to the NWS’s Climate Prediction Center as a new drought-monitoring and early warning guidance tool.

[Read more at NOAA Research](#)

PSL presenters at AGU25 in New Orleans



The annual meeting of the American Geophysical Union (AGU) is being held the week of December 15th in New Orleans, Louisiana. AGU25 is a leading Earth and space science conference attended by thousands of scientists, educators, and policymakers. Several researchers from PSL will be in attendance to present on their work.

[See the roster](#)

Awards



Alexander recognized as 2025 Highly Cited Researcher

Recently-retired PSL meteorologist and oceanographer Michael Alexander was recognized as a highly-cited researcher in the cross-field category by Clarivate, a data insights company.

[Learn more from Clarivate](#)

Publications

Publication Report - July through September 2025

See a list of peer-reviewed products from lead and contributing PSL authors from July through September of this year.

For a full list of PSL publications from this and past years, visit the [PSL Publications](#) database.



[View the report \(PDF\)](#)



ABOUT PSL

The Physical Sciences Laboratory (PSL) is one of ten NOAA Research Laboratories and one of four labs co-located in the David Skaggs Research Center in Boulder, Colorado. PSL conducts research to advance the prediction of water availability and extremes.

psl.noaa.gov

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