



The UNIVERSITY of OKLAHOMA.
Cooperative Institute for Mesoscale Meteorological Studies
(CIMMS)

June 25, 2019

Hello Broadcast Meteorologists!

We are seeking broadcast meteorologists to provide input for the development of a new severe weather warning paradigm. If you are interested, please considering applying to participate in the 2019 Hazard Services - Probabilistic Hazard Information (HS-PHI) Project in NOAA's Hazardous Weather Testbed (HWT). The HWT is a joint project of the NOAA National Weather Service and the NOAA National Severe Storms Laboratory to help foster collaboration between research and operations to test and evaluate emerging technologies and science. This year we are funded to test a new warning paradigm, known as PHI (similar to that shown in the animation of FACET #4 www.nssl.noaa.gov/projects/facets/). A summary of our project is on the second page of this letter.

Our project will take place during the weeks of October 7-11, October 21-25, and October 28-November 1 in Norman, Oklahoma. We will be selecting two participants per week (six total). Travel expenses are paid or reimbursed to the extent possible per State of Oklahoma travel rules. As a condition of receiving the travel stipend, those who are selected to participate in the HWT in 2018 will be asked to agree to allow the researchers to use data collected in the experiment for research and development purposes. More details about the research participation will be provided to those who are selected.

If you would like to apply, please apply online at: <https://forms.gle/TqT4JJx7ZzooZAqF8>
You will need to include a one-page resume as part of the application form.

Please complete the application by **August 9, 2019**, as candidates will be selected shortly thereafter so that we can begin travel arrangements. We are seeking enthusiastic people willing to work through simulated severe weather cases in a mock television studio environment. If selected, you will also contribute in discussions/surveys concerning how you would use this experimental information to do your job, thus helping us develop a new severe weather warning paradigm. Broadcast meteorologists play a critical role in the warning process, and your input is valuable.

Sincerely,

Kodi L. Berry, Ph.D.
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The Hazard Services - Probabilistic Hazard Information Project in NOAA's Hazardous Weather Testbed

Who - Broadcast meteorologists serve a critical and complex role in the communication of weather warnings. We are looking for a diverse set of broadcast meteorologists (6 in total). We hope that everyone who feels interested will apply.

When – October 7-11, October 21-25, and October 28-November 1

Travel periods: Sunday, Friday afternoon

What - The main objective of this HWT PHI project is to learn how the continuous flow of probabilistic information impacts broadcast meteorologists and their decision making. Broadcast participants will perform typical job functions under a simulated television studio environment as they receive probabilistic forecasts for severe and convective hazards (severe wind/hail, tornado, lightning) during displaced realtime events. Researchers will study how the broadcast meteorologists interpret, use, and communicate the probabilistic information. We are interested in coverage decisions, including when to run crawls, post to social media, interrupt commercials, and interrupt programming. This HWT project will help us as researchers learn participants' needs during the warning process under this potential new paradigm.

Why - The introduction of probabilistic information introduces a number of complex issues for broadcast meteorologists. The project investigators hope to gain insights into the following:

- Update frequency of warnings
- Probabilistic thresholds for coverage decisions
- Interpretation and communication of warnings and probabilities
- Technological challenges

For more information, see our website and recent conference presentations:

[KPHI TV](#)

[AMS 9th Conference on Transition of Research to Operations](#)

[AMS 13th Symposium on Societal Applications: Policy, Research and Practice](#)