

# Basics of Dual Polarization Doppler Radar

Hayden Frank  
NOAA / National Weather Service  
Taunton, MA

A Dual Polarization (Dual Pol) radar is scheduled to be installed at the National Weather Service's Taunton radar site sometime next year. Hayden will discuss the many advantages that Dual-Pol technology will offer. Some of these include: a better depiction of the rain-snow line in winter storms; differentiating hail stones from rain drops; improved precipitation estimation; and even debris inside tornadoes.

## **PRESENTER'S BIO**

Hayden Frank is a senior meteorologist with the National Weather Service in Taunton, MA. He is the Doppler Radar and Fire Weather Focal Points at the office. He also works on various other programs, including StormReady, research, and many different outreach projects.

Hayden was born in Philadelphia, PA and always had a love for meteorology from a very young age. He graduated from the Pennsylvania State University in 1998 with a Bachelor's Degree in Meteorology. After graduation, Hayden accepted a temporary job with the National Weather Service in Tulsa, OK. Six months later, he became a permanent National Weather Service employee with the office in Wichita, KS before transferring to Taunton in 2003. Hayden loves all kinds of weather, but always had a special interest in snowstorms, so living in New England is a perfect fit for him. In November 2008, he married Sara Vecchio Frank in Cassenovia, New York. The couple resides happily in Brookline, Massachusetts and had their first child last summer.