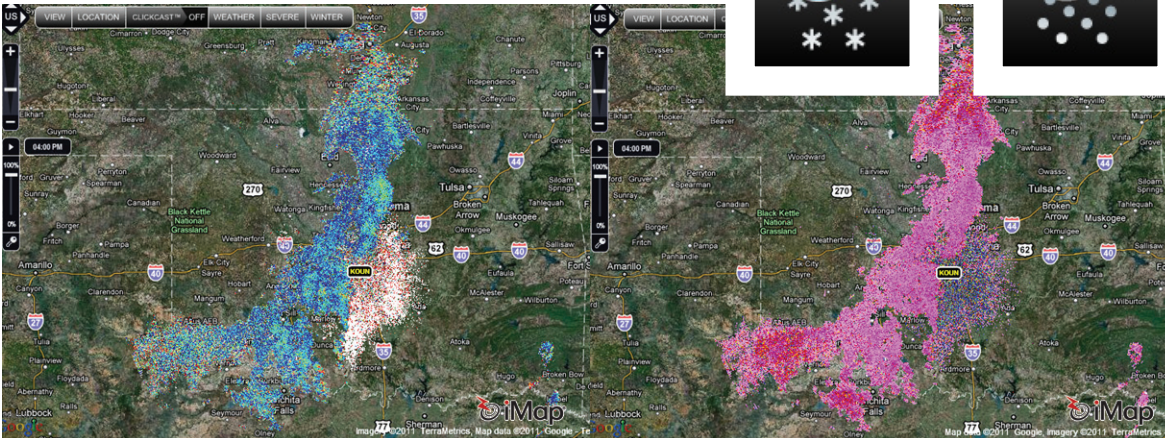


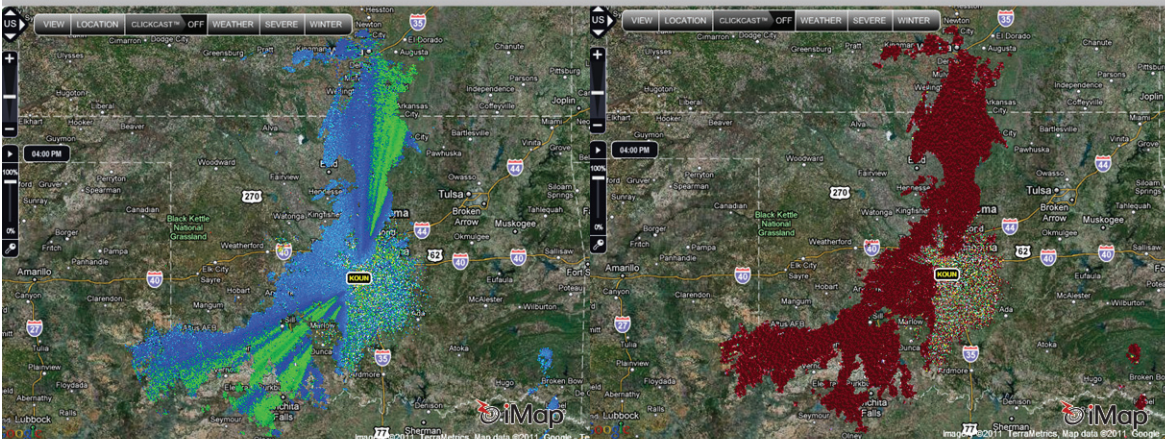


Dual-Pol Radar Solution



Z_{DR} Differential Reflectivity

Rho_{HV} Correlation Coefficient



PhiDP Differential propagation phase shift

KDP Differential propagation phase shift

POLARIS

Boosting the Accuracy and Precision of Your Precipitation Forecasts

Dual-Pol is set to greatly enhance the nation's broadcasters' ability to improve television weather programming by offering highly accurate, crisp depictions of precipitation types, such as hail, snow and rain as well as tomadic "debris balls". Dual-Pol radars are becoming operational throughout the United States during the course of 2011

- The WDT POLARIS (Polarimetric Radar Identification System) solution revolutionizes the way data is identified over radar systems.
- Offering 8X the resolution of tradition NEXRAD Information Dissemination Service (NIDS) systems, PolarIS provides 2X greater accuracy for determining precipitation amounts.

POLARIS Benefits

Current U.S. weather radars transmit and receive horizontally polarized signals. This maximizes the radar's sensitivity to liquid hydrometeors

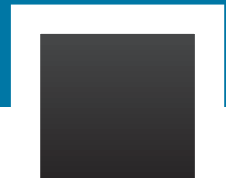
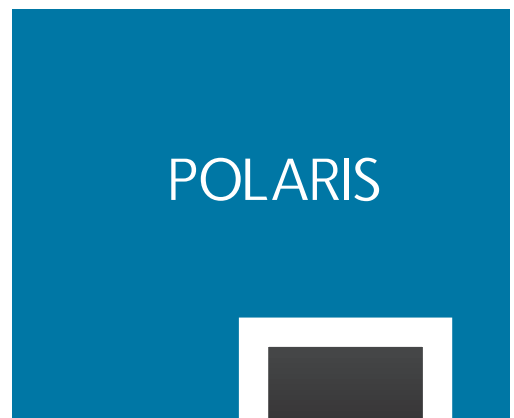
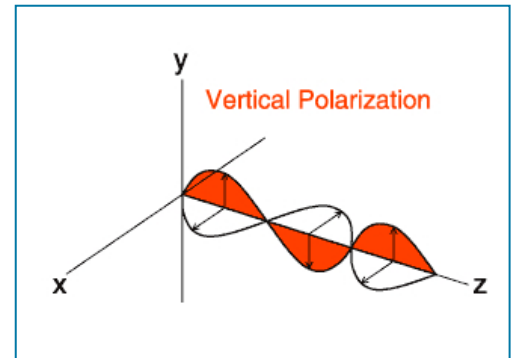
Dual polarimetric weather radars transmit and receive both horizontally and vertically polarized signals. With the proper signal processing hardware and associated software, this provides significantly improved accuracy of radar-based hydrometeor measurements, and the ability to classify precipitation more effectively as rain, snow, hail.

POLARIS Features

The basic principle of Dual-Pol operations is that the dual polarimetric data provides information about the shape and homogeneity of hydrometeors within a data volume. Combining this information with statistical analysis of radar data allows for classification of a range of hydrometeor species. Knowing hydrometeors types makes it possible to greatly enhance the quality control measures of radar data, and improve radar-derived products such as precipitation estimation.

About Weather Decision Technologies, Inc. (WDT)

WDT's iMap® services provide dynamic interactive and mobile weather mapping solutions for the world's leading local media and Internet companies. WDT is a global leader in providing state-of-the-science weather detection, nowcasting, and forecasting systems.



Contacts

Mike Gauthier, Sr. VP, Sales
E: mgauthier@wdtinc.com | M: 405.618.2239



Weather Decision Technologies
Norman, OK | info@wdtinc.com | www.wdtinc.com
rev. 06.17.11