

Using Satellite Imagery to Track Blowing X on the High Plains

Bill Line

Physical Scientist, NOAA/NESDIS/Center for Satellite Applications and Research

3925A West Laporte Ave., Fort Collins, CO 80521

970-279-1832

bill.line@noaa.gov

The High Plains are no stranger to strong winds, which often loft aerosols from the surface, posing significant challenges in forecasting and detection. These conditions, ranging from blowing snow in the north to dust in the south and wildfire smoke throughout, can severely restrict visibility and pose life-threatening risks. Accurate and timely observation is therefore vital. This presentation introduces new satellite imagery products developed for GOES ABI and JPSS VIIRS, designed to detect these often subtle aerosol features. Additionally, practical tips for enhancing aerosol detection with satellite imagery will be provided.