

## Top 5 reasons why depolarization is important

When is a ceilometer more than a ceilometer? When it provides depolarization. Here are 5 reasons this capability is important for understanding and forecasting weather conditions.

Enables differentiation of liquid and solid cloud and precipitating particles

Including:

- Cloud phase – such as identifying atmospheric icing and other meteorological studies
- Precipitation type such as snow and rain

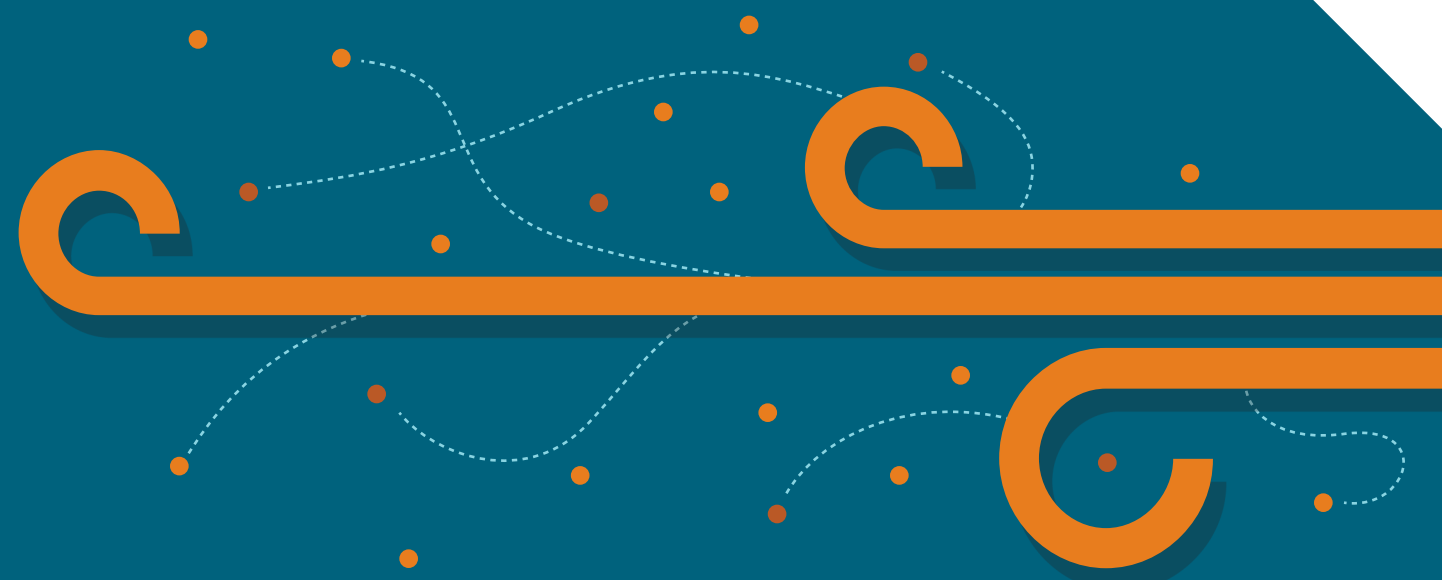


### Detects melting layer

For easy identification of the melting layer height location; enables icing condition warnings and snow line estimates in areas of complex topography

Allows tracking of dust, sand and volcanic ash layers aloft

For greater awareness of hazardous air conditions



### Provides improved capability to resolve mixed aerosol layers in the planetary boundary layer

Also enhances understanding of local phenomena such as the sea breeze cycle

### Better understanding of atmospheric conditions

For deeper insights, in-situ awareness and actionable information

