

METEOROLOGY

1. **DESCRIPTION**: This event will test the team's knowledge of conducting investigations and using appropriate technology to build an understanding of Severe Storms.

TEAM OF UP TO: 2

APPROXIMATE TIME: 50 min.

2. **EVENT PARAMETERS**: Must bring writing instruments. Teams may bring one 8.5" x 11" two-sided page of notes containing information in any form from any source. Event Supervisors will provide a hands-on event with all necessary items, maps, charts, data sets, materials, questions, and response sheets for participants to complete stations.

3. **THE COMPETITION**: This event can be run as sit-down test or a station format. Teams will rotate through stations that assess any or all of the following topics:

a. Water cycle (processes of evaporation, condensation, precipitation, and run-off)

b. Weather instruments (thermometer, barometer, rain gauge, hygrometer, sling psychrometer, wind vane, anemometer, weather balloon, radar, satellite)

c. Types of clouds and their relationships to weather conditions

d. Using weather maps to identify weather conditions

e. The following types of severe storms: blizzard, derecho, dust devil, flood, haboob, hail, hurricane, severe winter weather, thunderstorm, tornado, and water spout.

f. Severe weather safety

4. **SCORING**: Points will be awarded for the accuracy of responses. Ties will be broken by the accuracy or quality of responses to pre-selected questions chosen by the event leader.