Weather Permitting

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

2. **ESSENTIAL STANDARDS ALIGNMENT**: 2.E.1, 5.E.1

3. **TEAM OF UP TO**: 2

4. **MAXIMUM TIME**: 60 min.

5. **TEAMS**: Must bring writing instruments. No other resources are allowed.

6. **EVENT LEADERS**: Will provide a hands-on event with all necessary items, maps, charts, data sets, materials, questions, and response sheets for participants to complete stations.

7. **SAFETY REQUIREMENTS**: None

8. **IMPOUND**: No

9. **THE COMPETITION:** This event can be run as a sit-down test or in a station format. Teams will demonstrate knowledge in any or all of the following topics:
   a. How the Sun drives the 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. How the jet stream and ocean currents influence local weather
   d. The factors that affect the climate of a region
   e. How the motions of air masses change the weather conditions
   f. The types of clouds and their relationships to weather conditions

11. **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.

12. **EVENT RESOURCES**:
    See the Event Resources tab on our website at www.sciencenc.com for instructions, videos and more.