



WEATHER SAFETY WARMUP

WEBINAR SERIES

HOUSEKEEPING

- This webinar is being recorded and will be sent out shortly after the webinar
- Have a question? Use the chat box and we will get to the question at the end of the session
- Want to learn more? We have additional sessions every month!
- For those interested in a certificate of attendance, please let us know in the chat or reply to the follow up email
- You can also provide feedback, suggest a topic or ask a question by emailing us at info@earthnetworks.com





SEVERE WEATHER ALERTING 101



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AGENDA

- Severe Weather
- Types of Severe Weather
- What is Severe Weather Alerting?
- Severe Weather Alerting Goal
- Popular Alerting Variables
- Recommended Alerting Threshold
- Types of Alerts
- Typical Recipients of Alerts
- Practical Examples
- Key Takeaways

PRESENTERS

CHAD MERRILL

Senior Meteorologist at Earth Networks

DAVID D. CECIL

General Manager at Siwanoy Country Club



SIWANOY COUNTRY CLUB



LOCATION

Bronxville, New York

DETAILS

- Historic private member-owned club
- Established in 1901
- Includes a clubhouse boasting dining rooms, an expansive terrace and guest suites
- Boasts swimming pool facilities and year round tennis amenities
- A great walking course



SEVERE WEATHER

Any form of weather that impacts the safety of people, business continuity and operational efficiency.





TYPES OF SEVERE WEATHER











Lightning



Severe Storms



High Winds



Tropical Cyclones



Hail



Heat Waves



Snow & Extreme Cold



Sleet & Freezing Rain

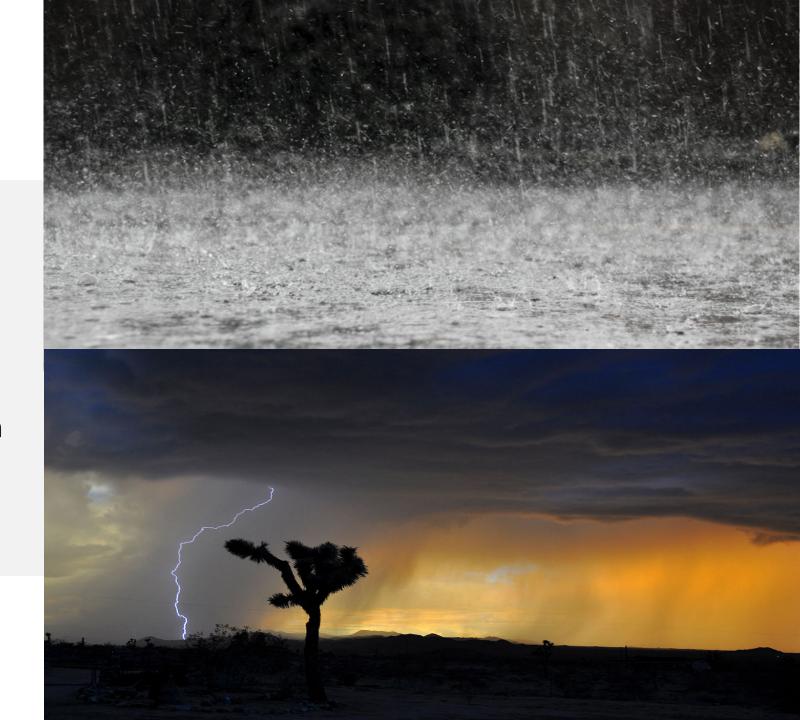


Drought



SEVERE WEATHER ALERTING

Sharing information on severe weather threats when predetermined thresholds are reached.



THE GOAL OF ANY SEVERE WEATHER ALERT

MINIMIZE

Property Damage



Human Risk



Business Disruption





POPULAR ALERTING VARIABLES

- Lightning
- Severe Thunderstorms
- Rain Amounts and Rain Rates
- Wind Chills and Heat Indices
- Temperatures and Temperature Rates

- Humidity and Dew Point
- Humidity Rates
- Atmospheric Pressure
- Wind Speed
- Wet Bulb Temperature

Note: Severe weather variables to alert on depends on the threats unique to your geographical location, business type, stakeholders, activity and exposure.



RECOMMENDED ALERTING THRESHOLD

Weather Variable	Recommended Threshold
Lightning	Within 6 & 10 miles
Severe Thunderstorms	Earth Networks DTAs and NWS Warnings
Rain Amounts and Rain Rates	2-3 inches/day and 1 inch/hour rates
Wind Chills and Heat Indices	Below 0 degrees and Above 100 degrees
Temperatures and Temperature Rates	45 and 100 degrees
Humidity	Exceeds 80% or 5% per hour
Sustained Wind Speed	Exceeds 20 mph
Wind Gust Speed	Exceeds 40 mph
Wet Bulb Temperature	Below 30 degrees



TYPES OF ALERTS



IN PERSON

- Requires a dedicated staff
- Limited range and response time
- Staff at risk when delivering alert



VISUAL ALERTING - STROBES

- Automated, effective within line of sight
- Works best with a detection system to remove false alerts
- Very effective with an audible alerting device
- Optimal for low noise spots; a pool or indoors



AUDIBLE ALERTING - HORNS

- Automated, wide range (over 500 yards) and effective
- Works best with a detection system to remove false alerts
- A must have for big outdoor facilities like parks, golf clubs and athletic venues



MOBILE ALERTING – EMAIL, TEXT

- Email, text or push alerts from apps
- Effective severe weather planning and monitoring tool
- Works best as an alerting tool for key stakeholders and admins on the approach of potential severe weather



SYSTEM ALERTING

- Alerting using existing announcement or display system
- Varies from case to case
- Requires integration with real time weather data or human input



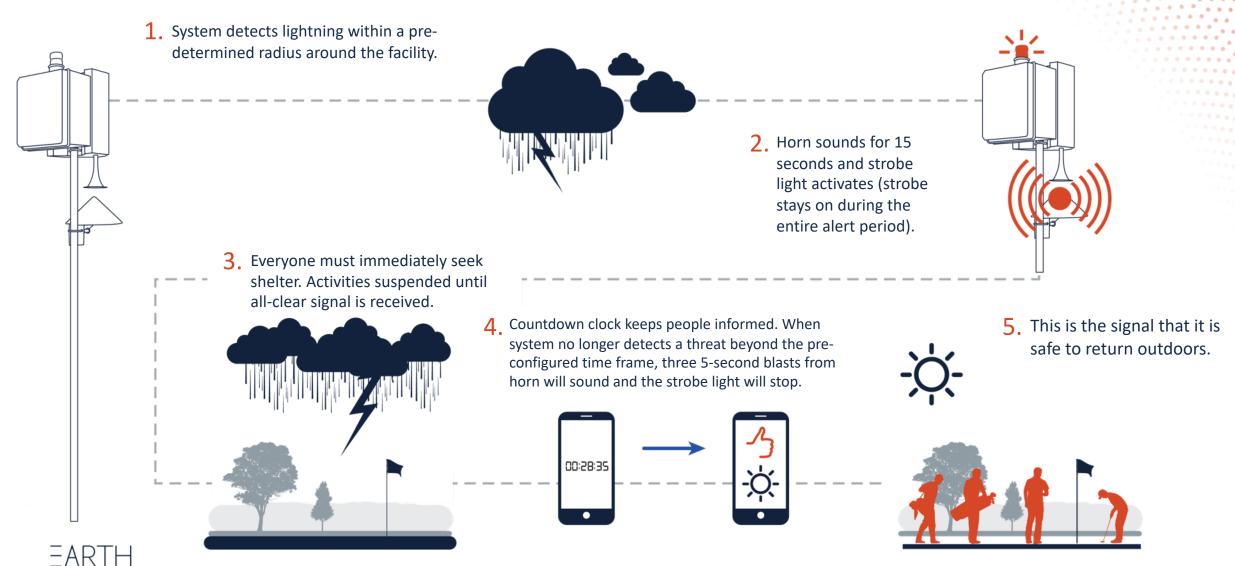
TYPICAL RECIPIENTS OF ALERTS

- Key Weather Safety Admins
- General Staff
- Patrons/Students/Visitors
- General Public
- Emergency Departments





PRACTICAL EXAMPLE - AUTOMATED LIGHTNING ALERTING



PRACTICAL EXAMPLE: A SCHOOL LOCATION

OUTER – 25 Miles

ALERT Email warning sent to key admin: Public Safety Director / AD

ACTION Monitor the situation (Take note of potential severe weather movement)

MIDDLE – 15 Miles

ALERT Text & email alerts are sent to key

stakeholders: Safety team, ADs, Key Admins

ACTION Monitor direction of storm

ACTION Prepare to halt the game

INNER – 10 Miles

ACTION

ALERT Outdoor horn and strobes are activated

ACTION All outdoor activities are halted

Staff and students head to designated indoor

area for safety until all clear is given



Kingwood

TAKEAWAYS



Alerting on pre-defined thresholds will allow time to prepare for incoming severe weather.



Easy means to disseminate severe weather alerts will help mitigate risks associated with severe weather.



Timely and effective severe weather alerting will save lives, protect property and reduce business disruptions.





Contact us at info@earthnetworks.com