

# Storms and Lighting Safety Fact Sheet

Sometimes storms can occur with little warning and can be very hazardous if you are outdoors without adequate shelter. Storms can have elements of wind, rain, snow, and lightning that can cause the following:

- Falls
- Getting lost
- Injury from flying debris
- Hypothermia
- Injury from lightning (burns, concussive trauma, cardiac arrest, etc.)

## **PERSONAL PROTECTIVE EQUIPMENT**

- ✓ Water and wind resistant clothing appropriate to the weather conditions
- ✓ Rubber Soled Shoes
- ✓ Lightning detector\**Optional*
- ✓ Shovel-for blizzard potential

## **PREPARATION AND TRAINING**

- ✓ It is essential that you monitor the weather before travel.
- ✓ It is recommended you take courses in: Basic First Aid

## **GENERAL SAFETY**

- ❖ Watch for cloud formation and changes in wind direction that may indicate a developing storm.
- ❖ Tides can be much higher and rougher during storms, so avoid doing any work near large bodies of water.
- ❖ If you are going to be in low-lying areas, such as canyons or river valleys, be aware of the potential for flash floods, especially in desert environments. They can occur on a sunny day if there is rain farther upstream.
- ❖ Obey mandatory evacuations for storms, floods, and other natural disasters.

## **EMERGENCY RESPONSE**

- ❖ Seek shelter and do not continue to perform field work in storm conditions. Shelters could be cars or enclosed buildings.
- ❖ Try to stay dry. Both blizzards and rainstorms can cause the onset of hypothermia, especially if clothes become wet.

### **Thunderstorm**

- ❖ Obey the 30/30 rule which is if there is 30 seconds between a flash of lightning and the roll of thunder seek shelter and remain in that shelter until 30 minutes have elapsed after the last roll of thunder.
- ❖ Do not seek shelter under trees or small caves (lightning can jump the gap from the roof to the ground through you).
- ❖ Do not seek shelter in a tent in a thunderstorm as the metal poles may attract a lightning strike.
- ❖ If you are above the tree line, move to lower elevation as soon as you recognize a storm coming.
- ❖ If you are unable to find shelter minimize your contact with the ground and minimize your height. Crouching down on the balls of your feet placed close together with your head tucked down. If you have a metal framed pack, leave it at least 100 feet from where you intend to stand.
- ❖ Stay at least 50 feet away from another person to minimize injuries in the case of a strike.
- ❖ If someone has been struck by lightning, identify if they are breathing. If they are not breathing, perform CPR.
- ❖ Treat for shock and burns. Burns generally occur in the extremities and areas that contact metal jewelry or objects.
- ❖ Every person injured by lightning requires immediate medical attention.

### **Blizzard**

- ❖ In whiteout conditions, stay put, as the reduced visibility could cause you to miss hazardous obstacles or become disoriented.
- ❖ Try to shelter in an area out of the wind. If there is no shelter, make a shelter out of snow by digging a pit or a trench.
- ❖ Stay warm. Keep your body covered. Be careful when moving to warm yourself, as sweating can trigger hypothermia.
- ❖ Stay hydrated. Melt snow before drinking to avoid lowering your body temperature.

## **REFERENCES AND ADDITIONAL RESOURCES**

National Outdoor Leadership School: [Lightning Safety Guidelines](#)  
[National Weather Service](#)