

You'll need a microscope like [this one](#), and a snow card like [this one](#).

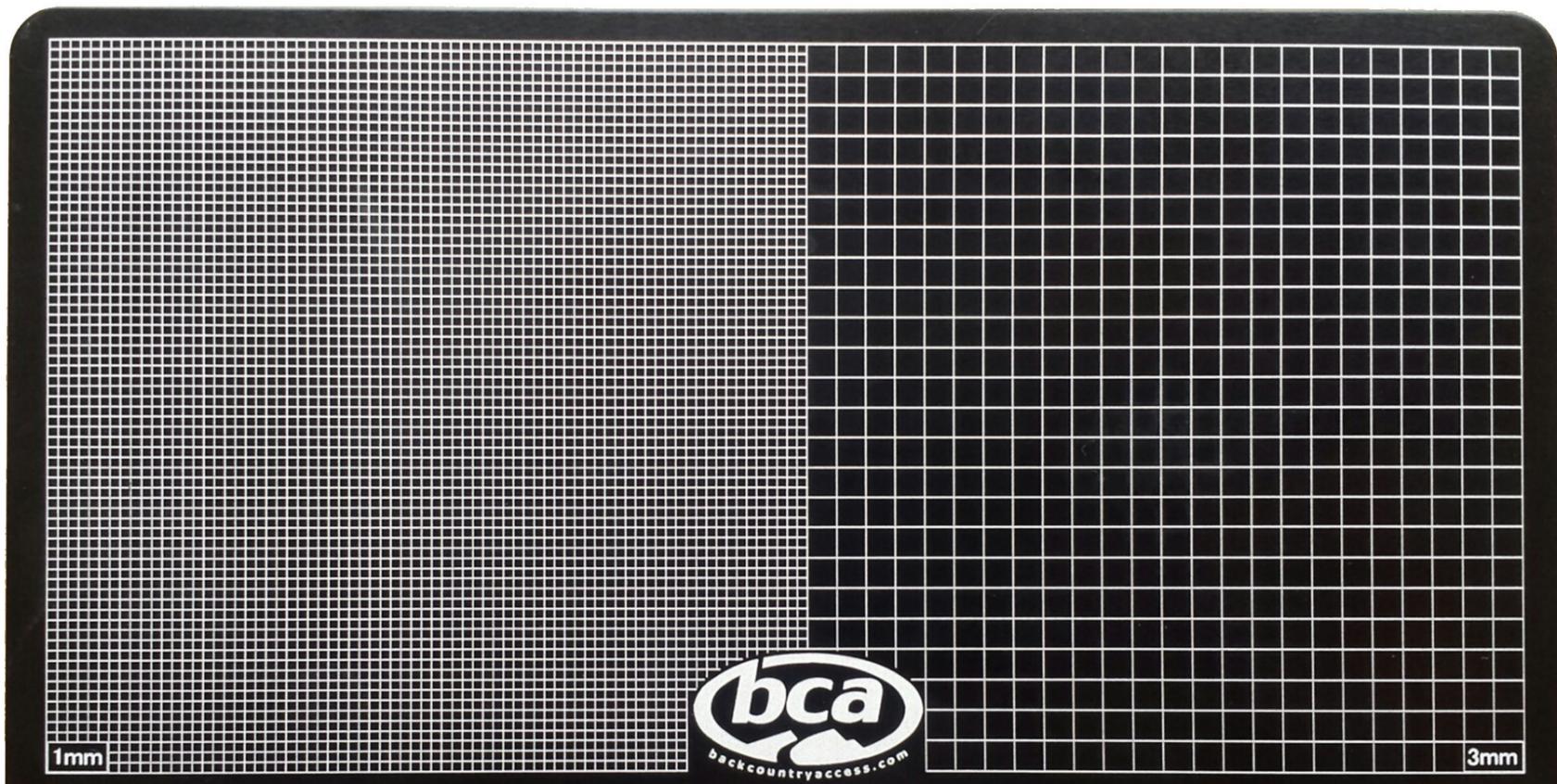
Snowflake Scouters:

- Find a spot with recent untouched snowfall
- Write down the date and time of day
- Using an app, find your GPS coordinates and write them down
- Write down what the weather conditions are: is it windy, calm, what's the temperature and humidity outside? Record any other environmental information you have access to
- Scrape or brush some snow onto the card
- Use a thin paintbrush to very lightly distribute the snow on the card
- Use the microscope attached to your phone's camera to take a photo of an area of the card where the snowflakes are more dispersed. Hold the microscope close to the snowflakes with steady hands to get the most focused photo.
- Share your photo and information written down via social media using #xsnow2018 or email them to xsnow2018@gmail.com
- Feel free to also send a selfie of your field work!

The approach above works best if you plan to walk around and collect data at different locations. If you decide to stay in one place, you might want to consider the following approach:

Snowflake Station Observers:

- Print a mm grid on a transparency
- Tape the transparency to a clear plastic sheet
- Cut a hole in a box, like a shoebox and place an LED flashlight through it.
- Tape the flashlight to the box
- Tape the plastic sheet with gridded transparency to the top of the box.
- Choose a spot outside where snow can land on the box's surface
- When ready to observe snowflakes, write down the date and time of day
- Using your app, find your GPS coordinates, write them down
- Write down weather conditions, windy/calm, temperature, humidity?
- Use microscope attached to your phone's camera to take a photo of an area of the card where the snowflakes are more dispersed. Hold the microscope close to the snowflakes with steady hands to get the most in focus photo.
- Share your photo and information written down via social media using #xsnow2018 or email them to xsnow2018@gmail.com
- Feel free to also send a selfie of your field work!



snow grain classification

+ Precipitation Particles (PP)	● Rounded Grains (RG)	^ Depth Hoar (DH)
⊙ Machine Made (MM)	□ Faceted Crystals (FC)	∇ Surface Hoar (SH)
/ Decomposing and Fragmented Particles (DF)	○ Melt Forms (MF)	▬ Ice Forms (IF)

