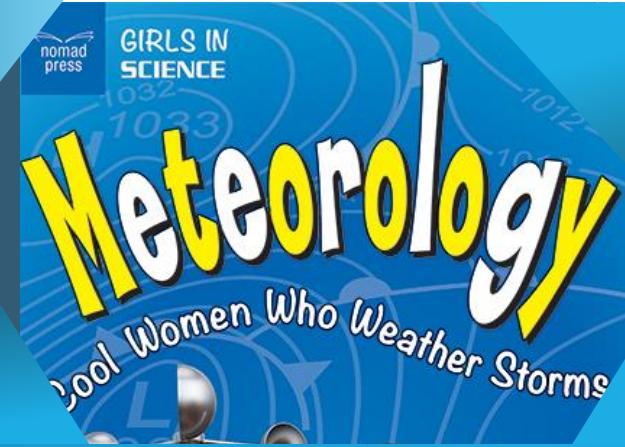


METEOROLOGY: COOL WOMEN WHO WEATHER STORMS DISCUSSION GUIDE



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About This Book

When we think of meteorology, we think of the weather, which affects us all daily. More specifically, meteorology is the study of the atmosphere. Meteorology is not only fascinating, but it keeps us safe from natural elements. In *Meteorology: Cool Women Who Weather Storms*, readers learn about women from the past and today's women who are making a difference in meteorology.

Pre-Reading Activity

What do you know about meteorology? Now, how many female meteorologists can you name? Many people can name a local weather person from television, but that's about it. Meteorologists do a lot more than announce the weather on television. Think about what you know about meteorology as you read *Meteorology: Cool Women Who Weather Storms*.

Discussion Questions

- Discuss the reasons why people have been interested in meteorology since long before it had a name. How did this interest relate to curiosity about astronomy?
- Are climate and weather the same? Explain why or why not.
- We know little about early female meteorologists? Why do you think that is?
- Explain the invention of various meteorology tools and how the tools have changed the science of meteorology.
- How did World War II affect both the science of meteorology and the number of women meteorologists?
- How did science help Weather Channel meteorologist Kelly Case (Chapter 2) overcome a fear? Can you think of other examples of how science could help someone conquer a fear?
- Compare and contrast high and low pressure systems. Why is it important to know the difference?
- Have women's roles in broadcast meteorology changed over the years? If so, describe how they've changed.
- Click to the Smithsonian Weather Lab (QR code on page 25). What does this app demonstrate for you?
- National Weather Service meteorologist Bianca Hernandez (Chapter 3) had an interest in meteorology from a young age. How did events and geography around her effect her future career?
- Hernandez is also very involved in diversity and translates weather information for people whose first language is Spanish. Why is this important? Is diversity important in other sciences?
- How did being a part of a female community in college help Pam Heinzelman when she started work?
- What is phased-array radar? How does eye-tracking research on forecasters help to improve forecasts?
- Most members (96%) of the American Meteorological Society believe that climate change is occurring. What does climate change have to do with meteorology?
- What woman from history did you read about in this book did you find the most interesting and why?
- Meteorology highlights many careers in the atmospheric sciences. Which one sounds most interesting to you? How could you learn about it?