



SEEN



The Phenomenon Event

- *What do you observe?*
- *Why do you think this is happening?*
- *What ideas do you have about how this happens?*

Patterns of the Event

- *How does this event change over time? Duration? Frequency?*
- *How does this event change over different geographic locations?*
- *What other variables do you believe to affect this event in the Earth System?*
- *What phenomenon is this event most closely connected to?*

The Phenomenon Structure

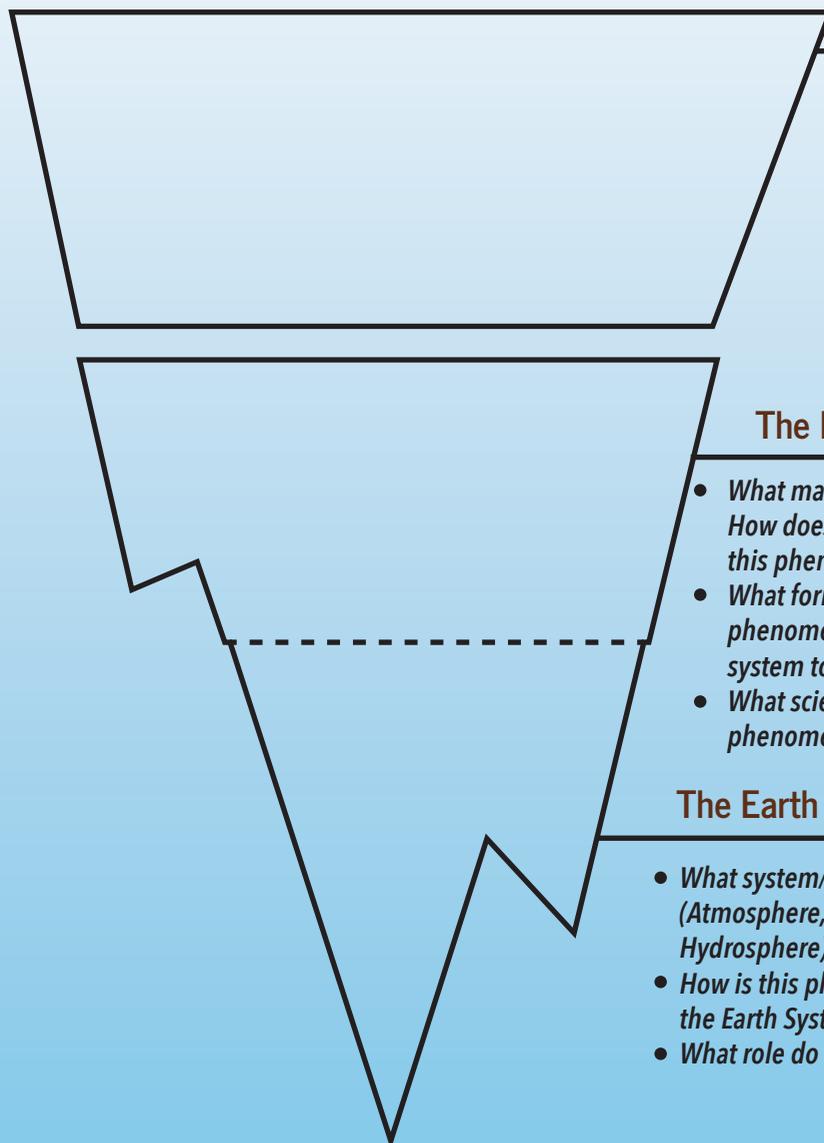
- *What materials are involved in this phenomenon? How does matter flow in/through the system to affect this phenomenon?*
- *What forms of energy are involved in this phenomenon? How does energy flow in/through the system to affect this phenomenon?*
- *What scientific principles are related to this phenomenon?*

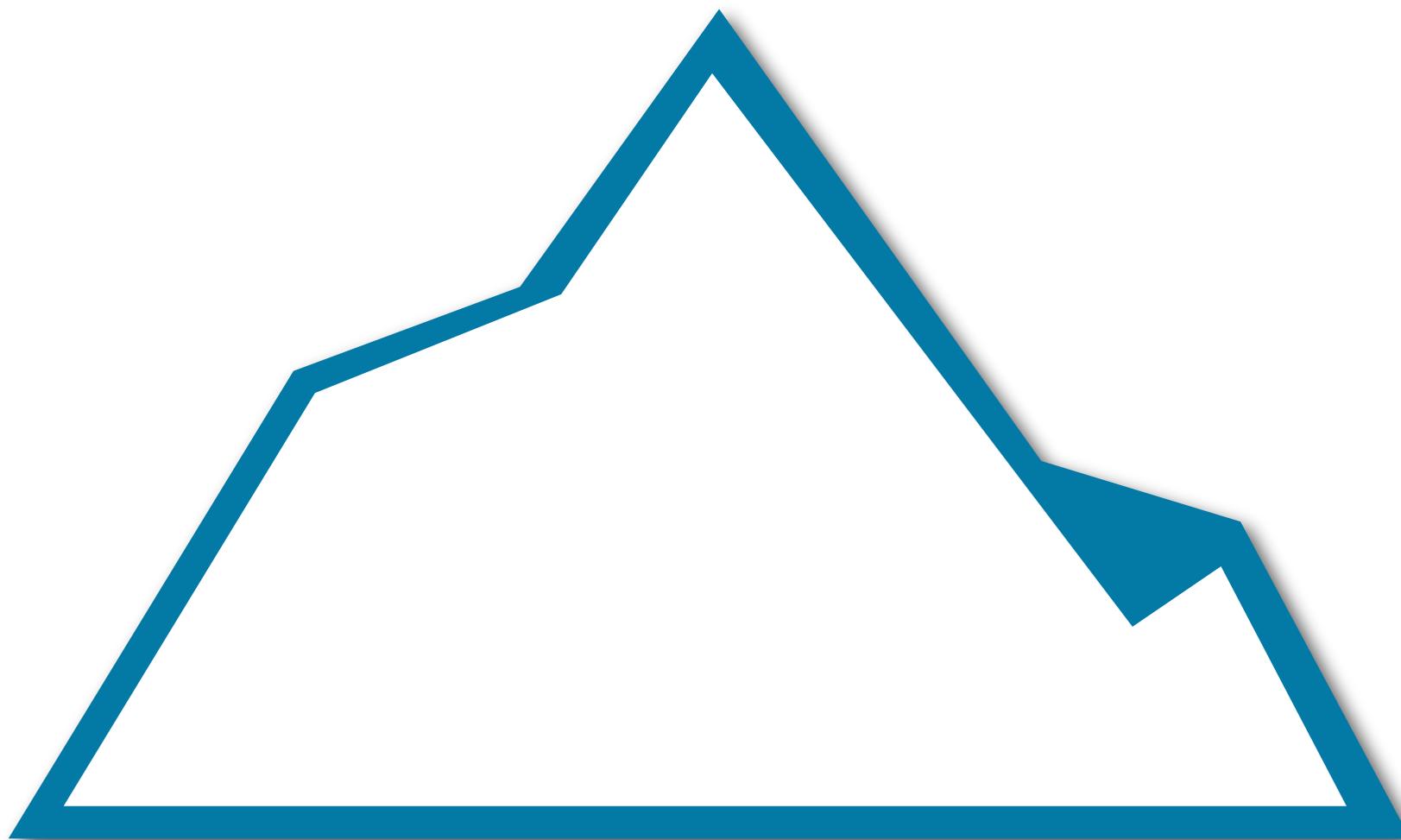
The Earth System Connection

- *What system/s does this phenomenon belong to (Atmosphere, Biosphere, Cryosphere, Geosphere, Hydrosphere)?*
- *How is this phenomenon connected to other spheres in the Earth System?*
- *What role do humans play in this phenomenon?*



UNSEEN





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- *What* do you observe?
- *Why* do you think this is happening?
- What ideas do you have about *how* this happens?

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