

# Nova PBS Video: **Inside the Megastorm**

1. What percentage of tropical storms eventually develop into hurricanes?
2. What is the source of energy from which a hurricane draws its strength?
3. Explain the prediction established by the European model regarding Hurricane Sandy.
4. Why is coastal NY and NJ specifically vulnerable to coastal flooding caused by storm surge?
5. How does the “Bermuda High” usually affect the path of hurricanes?
6. What role did the Gulf Stream play in the development of Hurricane Sandy?
7. How did the developing nor’easter affect the storm?
8. In what way may the arrival of Hurricane Irene in 2011 have impacted the preparations of NY and NJ residents?
9. Explain how the high pressure system that developed in the North Atlantic impacted the course of Sandy.
10. Explain how the irregular Jet Stream pattern affected Sandy.
11. How did the geographic shape of Long Island Sound affect the Hurricane Sandy storm surge?

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1. How wide was the expanse covered by superstorm Sandy?
2. Why did the NYC power company elect to turn off the power during the storm?
3. Where did Hurricane Sandy first make landfall in NJ?
4. What were the highest recorded wind speeds for Sandy when it made landfall?
5. What part of the hurricane contains the most energy and violent aspects of the storm?
6. How high were the waves as Sandy made landfall in NJ?
7. How many 911 calls were made an hour after Sandy made landfall?
8. Why were NYC firefighters having a difficult time fighting fires after the storm?
9. Should the northeastern seaboard expect more storms like Sandy in the future? **Why or why not?**
10. Are there any preparations that can be made to help mitigate the effects of potential future hurricanes?
11. How may climate change be linked to the occurrence of more powerful hurricanes in the future?