

Meteorological Monsters

PART A: 2005 Hurricane Season

1: Generalizing from the information in this video, describe where most hurricanes form and how they move across the Atlantic Ocean basin. Does there seem to be anything particular about those places that helps hurricanes to form?

2: Come up with four questions about things from the video that you didn't understand.

1)

2)

3)

4)

PART B: Patterns of Hurricanes

Global Wind Pattern Effects

3: Based on these two images, is there a connection between global wind patterns and the movement patterns of hurricanes? In your own words, describe how global wind patterns illustrated in the first image influence the overall patterns you see in the second image.

4: There are a few areas on the second image where there is little to no hurricane activity. The most prominent one of these is the empty stripe running along the equator. In the 20 years covered by this data, not a single hurricane has been seen to cross through this region from one hemisphere to the other. Based on what you've learned so far, hypothesize as to why we might expect this to be the case.

5: Does the absence of equator crossing storms in the second image mean that such events do not happen? Justify your answer.