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Weekly Challenge

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We're actively looking for ideas on how to improve Weekly Challenges and would love to hear what you think!
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Challenge #84: Map Hurricane Harvey's Storm Evolution

ChristineB
Alteryx Alumni (Retired)

The solution to last week's Challenge has been posted HERE.

This week's Challenge asks you to map the path and storm classification of Hurricane Harvey from its origins in the Atlantic to its eventual landfall in the United States.

Hurricane Harvey was the first major hurricane to make landfall in the United States in over ten years, ending a period of with no hurricanes of Category 3 intensity or higher making landfall in the US. The eighth named storm, third hurricane and the first major hurricane of the 2017 Atlantic hurricane season, Harvey evolved over the course of its path (over 5500 miles from the western coast of Africa to the United States!) from a wave to a full hurricane.
The Start File, downloaded from the National Hurricane Center (NOAA.gov), contains data on the storm's path, its storm type classification and intensity. Construct the line segments for each of the changes in storm type over the storm's path. For each line segment, calculate the storm's average intensity.

NOTE: Data for Hurricane Irma can also be downloaded from the NHC here if you'd like to compare the storm tracks and/or intensities.

Hurricane Harvey upon landfall in the United States.

📎 **challenge_84_start_file.yxmd** ⤓

📎 **challenge_84_solution.yxzp** ⤓
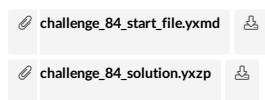
Data Analysis   Interface   Intermediate   Join   Macros   Spatial   Spatial Analysis   Transform

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ChristineB
Alteryx Alumni (Retired)

The Start File is now posted! Thanks to @David-Carnes for alerting me that it wasn't included with the post!

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Attached solution

▷ Spoiler

🔗 **challenge_84_Gnans.yxmd**   ⬇

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Edwin_dup_98
5 - Atom

Thank you for this new challenge!

Here is my solution.

Average Intensity numbers differ from the given output by Christine. I took average within a segment, where the given output took the average of a segment + first intensity number of next segment.

🔗 **challenge_84_Edwin.yxmd**   ⬇

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jamielaird
14 - Magnetar

Here's my solution. Slight difference with some of the average intensities as noted by others.

▷ Spoiler

🔗 **challenge_84_JL.yxmd**   ⬇

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nick_ceneviva
11 - Bolide

Solution attached. Ended up adding a couple more steps to be able to get the intensities to match and to have no gaps in the path.

▷ Spoiler

🔗 **challenge_84_Ceneviva.yxmd**   ⬇

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JORGE4900
8 - Asteroid

Hello all,

Here my solution; since I was coming up with different averages for the storm intensity, I tried doing them both way and still could not replicate the sample.

🔗 **challenge_84_Jorge_Solution.yxmd**   ⬇

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JORGE4900
8 - Asteroid

@nick_ceneviva You were actually able to come up with the right averages; nice!

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David-Carnes
11 - Bolide

Posting this as Hurricane Irma is setting her sights on my home state.

▷ Spoiler

I can see ~~three~~ four different ways to come up with at average intensity for each segment but I went with the one whose output matches @ChristineB's start file.

📎 **David-Carnes-084.yxmd**   ⊡

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JoeM
Alteryx Alumni (Retired)

@ChristineB's solution is posted!

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