

# SEA SURFACE HEIGHT (SSH)

GO HERE: <https://tidesandcurrents.noaa.gov/stations.html?type=Water+Levels>

1. Select location “9755371 San Juan, La Puntilla, San Juan Bay, PR” under the Caribbean section
2. Produce a time series plot of “Observed Water Levels” from Sept 1-30, 2017 (1pt)
3. What do the blue and green curves represent? (1pt)
4. What was the peak observed water height? (1pt)
5. What was the predicted water height from that same time? (1pt)
6. What is the difference between the peak observed and the forecasted water height at the time of the peak observed height? (1pt)
7. What was the observed water height at midnight local time on Sept. 30, 2017? (1pt)
8. What is the relative sea level trend at this location? (Sea Level Trend is located under the Tides/Water Levels tab) (1pt)
9. Interpret in words what this trend means. You can write 1-2 sentences. (1pt)
10. What is the relationship between peak wind speed and barometric surface pressure? Identify when the storm passed over the location and name the two storms that passed during Sept 2017. (2pt)

2017 STORMS can be found here: <https://www.nhc.noaa.gov/data/tcr/index.php?season=2017&basin=atl>

DUE OCT. 10, 2022