The diagram shows daily distribution of precipitation in Aug. 20, 2017, the day Hurricane Harvey made a landfall. Even though eye of Harvey did not pass Houston directly, it still made the highest accumulated rainfall comparing with same day before or after one year.
The map shows streamflow in different gage stations in North Galveston Bay, Buffalo-San Jacinto, West Galveston Bay and San Bernard watershed during hurricane seasons. To compare with average streamflow, it shows higher level in hurricane season, and it may be a factor to influence flooding condition. Also location of station may be a reason to explain different streamflow in one hurricane season.

ANNUAL STREAMFLOW VS STREAMFLOW DURING HURRICANE PERIOD

SHEN-YU HU, MLA 2016
DESIGN ANALYSIS AND DRAINAGE STRATEGY IN FLOOD SEASON

SPACE & FUNCTION
- Apartment Neighborhood
- Apartment
- Commercial Area
- Court
- Community Park
- Water Activity
- Community Park
- Waterfront
- Single Family House Neighborhood
- Tourist Train Station
- Museum
- New Chuan Power Plant

TRANSPORTATION
- High Way 610
- Main Road
- Barbary

DEVELOPMENT

GREEN SPACE
- Low Density Community
- Medium Density Community
- High Density Community
- Mixed-use Area

DRAINAGE STRATEGY
- Main Drainage Line
- Sheet Flow
- Water Infiltration Area
- Water Infiltration Area
- Water Gathering Area

Multiple spaces and attractions as rain gardens or drainage spots which distribute alone waterfront or inside of neighborhood.

Applying permeable pave in development area for absorbing rainfall.

Big green belt as river channel to drainage water and connect to stream when flooding.