

Module 2

Trends and Future Projections for Flood Hazards in Delaware



A Tale of Two Junes

June 2012 – 5.4 inches



UD Cooperative Extension

Drought damaged soybean crop, Kent County, 2012

June 2013 – 16.47 inches

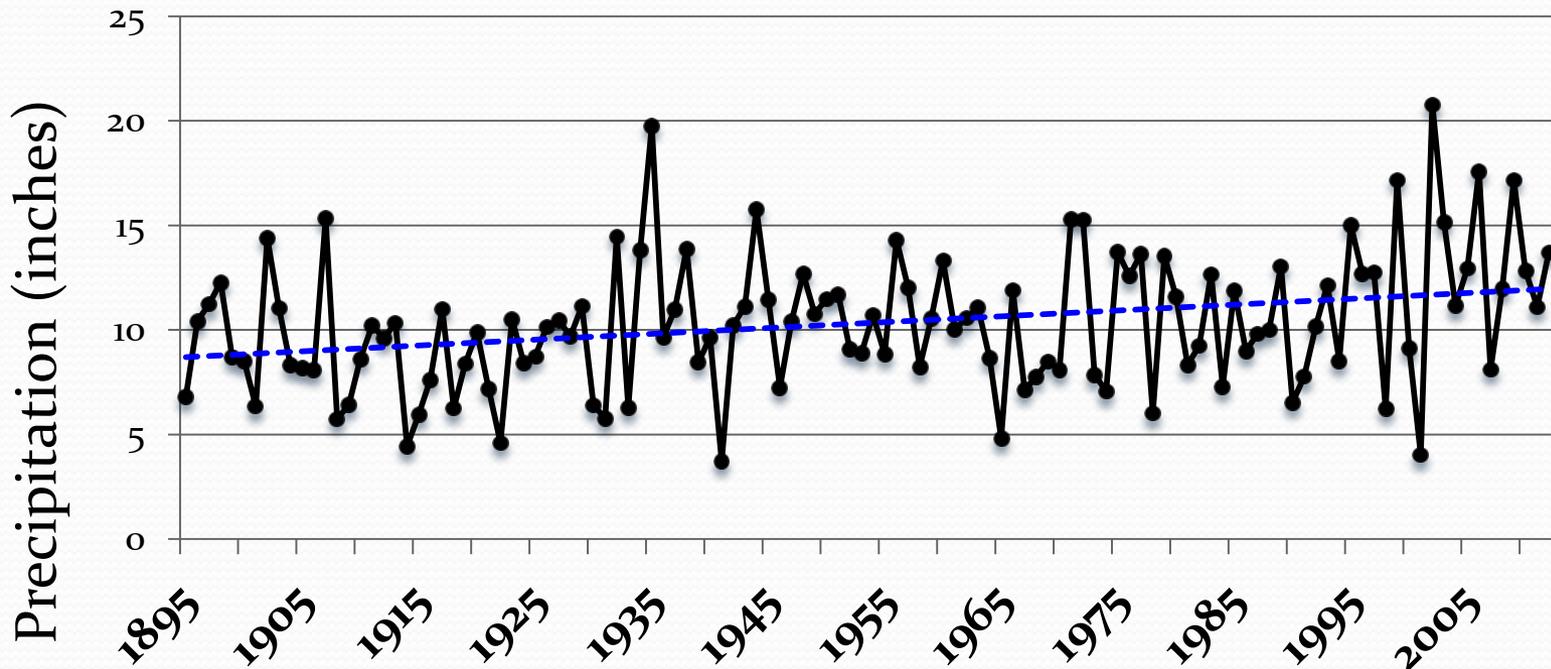


Ablocal.com

Main Street Newark , June 28, 2013

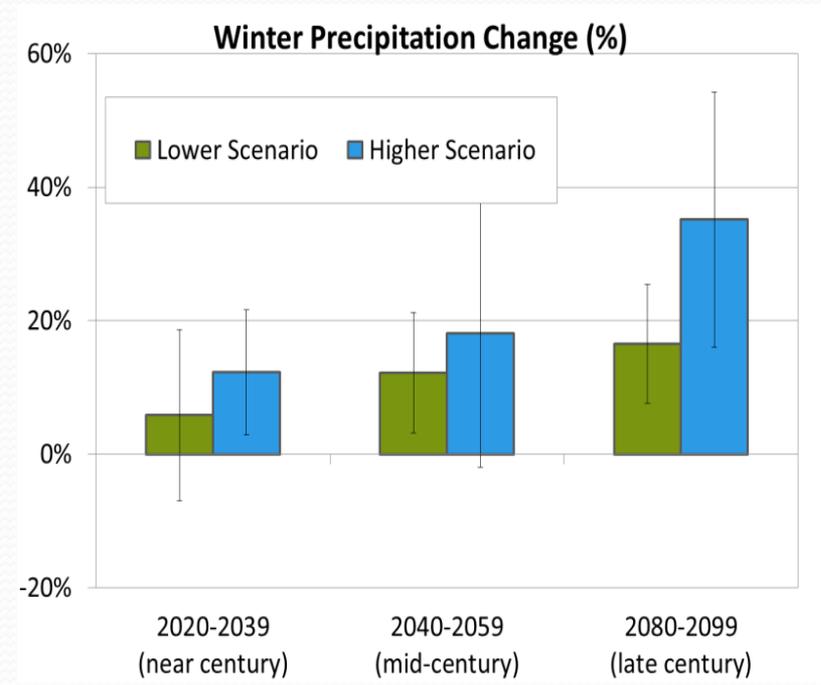
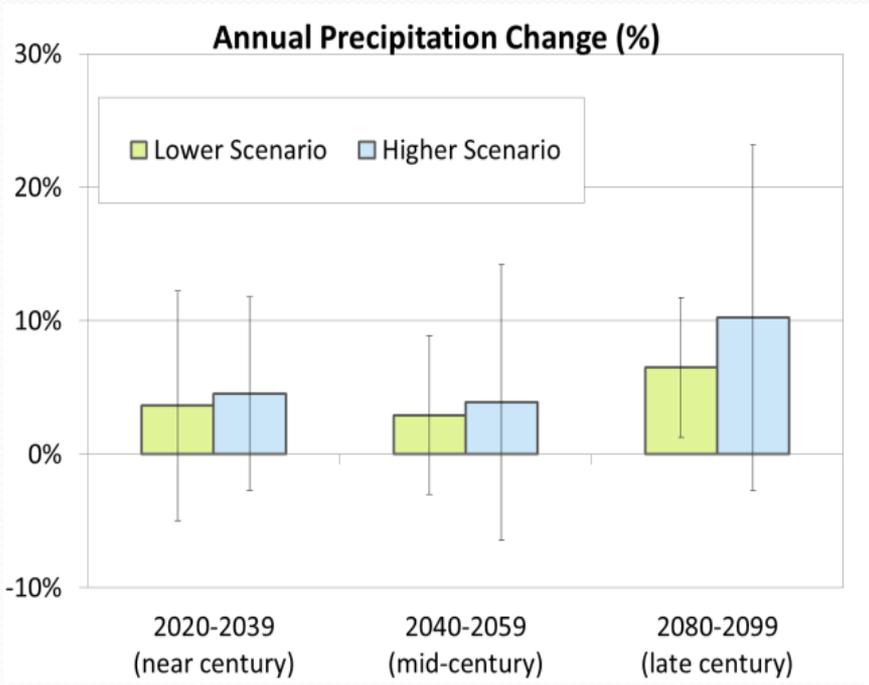
Rainfall in DE is variable with slight upward trend in Autumn

Delaware Statewide Autumn Precipitation 1895 - 2012



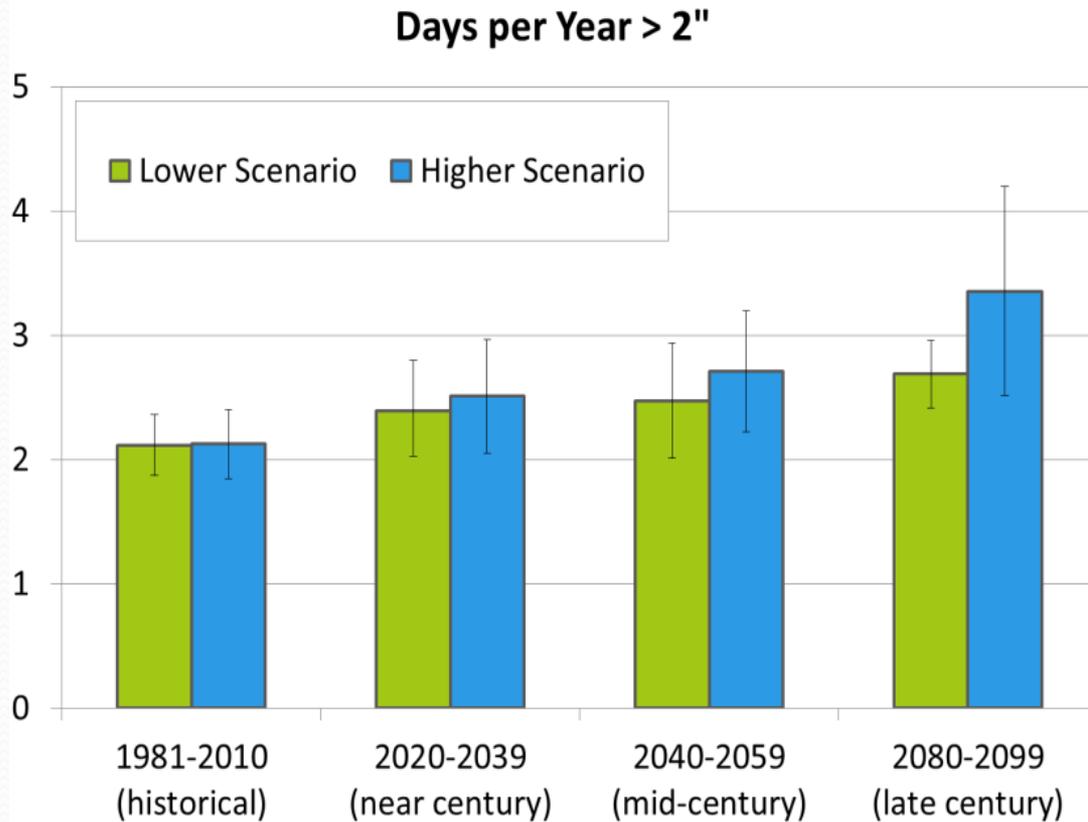
Source: Dr. Daniel J. Leathers, State Climatologist

Delaware's Annual Precipitation is projected to increase

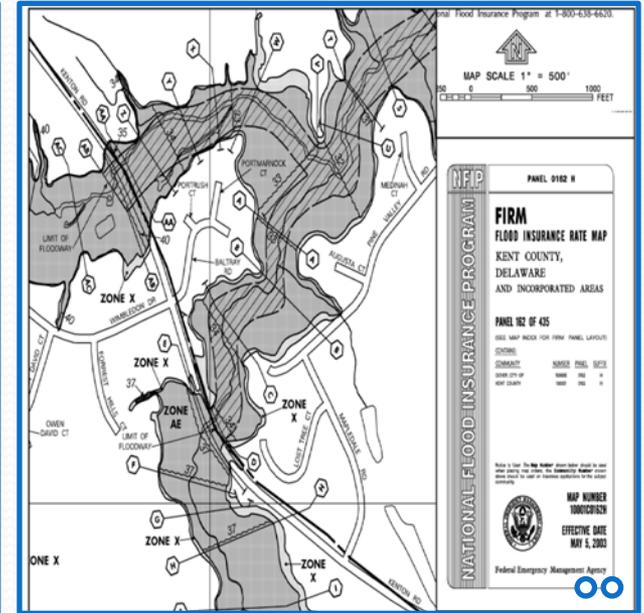


Source: Hayhoe et al., 2013

The Frequency and Severity of Heavy Precipitation events are projected to increase



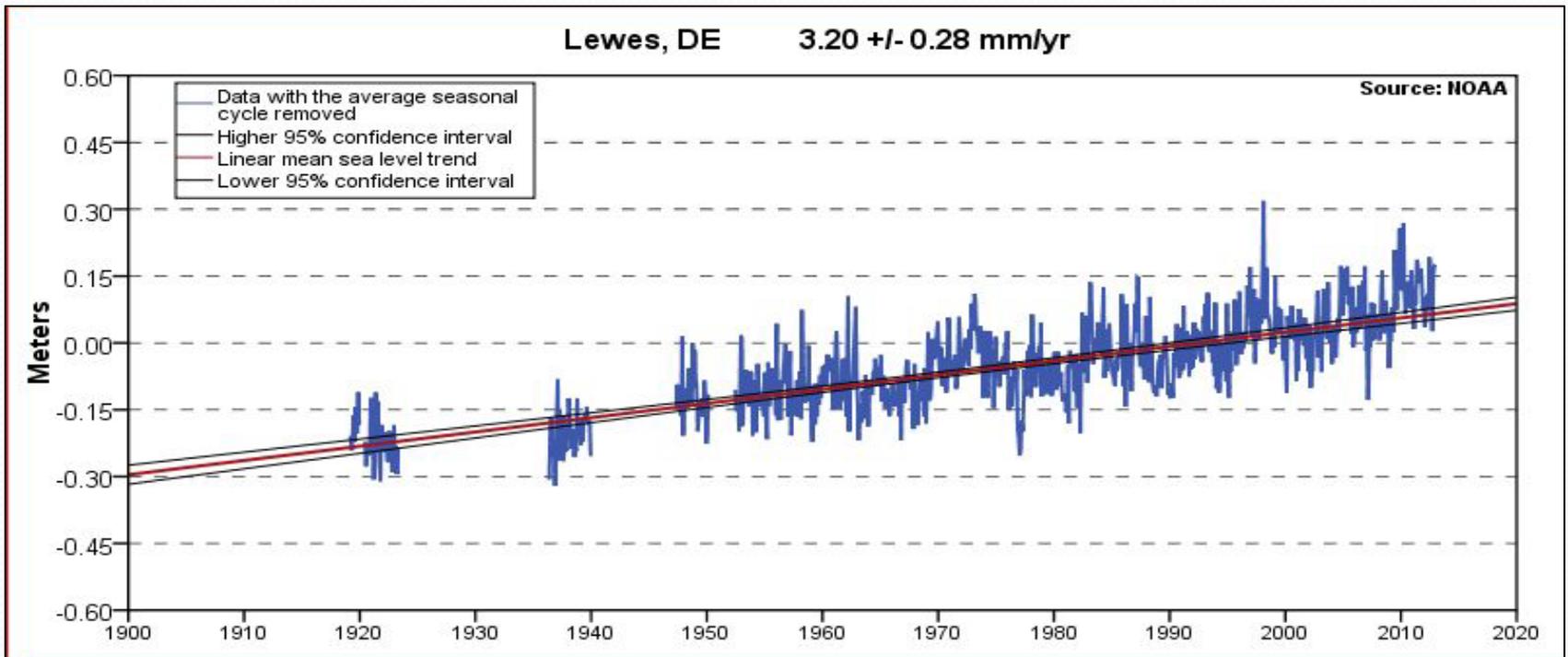
Source: Hayhoe et al., 2013



**But wait,
there's
more!**



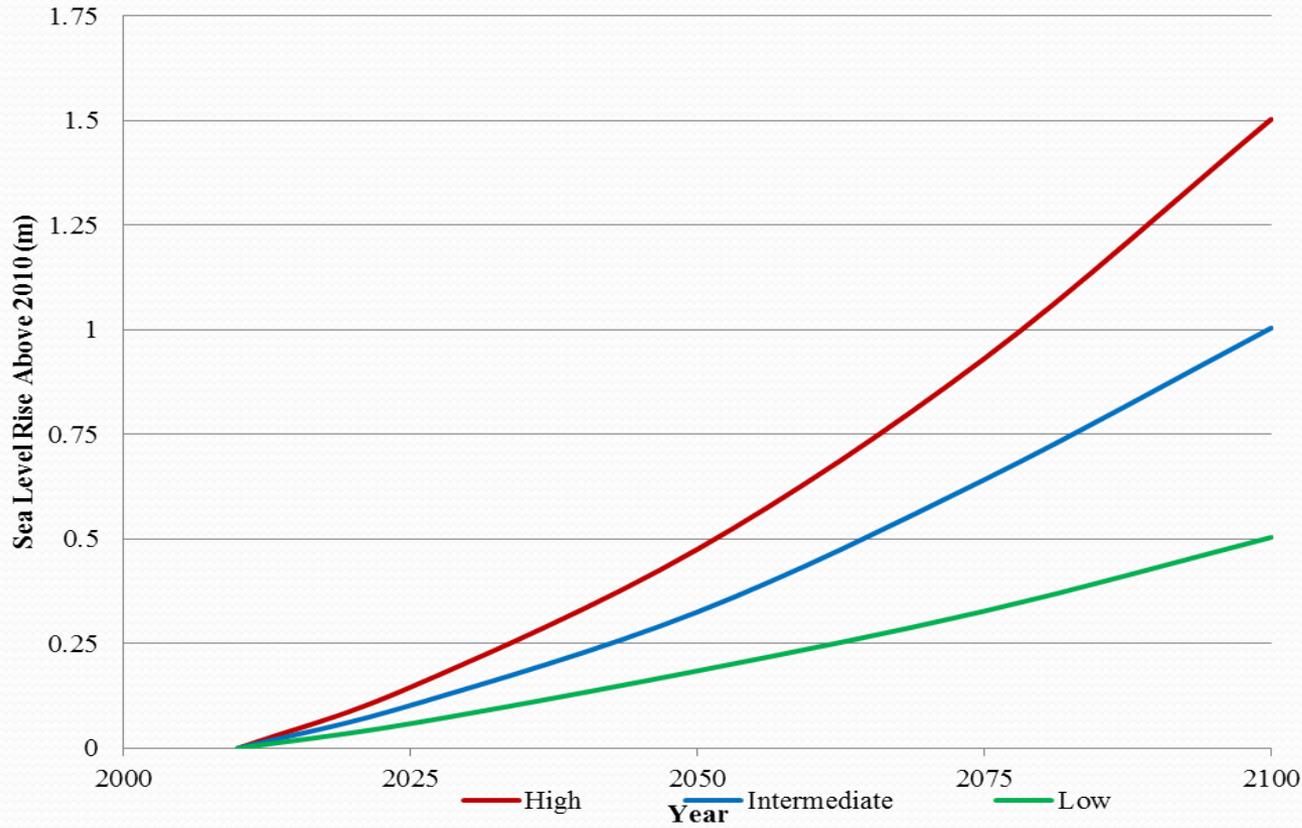
Seas levels are rising



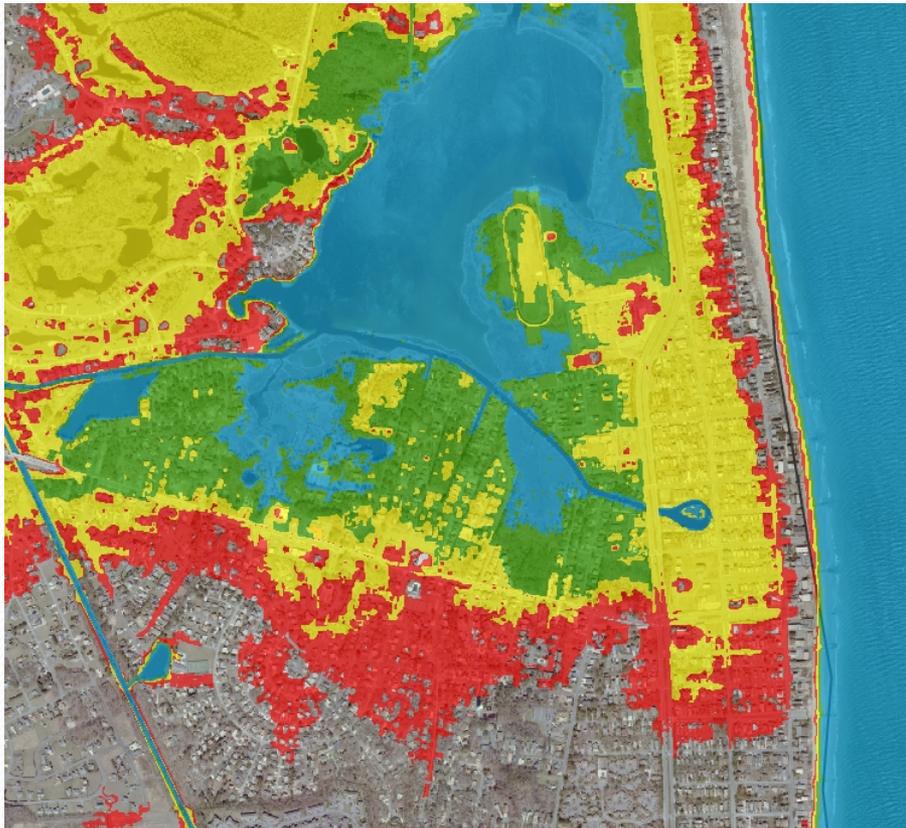
Global rate = 1.7 mm/yr

Rates of SLR are very likely to accelerate in the future

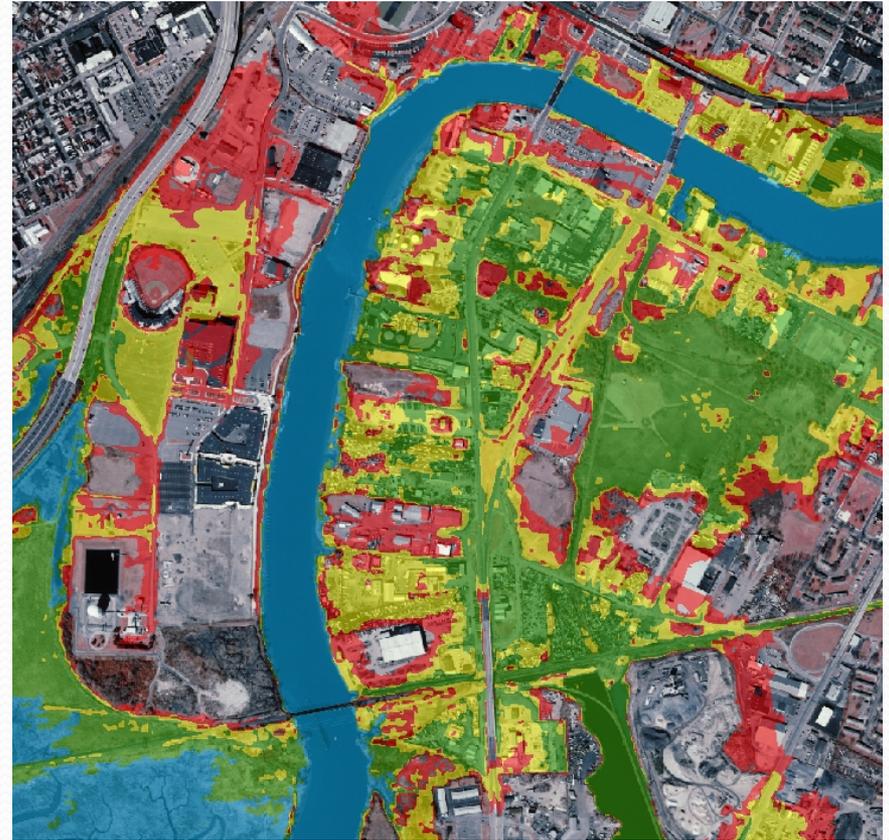
DNREC Sea Level Rise Scenarios



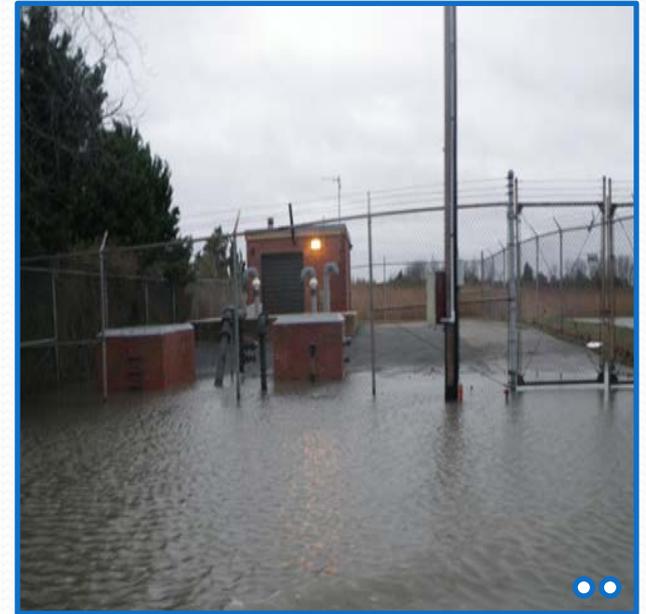
Sea Level Rise will affect all of Delaware



Bethany Beach and Surrounding Areas with 0.5, 1.0 and 1.5 meters of SLR to 2100



South Wilmington and Surrounding Areas with 0.5, 1.0 and 1.5 meters of SLR to 2100



Module 2 Questions?

