

THE CITY OF PHILADELPHIA
— OFFICE OF —
SUSTAINABILITY

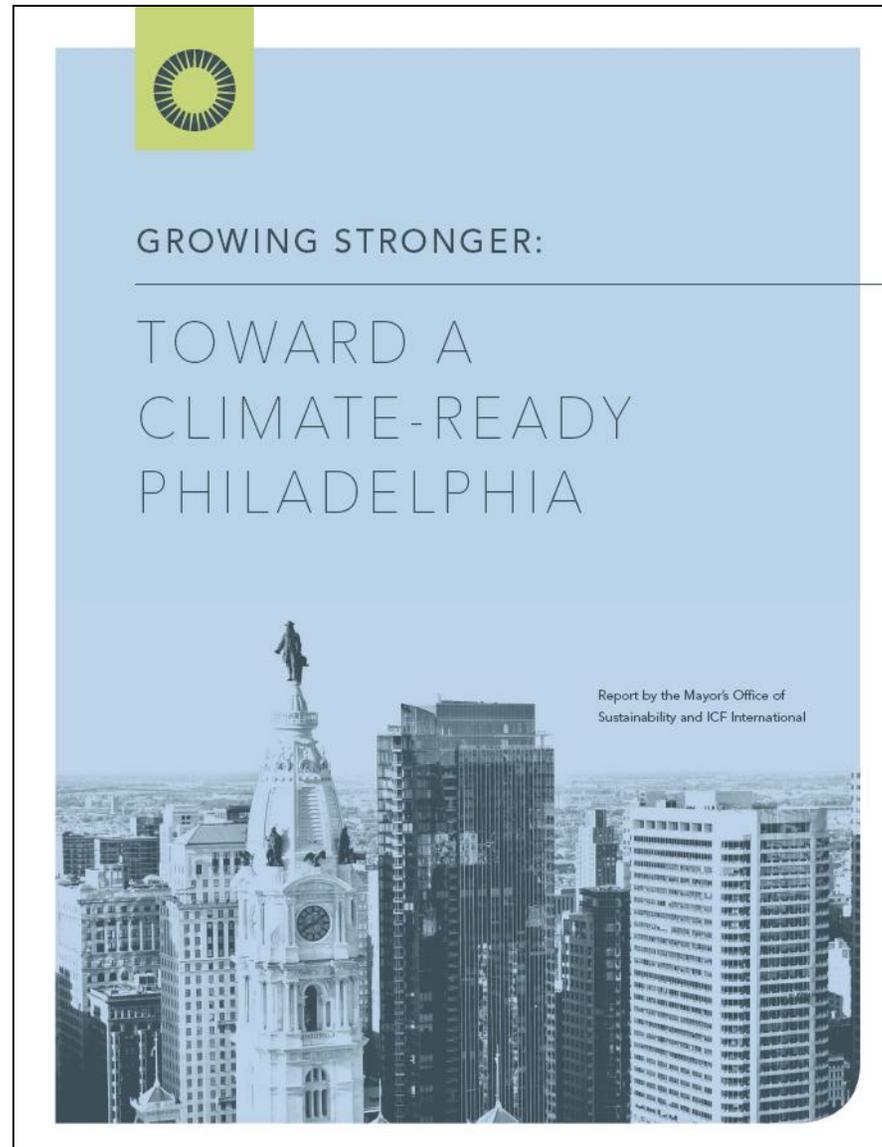


GREENWORKS
PHILADELPHIA

Growing Stronger: Toward a Climate-Ready Philadelphia

Christine Knapp | May 17, 2016

Growing Stronger: Toward a Climate-Ready Philadelphia



Available at tiny.cc/GrowingStronger
or on www.phila.gov/green

Climate Variability and Change

Since 2010, Philadelphia has experienced:

The two wettest years on record

The two warmest summers on record

The snowiest winter on record

The most days over 90 degrees on record

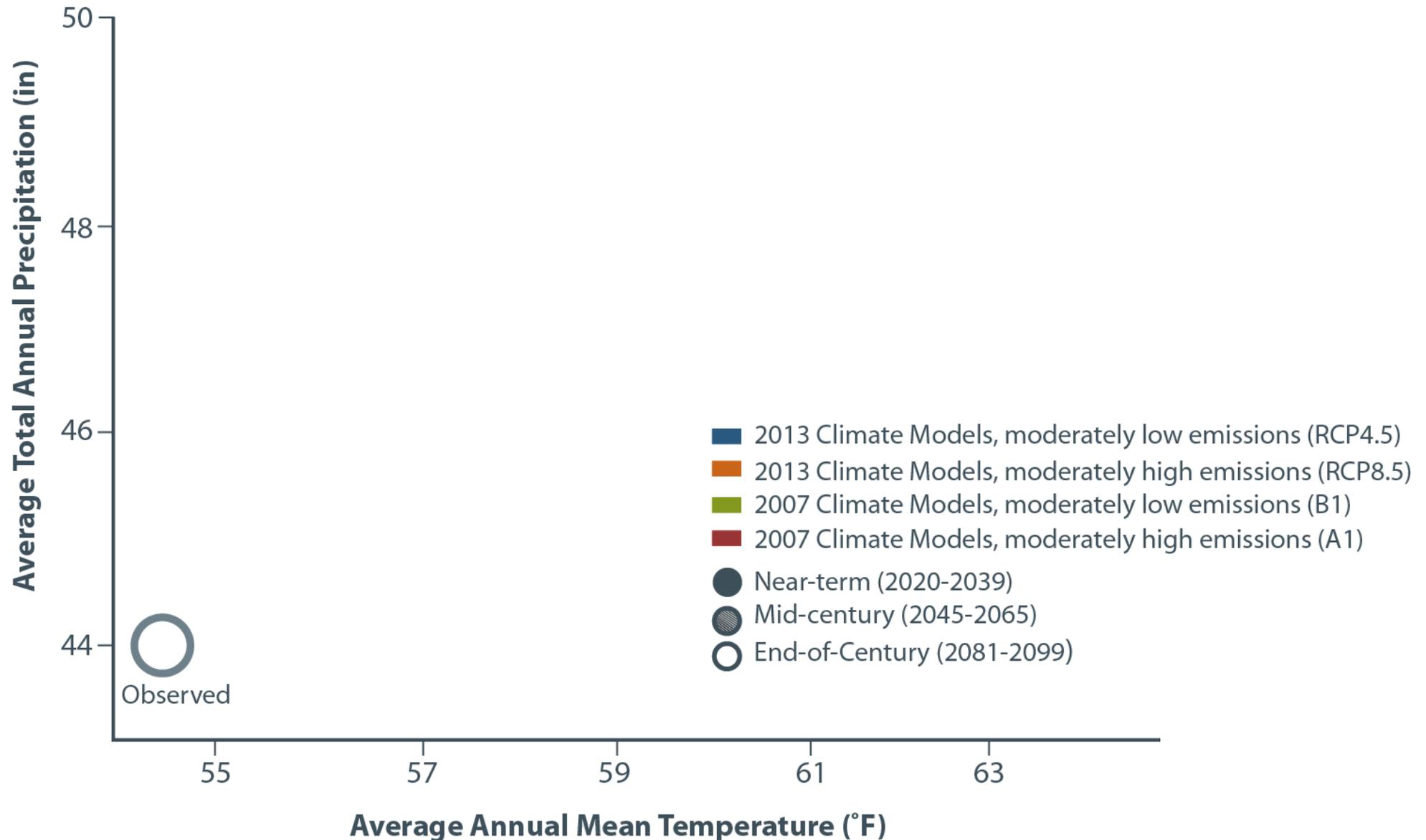
The wettest day on record

Two hurricanes

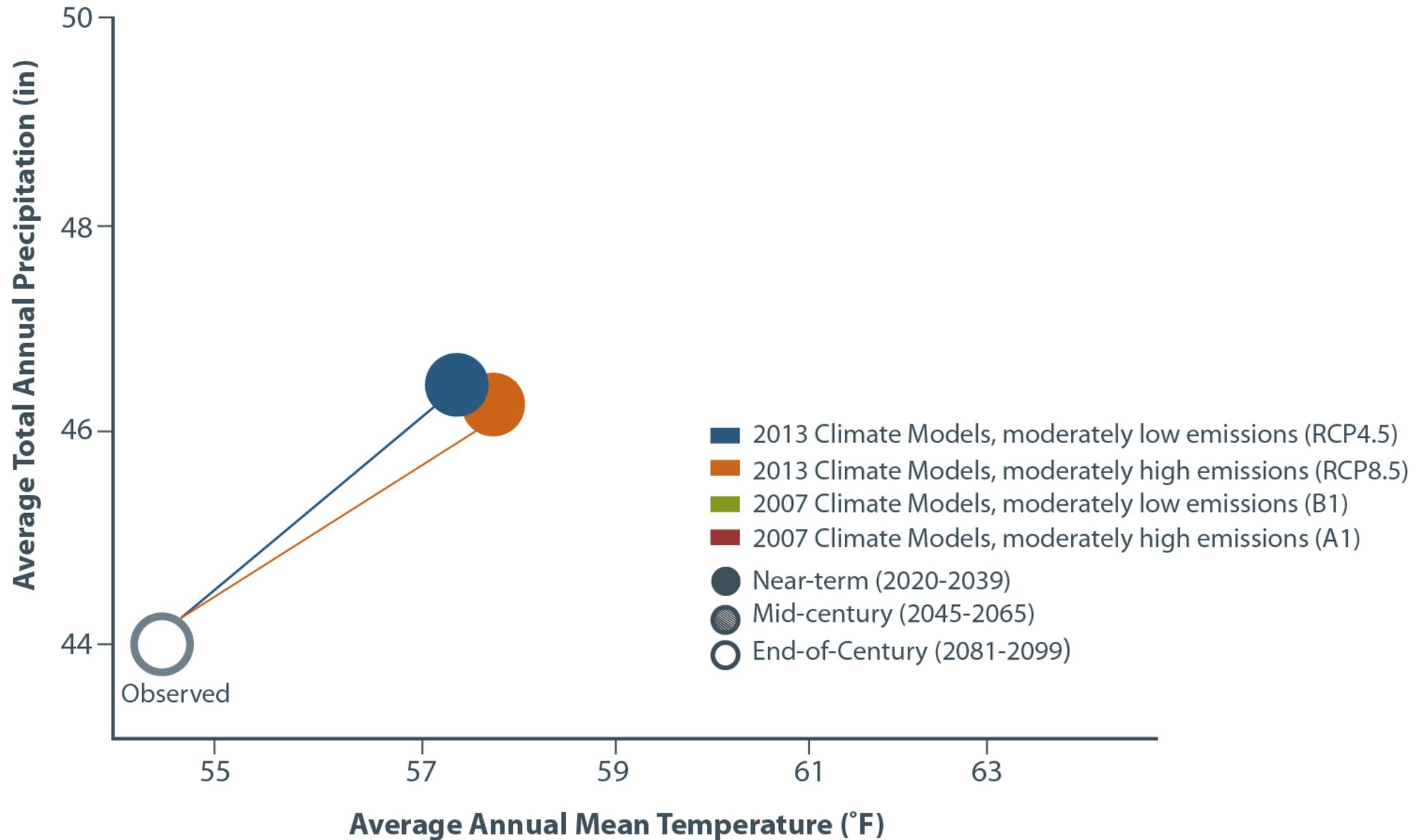
And a derecho.



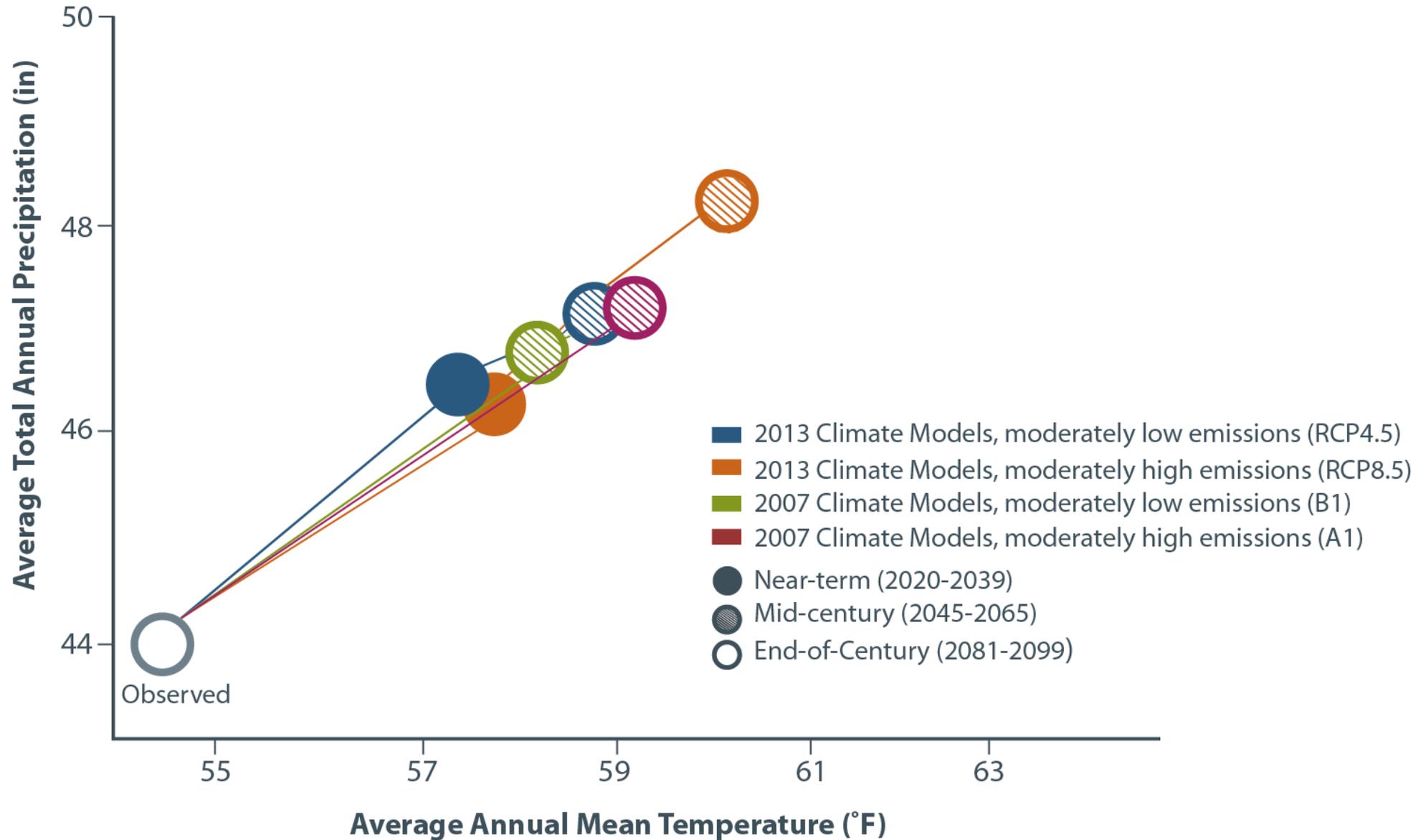
Climate Projections: Temperature and Precipitation



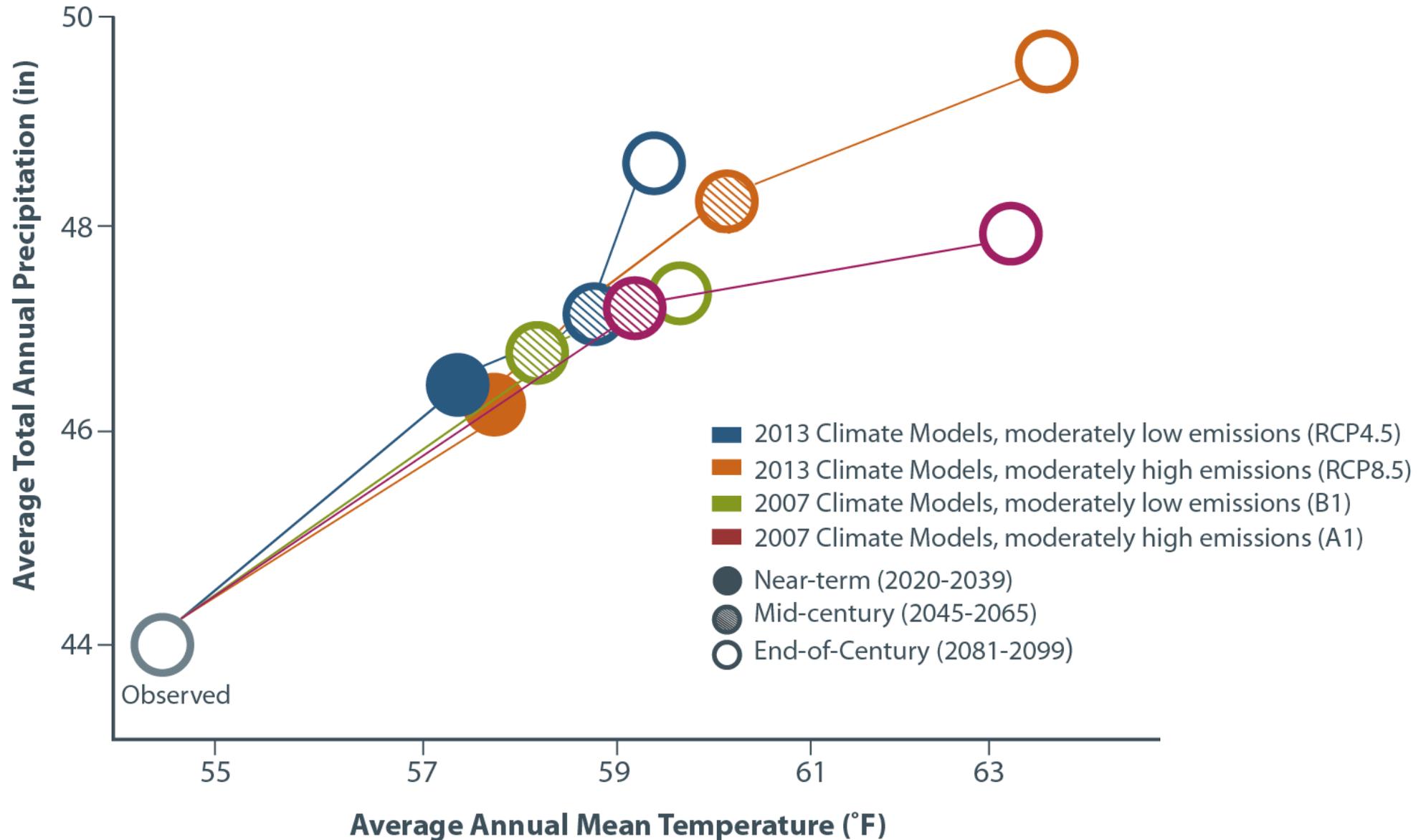
Climate Projections: Temperature and Precipitation



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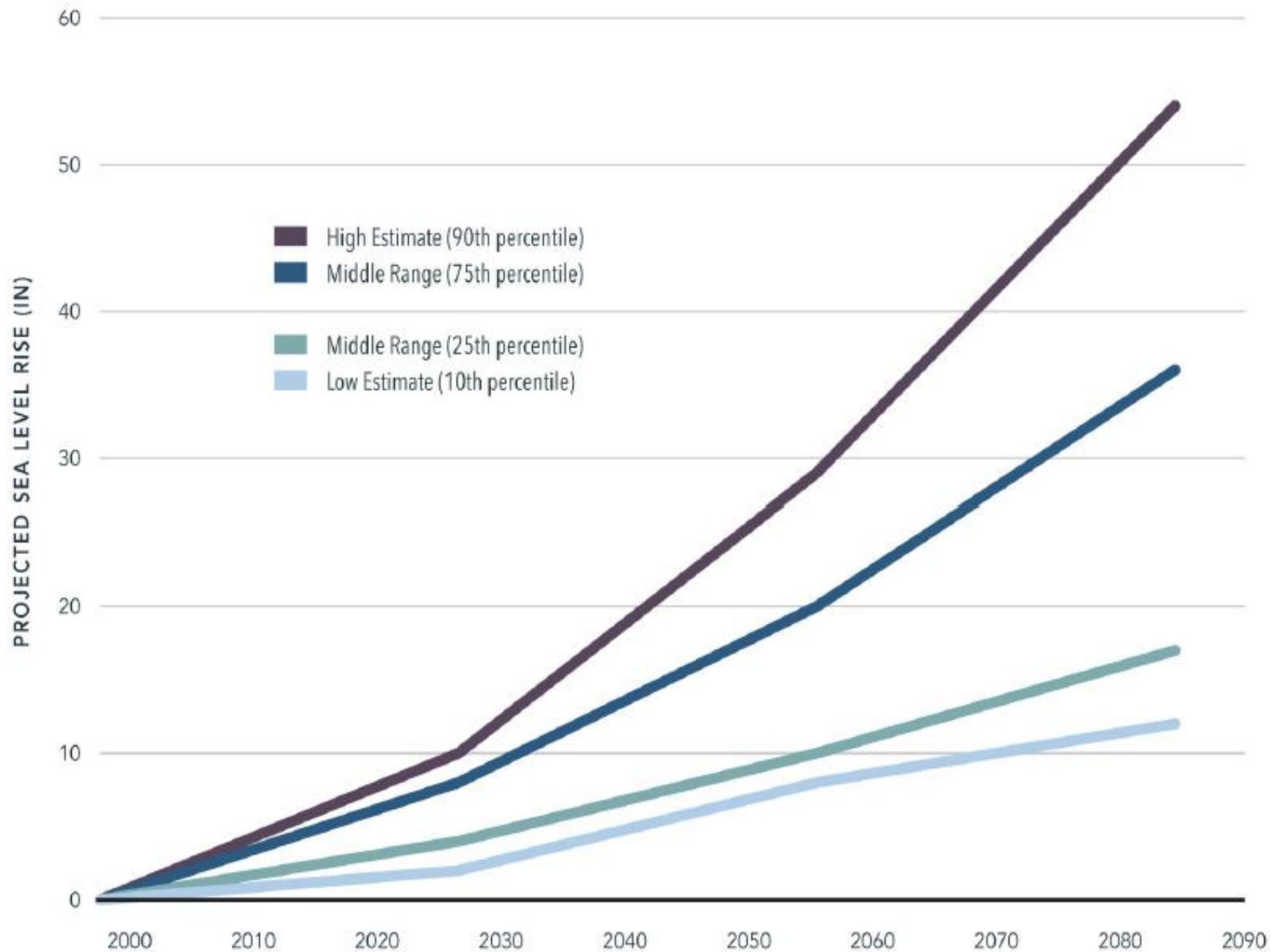


Climate Projections: Temperature and Precipitation



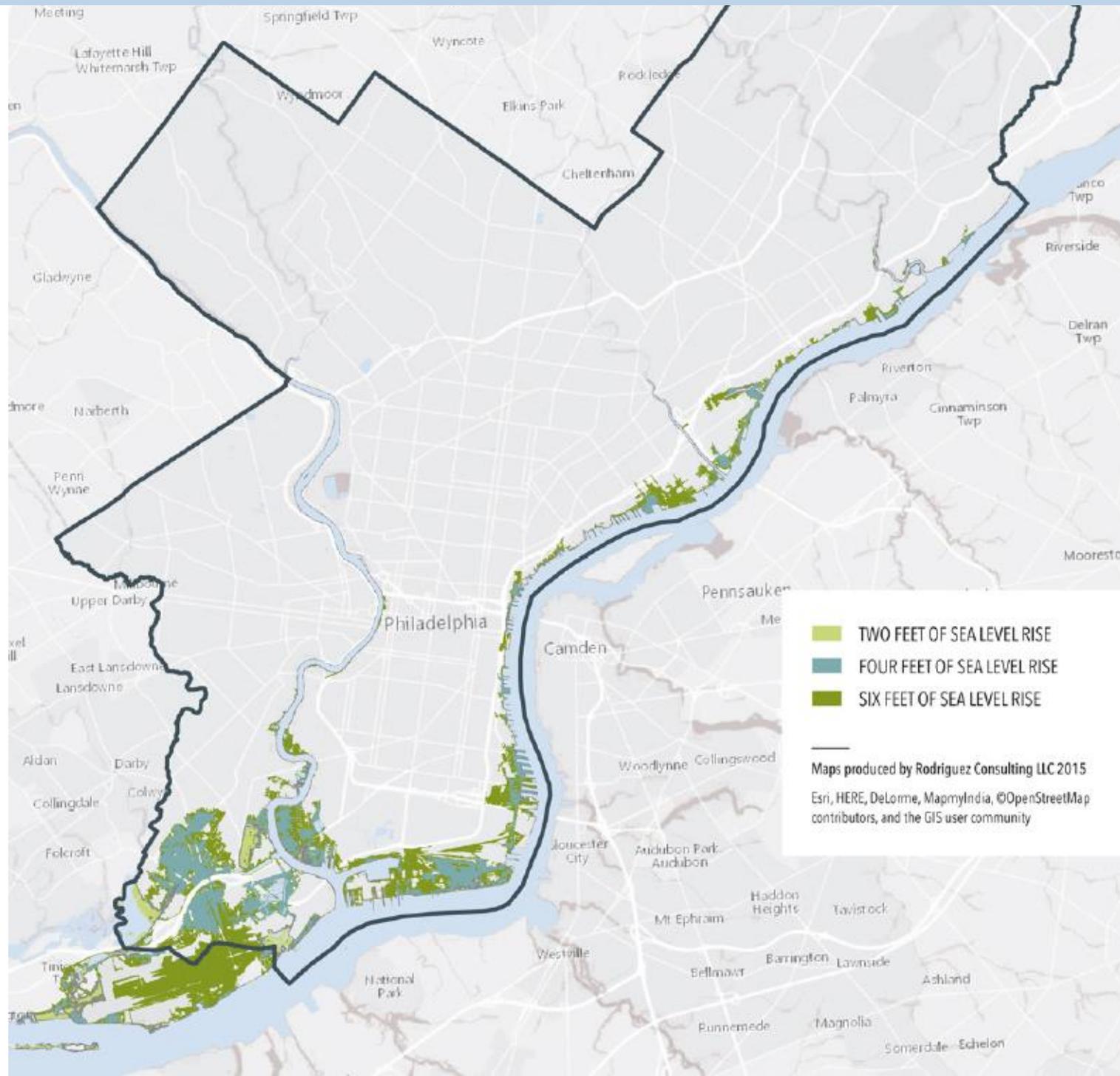
Climate Projections: Sea Level Rise

SEA LEVEL RISE PROJECTIONS FOR THE PHILADELPHIA REGION

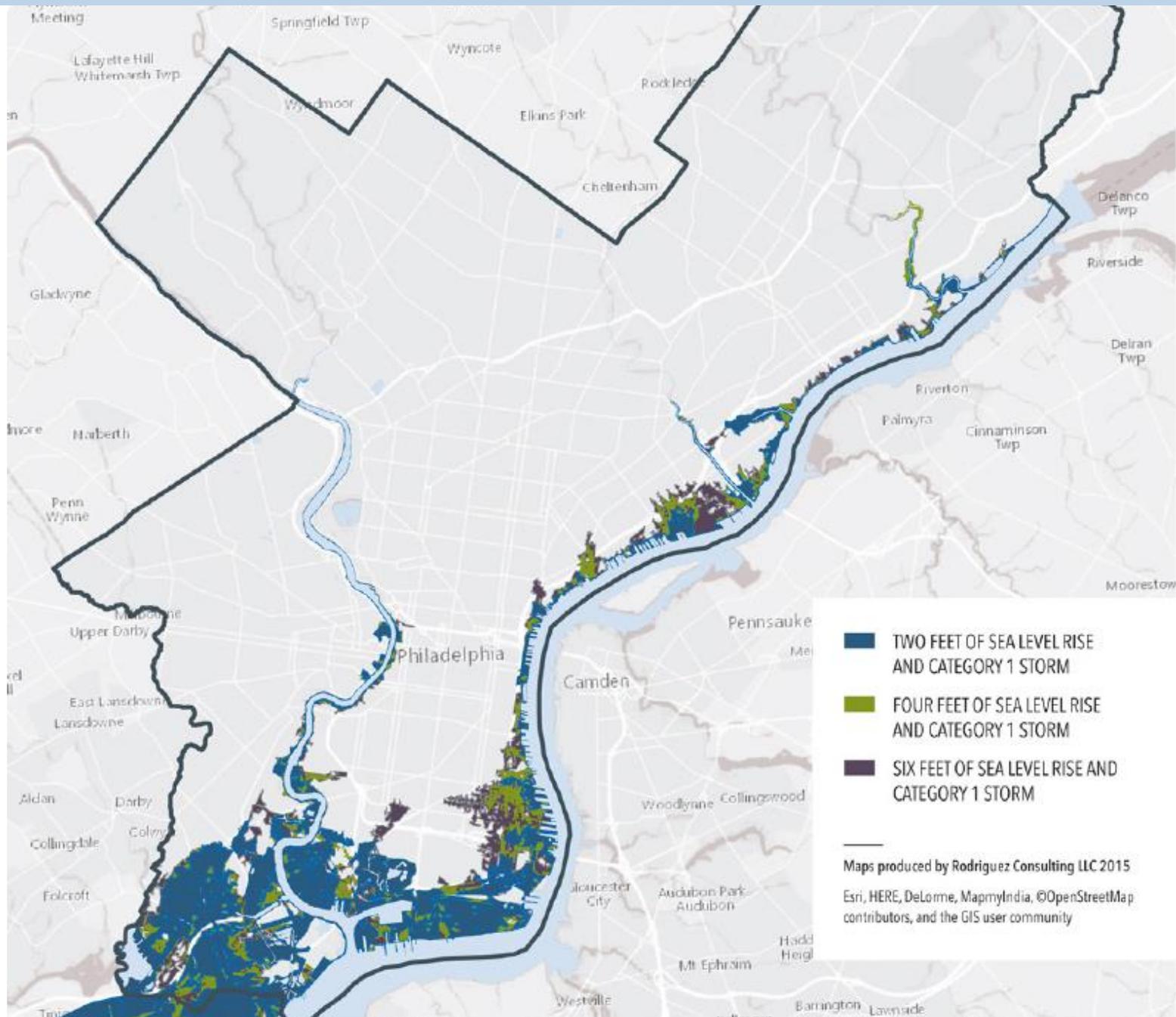


Developed by scientists at Columbia University as part of the Consortium for Climate Risk in the Urban Northeast, and the Climate and Urban Systems Partnership.⁶

Climate Projections: Sea Level Rise

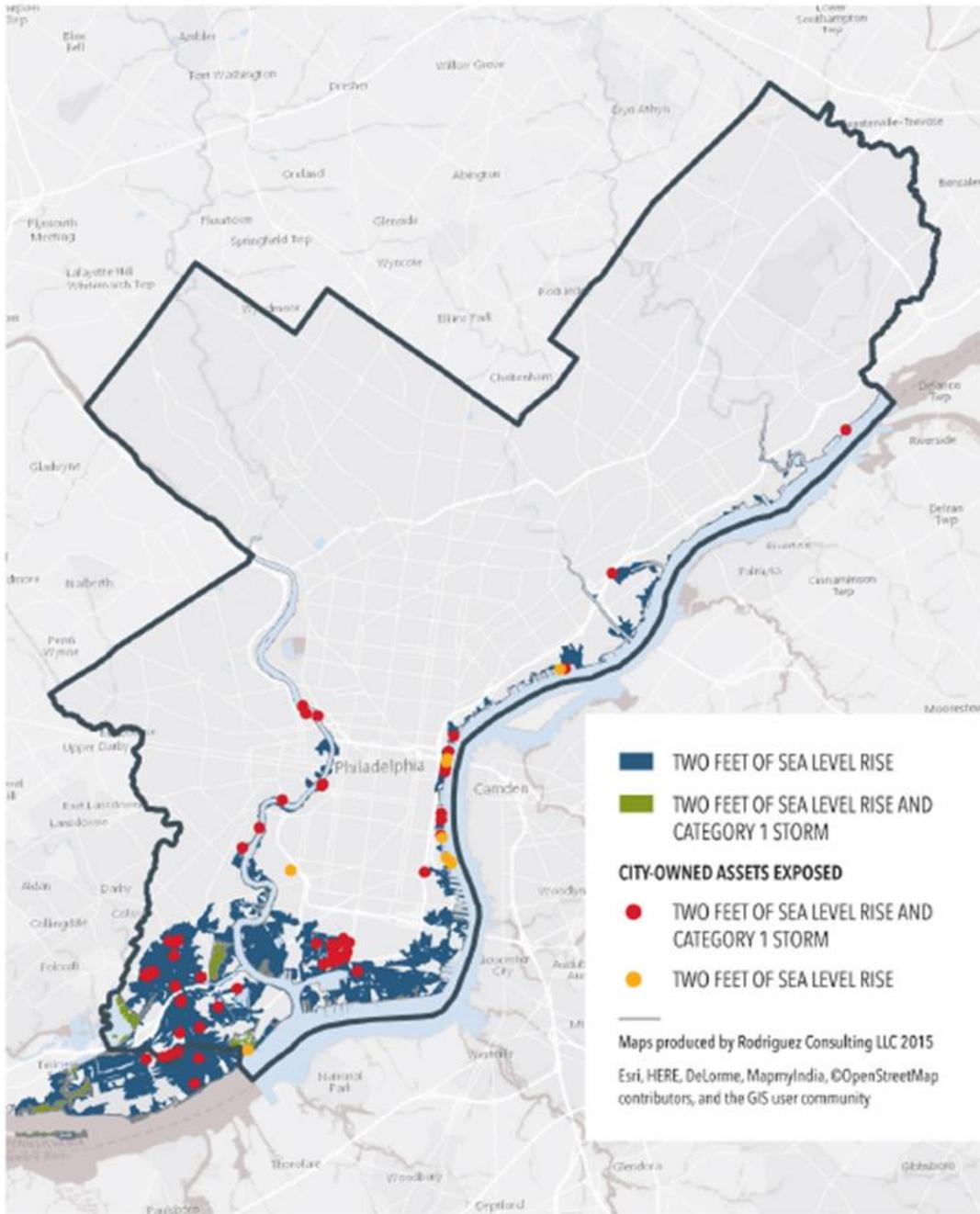


Climate Projections: Sea Level Rise and Storm Surge



Storm Surge/Sea Level Rise Information courtesy of Energy Infrastructure Modeling and Analysis, Office of Electricity Delivery and Energy Reliability, U.S. Department of Energy. Original data produced by NOAA with analysis by ICF.

Assess Vulnerabilities and Risks



ASSETS POTENTIALLY INUNDATED UNDER FLOODING SCENARIOS						
TYPE OF ASSET	SEA LEVEL RISE		SEA LEVEL RISE with storm surge		RIVERINE FLOODING	
	SLR 2	SLR 4	SLR2 + Cat1	SLR4 + Cat 1	100yr	500yr
Highly Vulnerable	Fire Stations [Total number = 62]	0	1	2	2	4
	Police Stations/ Sub-Stations [Total number = 24]	0	0	1	1	2
	Fire Stations Marine [Total number = 2]	0	1	1	2	1
	Police Operations/Unit [Total number = 17]	0	0	0	0	1
Moderately Vulnerable	Multi Use/Office Buildings [Total number = 15]	0	0	1	1	2
	[Total number =2]	0	0	0	0	1

Example Strategy: Building Resilience into New Development

