



2017 COASTAL MASTER PLAN



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2017 COASTAL MASTER PLAN

PLANNING FOR AN UNCERTAIN FUTURE

Governor's Advisory Commission Meeting



Karim Belhadjali | August 3, 2016

PLANNING FRAMEWORK

PREDICTIVE MODELS

INTEGRATED COMPARTMENT MODEL



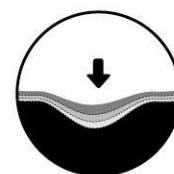
ENVIRONMENTAL AND RISK SCENARIOS



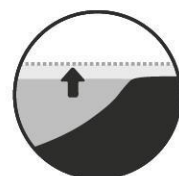
PRECIPITATION



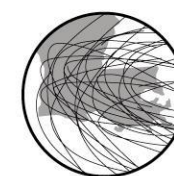
EVAPOTRANSPIRATION



SUBSIDENCE



SEA LEVEL RISE



STORM FREQUENCY



STORM INTENSITY

SURGE/WAVES AND RISK ASSESSMENT MODEL



STORM SURGE/
WAVES



RISK
ASSESSMENT

OUTREACH & ENGAGEMENT

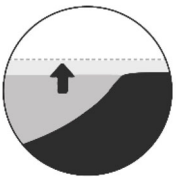
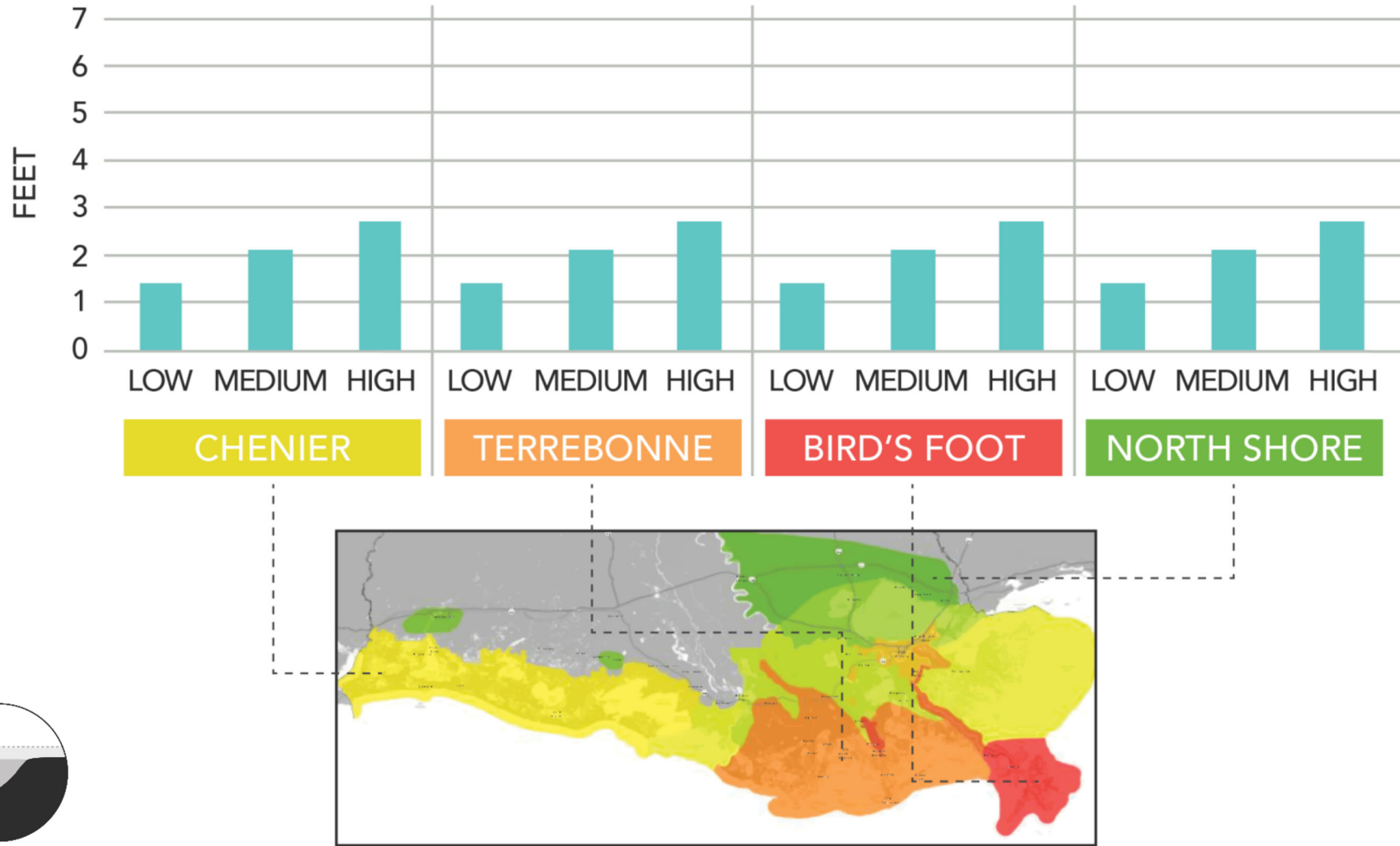
ENVIRONMENTAL SCENARIOS

SCENARIO	 PRECIP	 ET	 SEA LEVEL RISE	 SUBSIDENCE	 STORM FREQUENCY	 AVG. STORM INTENSITY
2017 COASTAL MASTER PLAN						
LOW	>HISTORICAL	<HISTORICAL	1.41'	20% OF RANGE	-28%	+10.0%
MEDIUM	>HISTORICAL	HISTORICAL	2.07'	20% OF RANGE	-14%	+12.5%
HIGH	HISTORICAL	HISTORICAL	2.72'	50% OF RANGE	0%	+15.0%
COMPARED TO 2012 COASTAL MASTER PLAN						
MODERATE	>HISTORICAL	HISTORICAL	0.89'	20% OF RANGE	0%	+10.0%
LESS OPTIMISTIC	HISTORICAL	>HISTORICAL	1.48'	50% OF RANGE	+2.5%	+20.0%

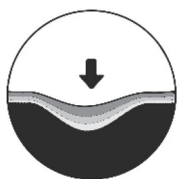
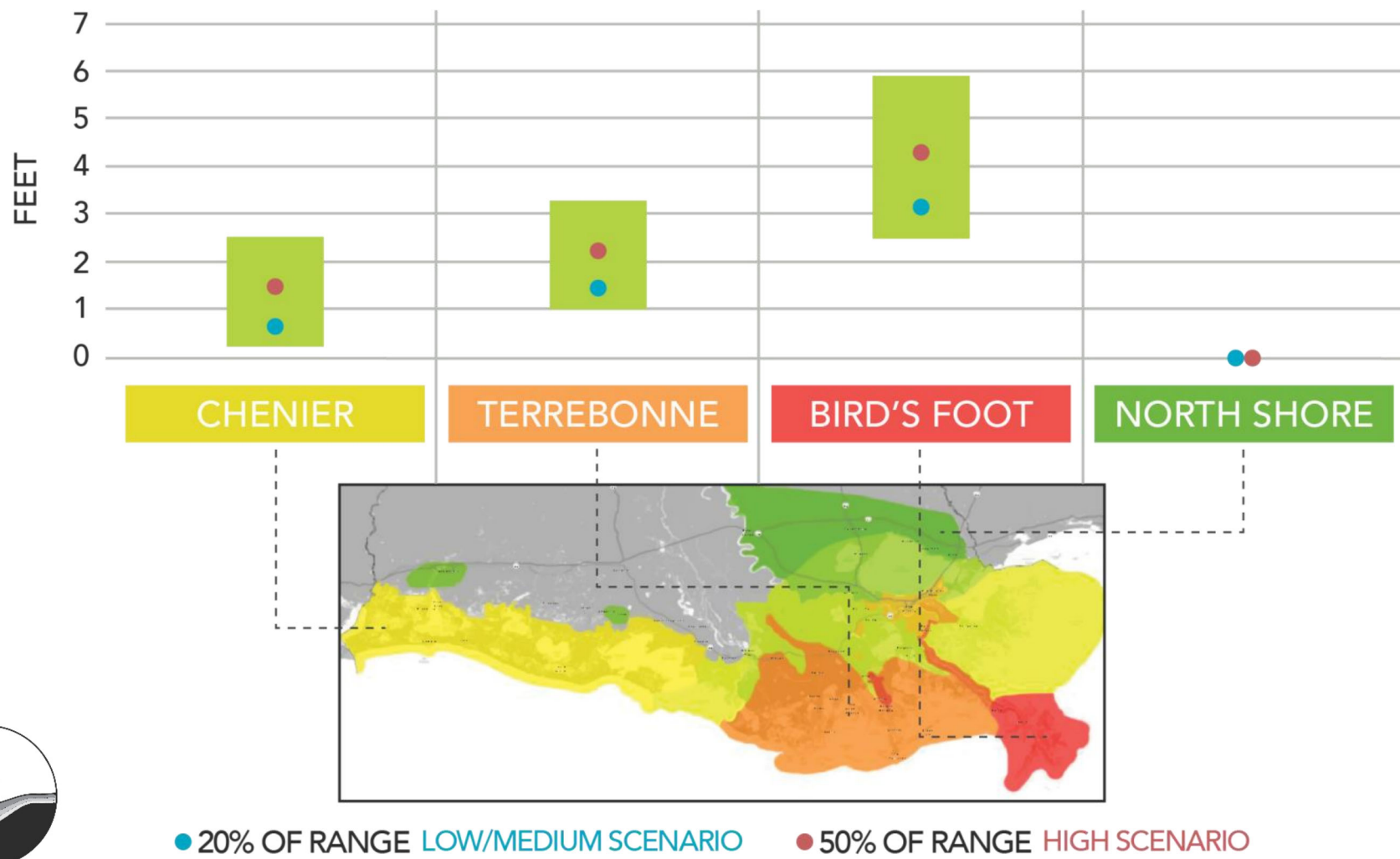
(FEET/50 YEARS)

RELATIVE SEA LEVEL RISE OVER 50 YEARS

SEA LEVEL RISE

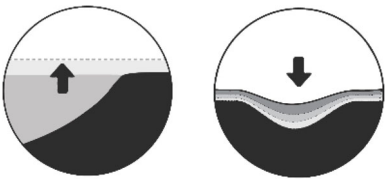
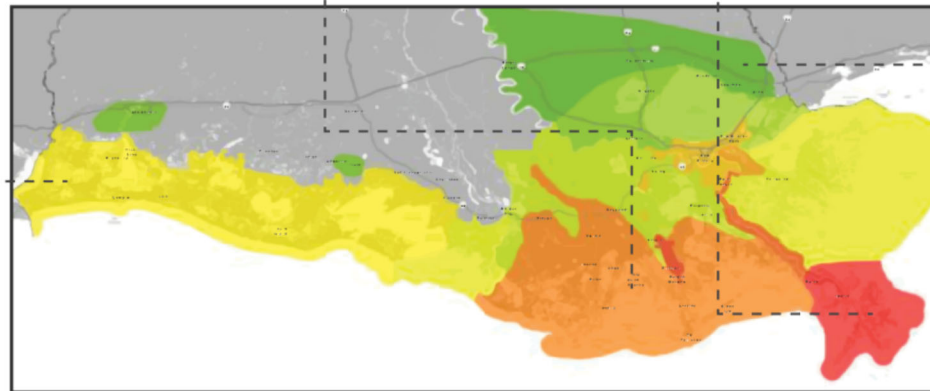
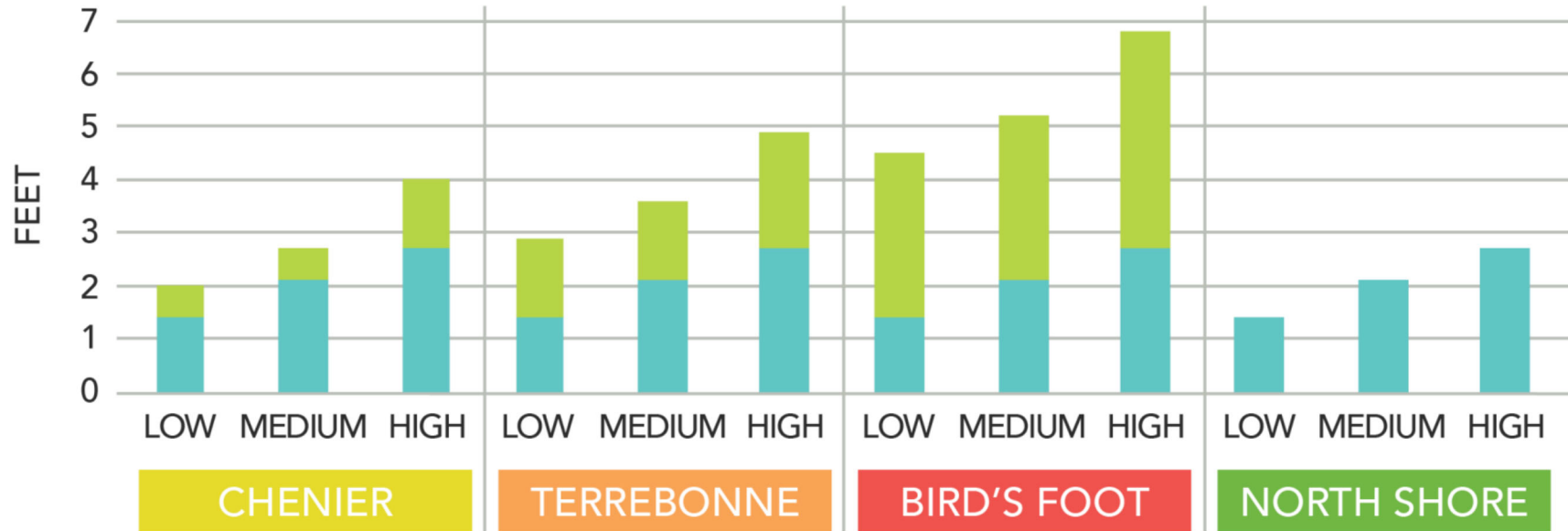


SUBSIDENCE RANGES

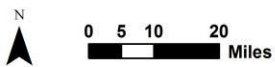
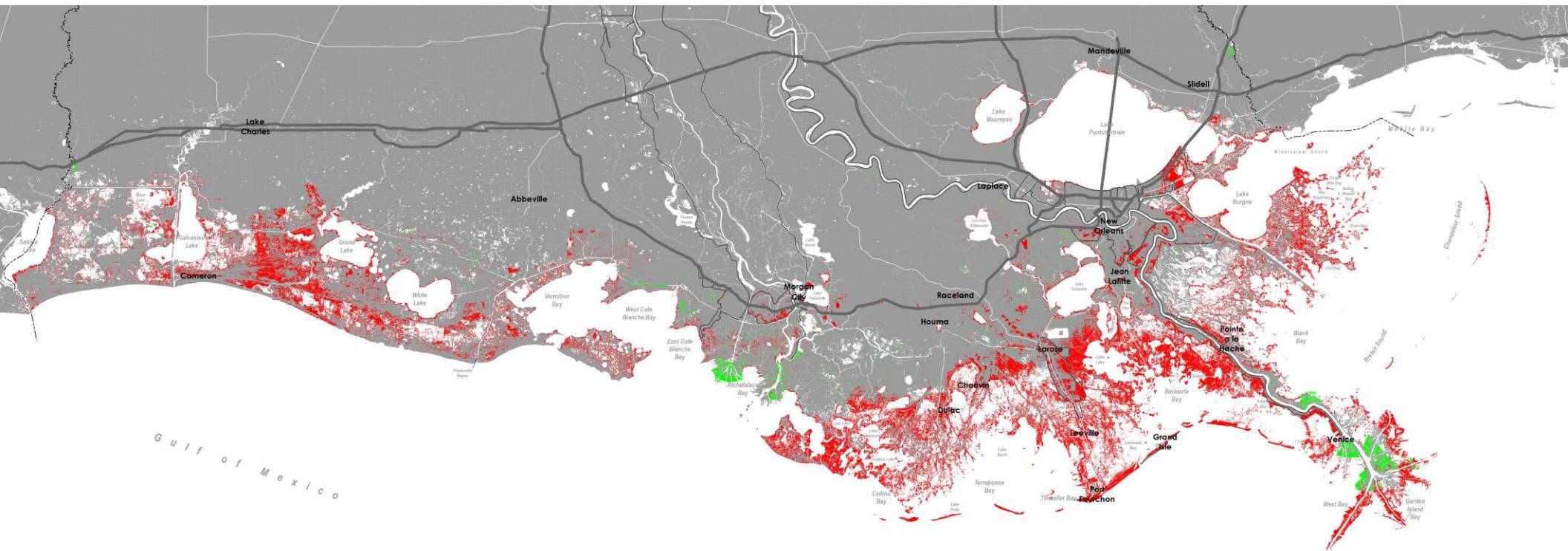


RELATIVE SEA LEVEL RISE OVER 50 YEARS

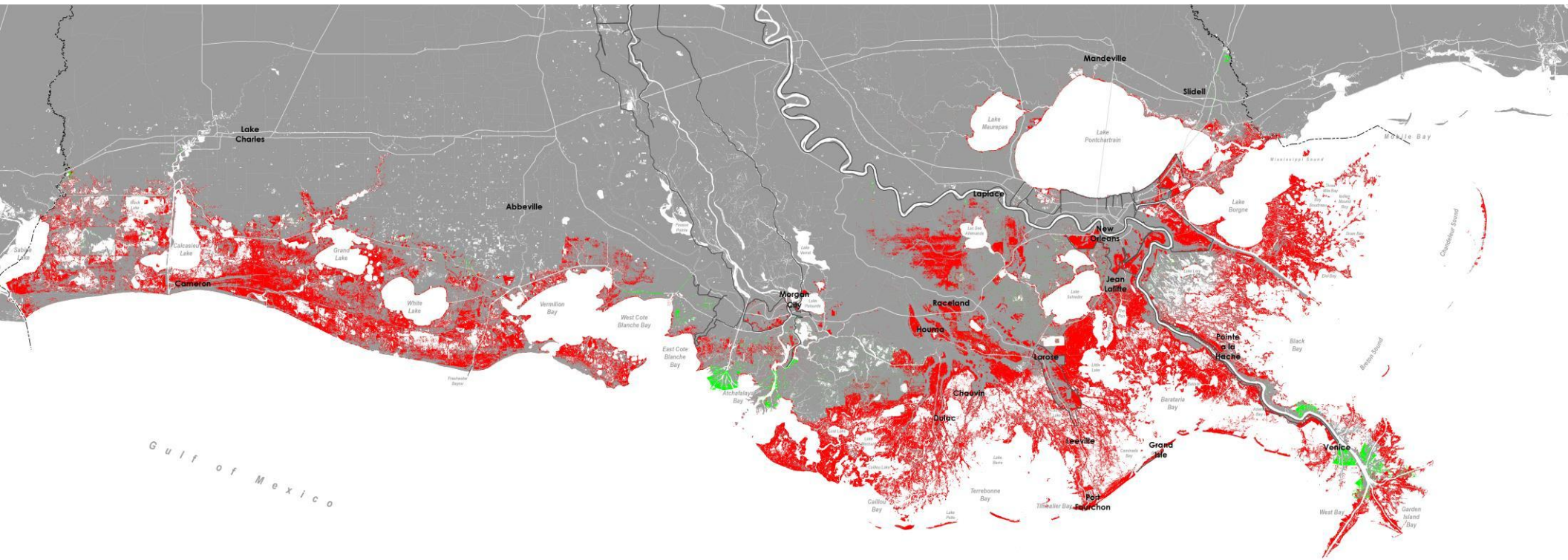
SEA LEVEL RISE + SUBSIDENCE



PREDICTED LAND CHANGE FUTURE WITHOUT ACTION YEAR 50, LOW SCENARIO



PREDICTED LAND CHANGE FUTURE WITHOUT ACTION YEAR 50, MEDIUM SCENARIO

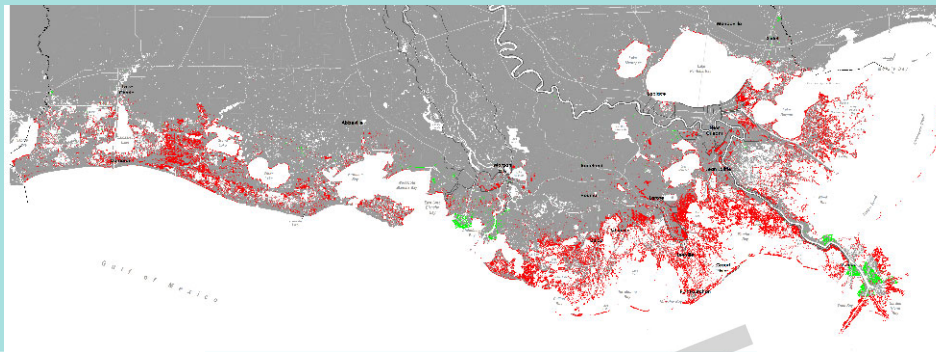


0 5 10 20
Miles

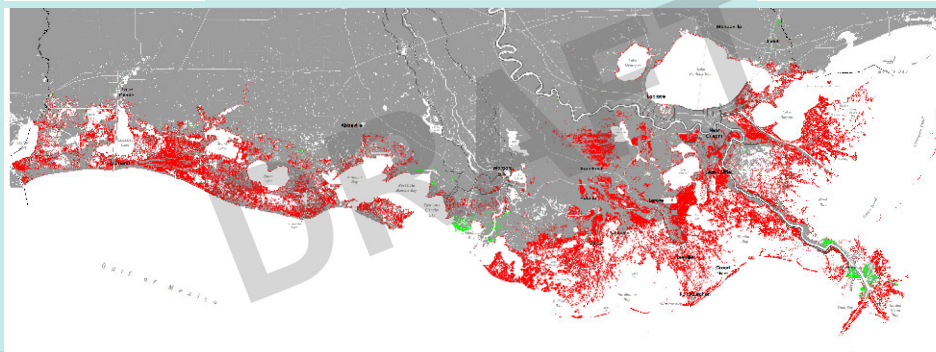


PREDICTED LAND CHANGE FUTURE WITHOUT ACTION YEAR 50

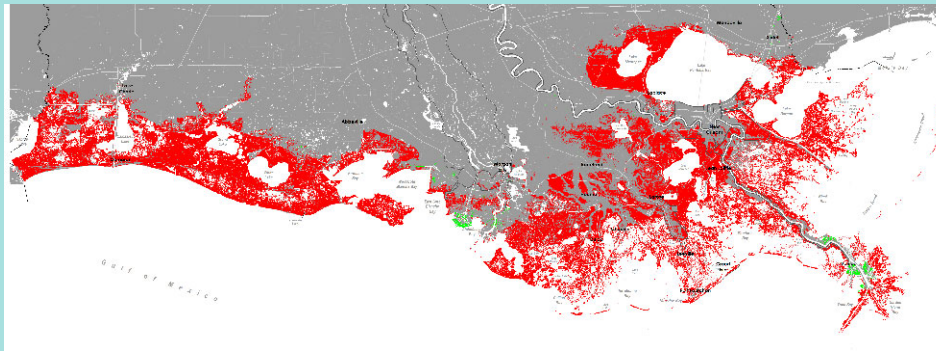
LOW



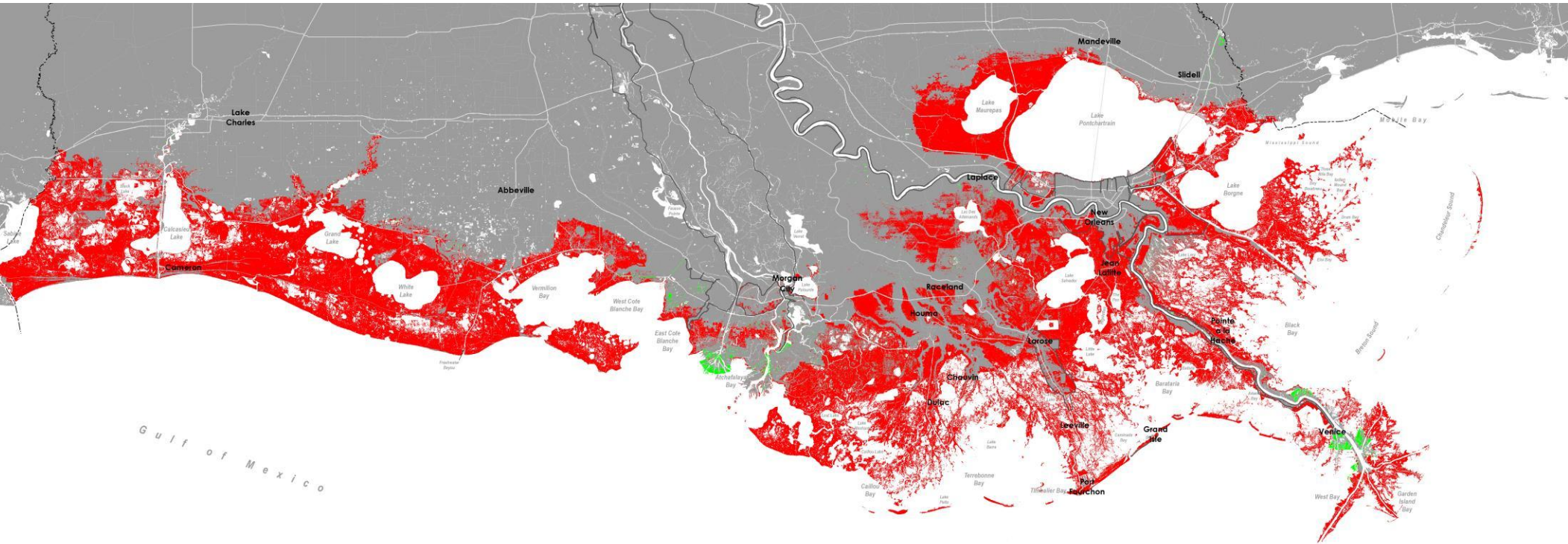
MEDIUM



HIGH



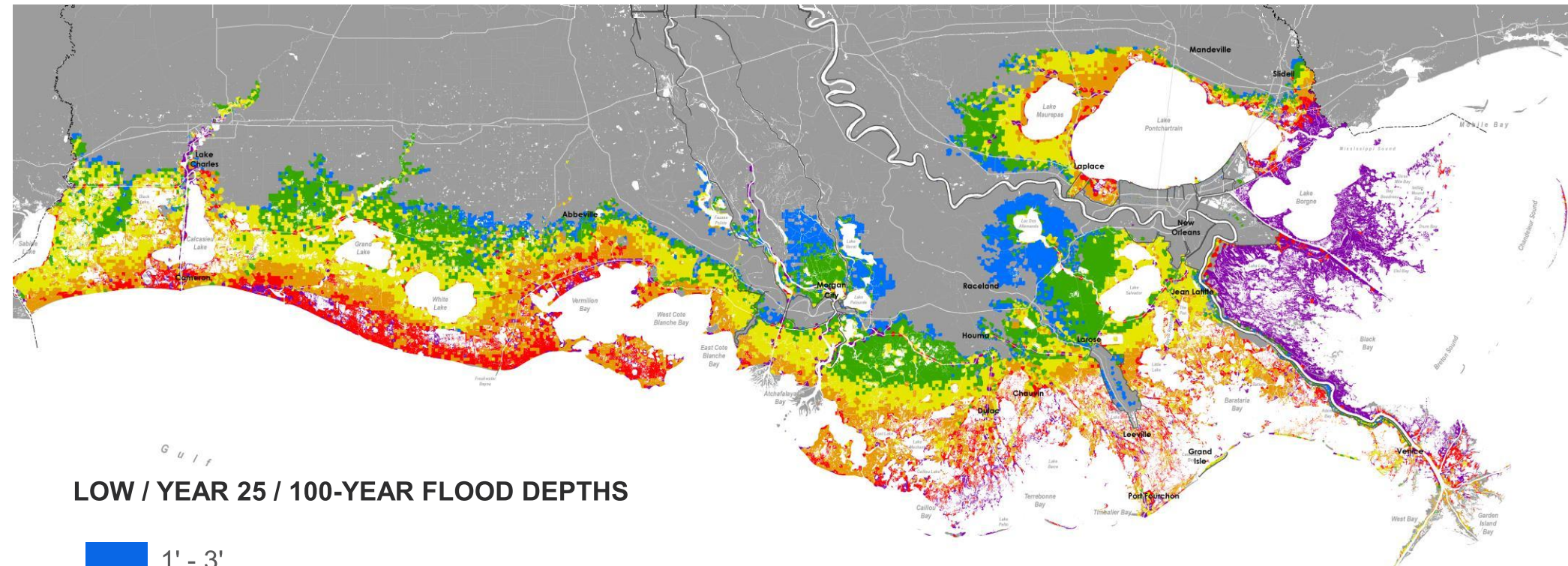
PREDICTED LAND CHANGE FUTURE WITHOUT ACTION YEAR 50, HIGH SCENARIO



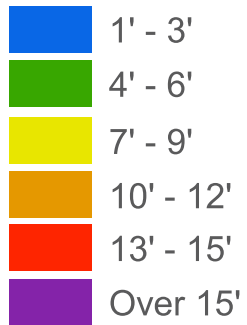
0 5 10 20
Miles



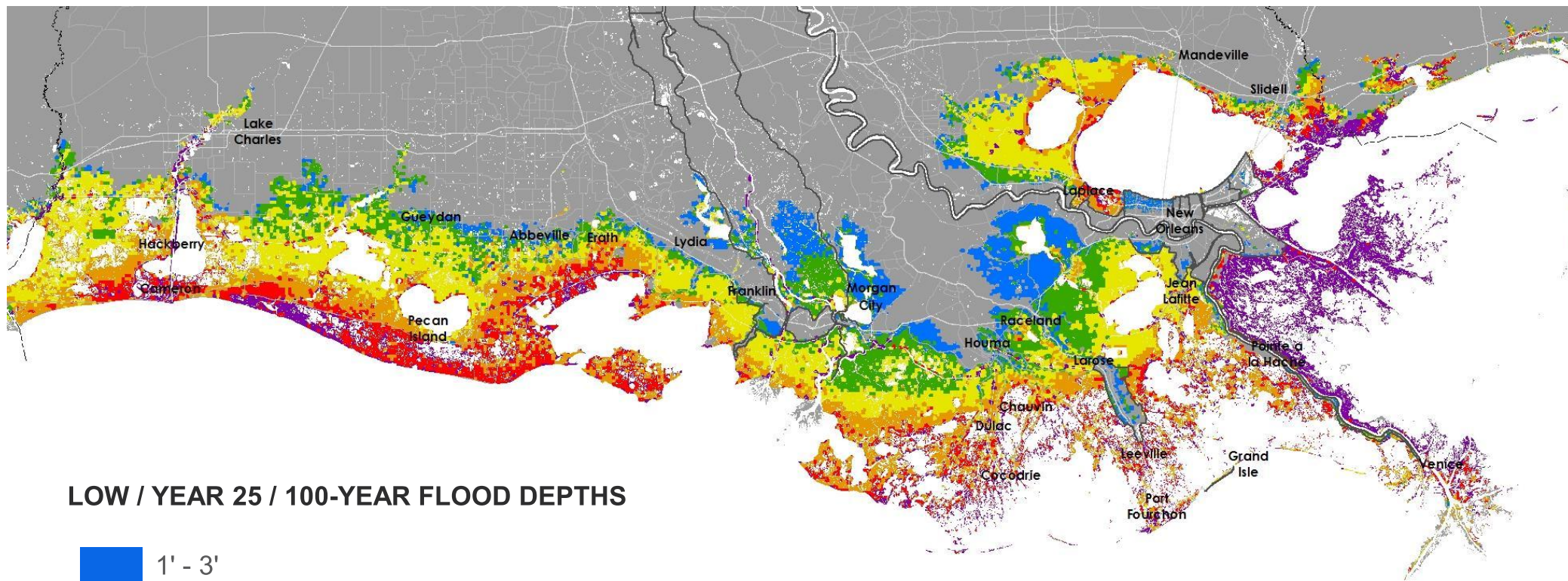
PREDICTED FLOOD DEPTHS FUTURE WITHOUT ACTION YEAR 10, LOW SCENARIO, 100-YEAR EVENT



LOW / YEAR 25 / 100-YEAR FLOOD DEPTHS



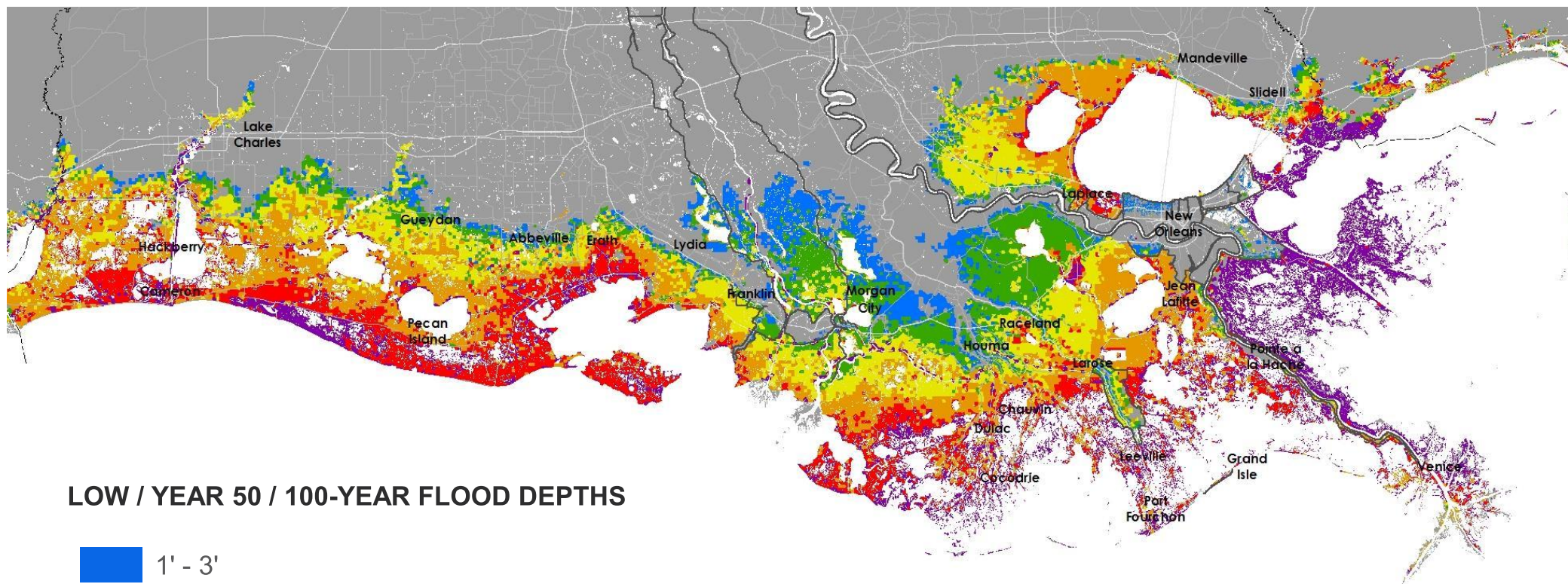
PREDICTED FLOOD DEPTHS FUTURE WITHOUT ACTION YEAR 25, LOW SCENARIO, 100-YEAR EVENT



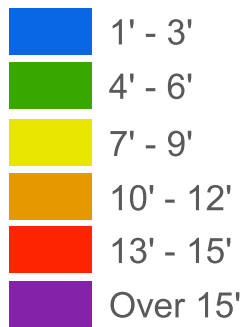
LOW / YEAR 25 / 100-YEAR FLOOD DEPTHS



PREDICTED FLOOD DEPTHS FUTURE WITHOUT ACTION YEAR 50, LOW SCENARIO, 100-YEAR EVENT



LOW / YEAR 50 / 100-YEAR FLOOD DEPTHS





QUESTIONS?

 coastal.la.gov





2017 COASTAL MASTER PLAN



THANK YOU

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