

## Annex 2

### Climate Projections for ARC3.2 Cities (corrected)

Presented here are climate projections for the ARC3-2 cities. ARC3.2 Cities include Case Study Docking Station cities, UCCRN Regional Hub cities, UCCRN project cities, and cities of ARC3.2 Chapter Authors. The projections are for three future timeslices (30-year periods for temperature and precipitation, 10-year periods for sea level rise) centered on the given decade (2020s, 2050s, 2080s).

For each city, the range presented for each variable is the low-estimate (10<sup>th</sup> percentile) to high-estimate (90<sup>th</sup> percentile) across 35 GCMs and two RCPs for temperature and precipitation projections (RCP4.5 and RCP8.5). Sea level rise projections are based on a four-component methodology that uses data from 24 GCMs and two RCPs (RCP4.5 and RCP8.5) and values are presented for only coastal cities<sup>1</sup>. Presented are the low-estimate (10<sup>th</sup> percentile) to high-estimate (90<sup>th</sup> percentile).

#### a. 2020s

City	Temperature (2020s)	Precipitation (2020s)	Sea Level Rise (2020s)
Aalborg	+0.5 to 2.1°C	-1 to +11%	
Abu Dhabi	+0.9 to 1.7°C	-25 to +33%	+4 to 19 cm
Accra	+0.7 to 1.1°C	-8 to +10%	+5 to 19 cm
Addis Ababa	+0.7 to 1.5°C	-7 to +10%	
Ahmedabad	+0.7 to 1.4°C	-6 to +37%	
Almada	+0.4 to 1.2°C	-14 to +1%	
Antofagasta	+0.6 to 1.3°C	-26 to +8%	+4 to 17 cm
Antwerp	+0.5 to 1.8°C	-2 to +8%	+4 to 22 cm
Athens	+0.8 to 1.7°C	-12 to +6%	+4 to 16 cm
Atlanta, GA	+0.8 to 1.6°C	-2 to +9%	
Bangalore	+0.6 to 1.2°C	-7 to +13%	
Bangkok	+0.7 to 1.3°C	-8 to +6%	+4 to 17 cm
Bath	+0.6 to 2.1°C	-2 to +11%	
Berkeley	+0.8 to 1.5°C	-3 to +10%	
Berlin	+0.9 to 1.9°C	0 to +10%	
Bilbao	+0.8 to 1.9°C	-4 to +8%	
Bobo-Dioulasso	+0.6 to 1.1°C	-10 to +8%	
Boston, MA	+0.5 to 1.8°C	-3 to +8%	+4 to 23 cm
Boulder	+0.3 to 1°C	-1 to +13%	

<sup>1</sup>Horton, R., Bader, D.A., Kushner, Y., Little, C., Blake, R. and Rosenzweig, C. (2015). New York City Panel on Climate Change 2015 Report: Climate observations and projections. *Ann. New York Acad. Sci.*, 1336, 18–35, doi:10.1111/nyas.12586

City	Temperature (2020s)	Precipitation (2020s)	Sea Level Rise (2020s)
Brisbane	+0.8 to 1.8°C	-22 to +17%	+4 to 18 cm
Brussels	+0.9 to 2°C	-1 to +12%	
Buenos Aires	+0.7 to 1.1°C	-5 to +7%	+4 to 16 cm
Cairo	+0.7 to 1.2°C	-7 to +8%	
Calgary	+0.5 to 1°C	-12 to -1%	
Can Tho	+0.7 to 1.5°C	-14 to +12%	+3 to 17 cm
Canberra	+0.6 to 1.1°C	-4 to +11%	
Cape Town	+0.6 to 2°C	-2 to +13%	+5 to 17 cm
Chula Vista	+0.6 to 1.3°C	-5 to +9%	+3 to 18 cm
Colombo	+0.5 to 1.2°C	-4 to +9%	+4 to 19 cm
Copenhagen	+0.6 to 1.1°C	-22 to +14%	+4 to 22 cm
Cubatao	+0.6 to 1.1°C	-11 to +9%	+5 to 18 cm
Curitiba	+0.5 to 1.5°C	-9 to +25%	
Dakar	+0.8 to 1.9°C	-4 to +7%	+5 to 17 cm
Dar es Salaam	+0.5 to 1.3°C	-4 to +16%	+5 to 19 cm
Delhi	+0.2 to 1.4°C	-2 to +8%	
Denver	+0.6 to 1.2°C	-5 to +6%	
Dhaka	+0.7 to 1.7°C	-17 to +28%	+3 to 19 cm
Dublin	+0.6 to 1.2°C	-4 to +9%	+4 to 21 cm
Durban	+0.7 to 1.9°C	-5 to +6%	+4 to 18 cm
Enschede	+0.3 to 1.5°C	-1 to +6%	
Faisalabad	+0.6 to 1.1°C	-11 to +6%	
Fort Lauderdale	+0.5 to 1.6°C	-14 to +27%	+5 to 20 cm
Geneva	+0.9 to 2.5°C	1 to +11%	
Genoa	+0.6 to 1.1°C	-7 to +7%	+4 to 16 cm
Glasgow	+0.6 to 1.3°C	-5 to +16%	
Gold Coast	+0.8 to 2°C	-7 to +7%	+4 to 18 cm
Gorakhpur	+0.7 to 1.2°C	-9 to +7%	
Gothenburg	+0.6 to 2°C	-2 to +10%	+5 to 22 cm
Gunnison	+0.8 to 1.8°C	-18 to +1%	
Hayama	+0.8 to 1.6°C	-8 to +4%	+3 to 19 cm
Helsinki	+0.5 to 1.4°C	-8 to +18%	+4 to 25 cm
Hoboken	+0.6 to 1.4°C	-6 to +12%	
Hong Kong	+1 to 1.9°C	-10 to +12%	+5 to 18 cm
Hyderabad	+0.5 to 1.3°C	-6 to +15%	
Indore	+0.7 to 1.2°C	-11 to +13%	
Istanbul	+0.6 to 1.1°C	-4 to +9%	+4 to 16 cm
Jakarta	+0.5 to 1.9°C	-2 to +8%	+4 to 17 cm
Jena	+0.8 to 1.4°C	-6 to +19%	
Jerusalem	+0.4 to 1.6°C	-3 to +6%	
Johannesburg	+0.7 to 1.5°C	-12 to +13%	
Kampala	+0.6 to 1°C	-8 to +5%	

City	Temperature (2020s)	Precipitation (2020s)	Sea Level Rise (2020s)
Kassel	+0.4 to 1.6°C	-2 to +8%	
Kathmandu	+0.6 to 1.1°C	-6 to +8%	
Kedarnath	+0.7 to 1.2°C	-10 to +8%	
Khulna	+0.6 to 1°C	-2 to +11%	+3 to 19 cm
Kingston	+0.7 to 1.3°C	-2 to +10%	+4 to 19 cm
Kunshan	+0.7 to 1.8°C	-15 to +5%	+3 to 19 cm
La Ceiba	+0.6 to 1.1°C	-9 to +4%	+5 to 18 cm
Lagos	+0.8 to 1.5°C	-9 to +6%	+5 to 19 cm
Leipzig	+0.6 to 1.2°C	-4 to +9%	
Leusden	+0.5 to 2°C	-2 to +10%	
Leuven	+1.1 to 2.6°C	0 to +14%	
Lima	+0.8 to 1.6°C	-21 to +32%	+4 to 17 cm
Lismore	+0.6 to 1.1°C	-9 to +5%	
London	+0.7 to 1.2°C	-5 to +26%	+5 to 22 cm
Los Angeles	+0.7 to 1.4°C	-6 to +25%	+4 to 18 cm
Makassar	+0.7 to 1.7°C	-10 to +4%	+4 to 17 cm
Manchester	+0.7 to 1.7°C	-3 to +11%	
Manila	+0.9 to 1.8°C	-1 to +10%	+3 to 19 cm
Maputo	+0.9 to 1.8°C	0 to +11%	+5 to 19 cm
Masdar	+0.7 to 1.7°C	-3 to +9%	+4 to 19 cm
Matara	+0.6 to 1.1°C	-10 to +8%	+4 to 19 cm
Medellin	+0.5 to 1.8°C	-4 to +5%	
Mediterranean Spain (Ebro Delta)	+0.9 to 1.9°C	-16 to +15%	+4 to 17 cm
Melbourne	+0.9 to 1.8°C	0 to +12%	+4 to 17 cm
Mexico City	+0.6 to 1.1°C	-11 to +9%	
Miami	+0.8 to 1.3°C	-4 to +11%	+5 to 20 cm
Middelfart	+0.7 to 1.8°C	-18 to +18%	+4 to 22 cm
Montreal	+0.5 to 1.1°C	-10 to +7%	
Moscow	+0.7 to 1.9°C	-9 to +5%	
Multan	+0.4 to 1.7°C	-1 to +9%	
Mumbai	+0.6 to 1.3°C	-8 to +12%	+4 to 19 cm
Nairobi	+0.4 to 1.1°C	-3 to +11%	
Nanjing	+0.5 to 1.3°C	-20 to +5%	
Naples	+0.7 to 1.2°C	-15 to +6%	+4 to 17 cm
New Brunswick	+0.6 to 1.3°C	-5 to +8%	
Newcastle upon Tyne	+0.8 to 2°C	-4 to +7%	
New Songdo City	+0.7 to 1.2°C	-10 to +5%	+3 to 20 cm
New York City	+0.7 to 1.7°C	-3 to +11%	+4 to 23 cm
Newark, DE	+0.7 to 1.6°C	-5 to +7%	
Norfolk	+0.6 to 1.3°C	-9 to +7%	+4 to 24 cm

City	Temperature (2020s)	Precipitation (2020s)	Sea Level Rise (2020s)
Nova Friburgo	+0.9 to 1.9°C	-9 to +13%	
Ottawa	+0.6 to 1.1°C	-5 to +5%	
Oujda	+0.5 to 1.5°C	-15 to +1%	
Paris	+0.9 to 1.9°C	0 to +10%	
Paveh	+0.9 to 1.9°C	-2 to +8%	
Peshawar	+0.7 to 1.3°C	-5 to +38%	
Philadelphia	+0.7 to 1.2°C	-7 to +8%	
Phitsanulok	+0.6 to 1°C	-3 to +10%	
Portmore	+0.7 to 1.2°C	-9 to +7%	+4 to 19 cm
Quito	+1 to 1.8°C	-8 to +9%	
Rawalpindi	+0.7 to 1.4°C	-5 to +5%	
Rio de Janeiro	+1 to 2.2°C	-1 to +9%	+4 to 18 cm
Rome	+0.7 to 1.2°C	-16 to +10%	+
Rotterdam	+0.8 to 1.8°C	-13 to +8%	+4 to 22 cm
San Diego	+0.7 to 2.1°C	-7 to +7%	+4 to 18 cm
San Francisco, CA	+0.8 to 2.2°C	-5 to +9%	+4 to 18 cm
San Jose	+0.7 to 2.2°C	-1 to +13%	
Santa Fe	+0.8 to 1.7°C	-1 to +11%	
Santiago	+0.9 to 2.1°C	-2 to +10%	
Santo Domingo	+0.7 to 1.6°C	-5 to +5%	+4 to 17 cm
Sao Paulo	+0.9 to 1.7°C	-31 to +43%	
Seattle	+0.9 to 1.8°C	-1 to +12%	+4 to 18 cm
Semarang	+0.8 to 1.4°C	-5 to +32%	+4 to 17 cm
Seoul	+0.6 to 1.1°C	-11 to +9%	
Shanghai	+0.7 to 1.3°C	-11 to +14%	+3 to 19 cm
Shenzhen	+0.5 to 2.3°C	1 to +12%	+5 to 18 cm
Shimla	+0.6 to 2°C	-2 to +10%	
Singapore	+0.9 to 1.8°C	-13 to +7%	+4 to 17 cm
Sintra	+0.9 to 1.8°C	-2 to +11%	+5 to 20 cm
Somerville, MA	+0.7 to 1.5°C	-5 to +5%	
St. Peters, MO	+0.6 to 1.4°C	-8 to +12%	
Surat	+0.5 to 1.9°C	-2 to +9%	+4 to 19 cm
Sydney	+0.6 to 2.1°C	-2 to +10%	+5 to 20 cm
Tacloban	+0.5 to 1.6°C	-8 to +2%	+3 to 19 cm
Tangerang Seltan	+0.7 to 1.9°C	-9 to +5%	+3 to 19 cm
Tehran	+0.5 to 1.8°C	-1 to +9%	
Tempe	+0.4 to 1.6°C	-1 to +8%	
Tokyo	+0.9 to 1.8°C	-1 to +10%	+3 to 19 cm
Toronto	+0.7 to 1.5°C	-5 to +7%	
Townsville	+0.7 to 1.9°C	-7 to +8%	+4 to 18 cm
Trondheim	+0.7 to 1.3°C	-4 to +5%	+5 to 23 cm
Tsukuba	+1 to 2.3°C	0 to +10%	

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<b>City</b>	<b>Temperature (2020s)</b>	<b>Precipitation (2020s)</b>	<b>Sea Level Rise (2020s)</b>
Tucson	+0.9 to 1.7°C	-20 to -1%	
Udon Thani	+1 to 1.9°C	-12 to +8%	
Venice	+0.4 to 1.6°C	-3 to +6%	+4 to 16 cm
Victoria	+0.7 to 1.8°C	-2 to +7%	+4 to 18 cm
Vienna	+0.7 to 1.2°C	-8 to +7%	
Warsaw	+0.7 to 1.3°C	-7 to +6%	
Washington, D.C.	+0.5 to 1.5°C	-2 to +7%	
Waterloo	+1 to 2.2°C	0 to +9%	
White Plains	+0.4 to 1.7°C	0 to +9%	
Windsor	+0.6 to 1.3°C	-13 to +12%	

## b. 2050s

City	Temperature (2050s)	Precipitation (2050s)	Sea Level Rise (2050s)
Aalborg	+1.1 to 3.7°C	-1 to +14%	
Abu Dhabi	+1.6 to 3.4°C	-32 to +49%	+15 to 60 cm
Accra	+1.2 to 2.4°C	-12 to +11%	+17 to 58 cm
Addis Ababa	+1.4 to 3.3°C	-6 to +16%	
Ahmedabad	+1.6 to 3.1°C	-5 to +53%	
Almada	+0.8 to 2.3°C	-26 to -2%	
Antofagasta	+1.2 to 2.9°C	-35 to +30%	+13 to 55 cm
Antwerp	+1.1 to 3°C	-3 to +12%	+18 to 70 cm
Athens	+1.4 to 3.1°C	-22 to +4%	+15 to 55 cm
Atlanta, GA	+1.6 to 3.1°C	-2 to +13%	
Bangalore	+1.3 to 2.6°C	-5 to +18%	
Bangkok	+1.2 to 2.8°C	-9 to +14%	+15 to 57 cm
Bath	+1.3 to 3.6°C	-2 to +16%	
Berkeley	+1.4 to 3.2°C	-7 to +12%	
Berlin	+1.6 to 3.9°C	0 to +14%	
Bilbao	+1.7 to 3.8°C	-4 to +10%	
Bobo-Dioulasso	+1.2 to 2.2°C	-15 to +7%	
Boston, MA	+1.2 to 3°C	-4 to +12%	+16 to 70 cm
Boulder	+0.8 to 2°C	-1 to +15%	
Brisbane	+1.5 to 3.4°C	-31 to +9%	+15 to 58 cm
Brussels	+1.7 to 3.9°C	-1 to +17%	
Buenos Aires	+1.2 to 2.2°C	-3 to +15%	+14 to 54 cm
Cairo	+1.4 to 2.5°C	-10 to +10%	
Calgary	+1 to 1.9°C	-23 to -5%	
Can Tho	+1.3 to 3.1°C	-20 to +11%	+14 to 58 cm
Canberra	+1.1 to 2.3°C	-2 to +19%	
Cape Town	+1.2 to 3.7°C	-1 to +18%	+16 to 57 cm
Chula Vista	+1.1 to 2.6°C	-6 to +15%	+14 to 56 cm
Colombo	+1 to 2.4°C	-3 to +16%	+14 to 59 cm
Copenhagen	+1.1 to 2.3°C	-31 to +27%	+16 to 70 cm
Cubatao	+1.2 to 2.1°C	-14 to +13%	+14 to 56 cm
Curitiba	+1.5 to 3.3°C	-13 to +28%	
Dakar	+1.8 to 3.8°C	-6 to +8%	+15 to 56 cm
Dar es Salaam	+1.2 to 3°C	-5 to +30%	+15 to 60 cm
Delhi	+0.7 to 2.5°C	-2 to +12%	
Denver	+1.2 to 2.3°C	-9 to +7%	
Dhaka	+1.7 to 3.7°C	-21 to +34%	+14 to 57 cm
Dublin	+1.2 to 2.5°C	-5 to +12%	+15 to 65 cm
Durban	+1.3 to 3.5°C	-8 to +6%	+14 to 58 cm

City	Temperature (2050s)	Precipitation (2050s)	Sea Level Rise (2050s)
Enschede	+0.8 to 2.6°C	0 to +10%	
Faisalabad	+1.1 to 2.2°C	-14 to +6%	
Fort Lauderdale	+1.6 to 3.3°C	-19 to +33%	+15 to 62 cm
Geneva	+1.6 to 4.5°C	3 to +16%	
Genoa	+1.1 to 2.5°C	-5 to +13%	+15 to 56 cm
Glasgow	+1.4 to 2.9°C	-3 to +30%	
Gold Coast	+1.4 to 3.4°C	-15 to +5%	+15 to 58 cm
Gorakhpur	+1.2 to 2.5°C	-11 to +12%	
Gothenburg	+1.3 to 3.5°C	-2 to +13%	+17 to 70 cm
Gunnison	+1.6 to 3.4°C	-27 to -1%	
Hayama	+1.6 to 3.2°C	-10 to +7%	+13 to 65 cm
Helsinki	+0.9 to 2.9°C	-9 to +26%	+18 to 75 cm
Hoboken	+1.4 to 3°C	-4 to +24%	
Hong Kong	+1.9 to 4.2°C	-12 to +10%	+15 to 60 cm
Hyderabad	+1 to 2.8°C	-6 to +34%	
Indore	+1.2 to 2.4°C	-20 to +14%	
Istanbul	+1.1 to 2.6°C	-10 to +10%	+15 to 55 cm
Jakarta	+1.1 to 3.1°C	-3 to +12%	+14 to 58 cm
Jena	+1.4 to 2.9°C	-7 to +33%	
Jerusalem	+1 to 2.7°C	-4 to +10%	
Johannesburg	+1.4 to 2.9°C	-20 to +9%	
Kampala	+1.1 to 2.1°C	-10 to +11%	
Kassel	+0.9 to 2.8°C	-3 to +11%	
Kathmandu	+1.1 to 2.1°C	-3 to +14%	
Kedarnath	+1.3 to 2.6°C	-15 to +8%	
Khulna	+1.1 to 2.1°C	2 to +20%	+14 to 57 cm
Kingston	+1.4 to 2.8°C	-4 to +14%	+14 to 57 cm
Kunshan	+1.3 to 3.2°C	-16 to +3%	+13 to 59 cm
La Ceiba	+1.3 to 2.2°C	-14 to +5%	+15 to 59 cm
Lagos	+1.5 to 3°C	-14 to +7%	+16 to 58 cm
Leipzig	+1.2 to 2.4°C	-5 to +11%	
Leusden	+1.1 to 3.6°C	-2 to +12%	
Leuven	+1.8 to 4.7°C	-1 to +19%	
Lima	+1.9 to 3.7°C	-18 to +40%	+14 to 55 cm
Lismore	+1.2 to 2.2°C	-13 to +7%	
London	+1.3 to 2.5°C	-2 to +43%	+17 to 70 cm
Los Angeles	+1.3 to 2.6°C	-10 to +41%	+14 to 56 cm
Makassar	+1.3 to 3.3°C	-17 to +1%	+15 to 58 cm
Manchester	+1.6 to 3.4°C	1 to +19%	
Manila	+1.7 to 3.7°C	1 to +13%	+14 to 60 cm
Maputo	+1.8 to 3.5°C	1 to +14%	+15 to 58 cm
Masdar	+1.6 to 3.2°C	-2 to +13%	+15 to 60 cm

City	Temperature (2050s)	Precipitation (2050s)	Sea Level Rise (2050s)
Matara	+1 to 2.3°C	-14 to +12%	+14 to 59 cm
Medellin	+1.3 to 3.2°C	-6 to +8%	
Mediterranean Spain (Ebro Delta)	+1.8 to 3.9°C	-20 to +20%	+15 to 57 cm
Melbourne	+1.8 to 3.5°C	1 to +13%	+12 to 56 cm
Mexico City	+1.1 to 2.2°C	-21 to +4%	
Miami	+1.3 to 2.6°C	-4 to +19%	+15 to 62 cm
Middelfart	+1.8 to 3.9°C	-21 to +23%	+16 to 70 cm
Montreal	+1 to 2.1°C	-14 to +10%	
Moscow	+1.5 to 3.5°C	-16 to +3%	
Multan	+1.1 to 2.9°C	-2 to +14%	
Mumbai	+1.2 to 2.8°C	-12 to +14%	+15 to 58 cm
Nairobi	+0.9 to 2.2°C	-4 to +16%	
Nanjing	+1.2 to 2.5°C	-31 to -1%	
Naples	+1.1 to 2.4°C	-26 to +2%	+15 to 56 cm
New Brunswick	+1.2 to 2.6°C	-6 to +13%	
Newcastle upon Tyne	+1.4 to 3.7°C	-3 to +10%	
New Songdo City	+1.1 to 2.4°C	-12 to +12%	+13 to 60 cm
New York City	+1.5 to 3.4°C	1 to +19%	+16 to 71 cm
Newark, DE	+1.4 to 3.1°C	-2 to +9%	
Norfolk	+1.2 to 2.8°C	-6 to +12%	+15 to 67 cm
Nova Friburgo	+1.9 to 3.9°C	-13 to +17%	
Ottawa	+1.1 to 2.3°C	-5 to +12%	
Oujda	+0.9 to 2.7°C	-28 to -2%	
Paris	+1.7 to 3.9°C	1 to +14%	
Paveh	+1.8 to 4°C	-3 to +11%	
Peshawar	+1.4 to 2.9°C	-2 to +49%	
Philadelphia	+1.3 to 2.4°C	-9 to +11%	
Phitsanulok	+1.1 to 2.1°C	0 to +15%	
Portmore	+1.2 to 2.5°C	-11 to +12%	+14 to 57 cm
Quito	+1.9 to 3.6°C	-12 to +11%	
Rawalpindi	+1.4 to 3°C	-5 to +11%	
Rio de Janeiro	+2.1 to 4.2°C	2 to +12%	+15 to 56 cm
Rome	+1.1 to 2.3°C	-19 to +16%	
Rotterdam	+1.7 to 3.4°C	-14 to +7%	+18 to 70 cm
San Diego	+1.4 to 3.6°C	-10 to +8%	+14 to 56 cm
San Francisco, CA	+1.4 to 3.9°C	-5 to +11%	+14 to 56 cm
San Jose	+1.5 to 3.9°C	-3 to +13%	
Santa Fe	+1.7 to 3.5°C	1 to +14%	
Santiago	+2 to 3.9°C	0 to +14%	
Santo Domingo	+1.5 to 3.3°C	-3 to +10%	+14 to 56 cm

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<b>City</b>	<b>Temperature (2050s)</b>	<b>Precipitation (2050s)</b>	<b>Sea Level Rise (2050s)</b>
Sao Paulo	+1.7 to 3.6°C	-32 to +58%	
Seattle	+1.7 to 3.6°C	1 to +13%	+14 to 56 cm
Semarang	+1.5 to 3.1°C	-7 to +47%	+14 to 58 cm
Seoul	+1.1 to 2.2°C	-23 to +2%	
Shanghai	+1.2 to 2.6°C	-20 to +18%	+13 to 59 cm
Shenzhen	+1.4 to 3.9°C	5 to +19%	+15 to 60 cm
Shimla	+1.3 to 3.5°C	-3 to +13%	
Singapore	+1.7 to 3.5°C	-17 to +6%	+15 to 58 cm
Sintra	+1.7 to 3.6°C	0 to +13%	+15 to 61 cm
Somerville, MA	+1.4 to 3°C	-5 to +9%	
St. Peters, MO	+1.2 to 2.9°C	-13 to +13%	
Surat	+1.2 to 3.2°C	-3 to +13%	+15 to 58 cm
Sydney	+1.3 to 3.5°C	-1 to +14%	+16 to 64 cm
Tacloban	+1.1 to 3°C	-15 to -2%	+14 to 61 cm
Tangerang Seltan	+1.4 to 3.5°C	-14 to +4%	+14 to 57 cm
Tehran	+1.1 to 2.9°C	-2 to +13%	
Tempe	+0.9 to 2.8°C	-1 to +10%	
Tokyo	+1.7 to 3.7°C	1 to +13%	+13 to 65 cm
Toronto	+1.6 to 3.4°C	-3 to +12%	
Townsville	+1.8 to 3.8°C	-8 to +9%	+16 to 58 cm
Trondheim	+1.4 to 3°C	-2 to +11%	+17 to 70 cm
Tsukuba	+2 to 4.4°C	2 to +15%	
Tucson	+1.6 to 3.5°C	-29 to -5%	
Udon Thani	+1.9 to 3.9°C	-22 to +9%	
Venice	+1 to 2.7°C	-4 to +9%	+15 to 56 cm
Victoria	+1.4 to 3.4°C	-1 to +10%	+14 to 56 cm
Vienna	+1.4 to 2.8°C	-7 to +13%	
Warsaw	+1.3 to 2.8°C	-3 to +16%	
Washington, D.C.	+1.2 to 2.9°C	2 to +13%	
Waterloo	+2.1 to 4.2°C	1 to +15%	
White Plains	+0.8 to 2.8°C	0 to +13%	
Windsor	+1.3 to 2.7°C	-20 to +11%	

### c. 2080s

City	Temperature (2080s)	Precipitation (2080s)	Sea Level Rise (2080s)
Aalborg	+1.6 to 5.4°C	1 to +22%	
Abu Dhabi	+1.9 to 5.6°C	-39 to +78%	+23 to 124 cm
Accra	+1.4 to 3.9°C	-15 to +15%	+23 to 119 cm
Addis Ababa	+1.8 to 5.3°C	-3 to +28%	
Ahmedabad	+1.9 to 5°C	-9 to +90%	
Almada	+1.3 to 3.4°C	-39 to -5%	
Antofagasta	+1.4 to 4.6°C	-29 to +47%	+20 to 116 cm
Antwerp	+1.5 to 4.9°C	-5 to +14%	+25 to 140 cm
Athens	+1.7 to 4.9°C	-33 to +2%	+22 to 116 cm
Atlanta, GA	+2.1 to 5.1°C	-4 to +16%	
Bangalore	+1.5 to 4.5°C	-1 to +45%	
Bangkok	+1.5 to 4.7°C	-12 to +25%	+21 to 122 cm
Bath	+1.7 to 5.6°C	-4 to +18%	
Berkeley	+1.8 to 5.6°C	-11 to +15%	
Berlin	+2.2 to 6.1°C	3 to +19%	
Bilbao	+2 to 6.1°C	-7 to +12%	
Bobo-Dioulasso	+1.4 to 3.9°C	-21 to +11%	
Boston, MA	+1.5 to 4.9°C	-6 to +14%	+23 to 141 cm
Boulder	+1.2 to 3.5°C	0 to +21%	
Brisbane	+1.8 to 5.4°C	-42 to +10%	+23 to 124 cm
Brussels	+2.1 to 6.2°C	-5 to +18%	
Buenos Aires	+1.4 to 3.7°C	-5 to +24%	+19 to 115 cm
Cairo	+1.6 to 4.3°C	-14 to +9%	
Calgary	+1.2 to 3.4°C	-32 to -7%	
Can Tho	+1.8 to 4.9°C	-25 to +15%	+21 to 122 cm
Canberra	+1.4 to 3.8°C	3 to +30%	
Cape Town	+1.7 to 5.4°C	1 to +23%	+22 to 118 cm
Chula Vista	+1.5 to 4.3°C	-7 to +23%	+21 to 118 cm
Colombo	+1.5 to 3.9°C	-2 to +25%	+22 to 122 cm
Copenhagen	+1.4 to 3.8°C	-41 to +43%	+25 to 140 cm
Cubatao	+1.5 to 3.7°C	-19 to +22%	+22 to 118 cm
Curitiba	+2 to 5.6°C	-11 to +38%	
Dakar	+2 to 6.1°C	-7 to +9%	+22 to 118 cm
Dar es Salaam	+1.4 to 4.9°C	-6 to +41%	+22 to 122 cm
Delhi	+0.9 to 3.9°C	-2 to +14%	
Denver	+1.5 to 3.9°C	-10 to +11%	
Dhaka	+2.3 to 5.9°C	-24 to +36%	+21 to 122 cm
Dublin	+1.4 to 4°C	-11 to +13%	+24 to 131 cm
Durban	+2 to 5.8°C	-11 to +8%	+20 to 118 cm

City	Temperature (2080s)	Precipitation (2080s)	Sea Level Rise (2080s)
Enschede	+1.2 to 4.1°C	1 to +12%	
Faisalabad	+1.4 to 3.6°C	-21 to +10%	
Fort Lauderdale	+2 to 5.6°C	-15 to +41%	+21 to 123 cm
Geneva	+2.4 to 6.9°C	4 to +24%	
Genoa	+1.5 to 4.1°C	-5 to +21%	+22 to 118 cm
Glasgow	+1.6 to 4.9°C	1 to +48%	
Gold Coast	+1.6 to 5.3°C	-21 to +9%	+23 to 124 cm
Gorakhpur	+1.4 to 4°C	-13 to +21%	
Gothenburg	+1.8 to 5.5°C	-4 to +16%	+24 to 140 cm
Gunnison	+1.9 to 5.4°C	-41 to -5%	
Hayama	+2.1 to 5.7°C	-14 to +6%	+20 to 129 cm
Helsinki	+1.4 to 4.7°C	-8 to +44%	+26 to 148 cm
Hoboken	+1.8 to 5.2°C	-3 to +33%	
Hong Kong	+2.3 to 6.8°C	-13 to +20%	+22 to 123 cm
Hyderabad	+1.4 to 4.8°C	-5 to +38%	
Indore	+1.4 to 4°C	-35 to +23%	
Istanbul	+1.5 to 4.4°C	-12 to +14%	+22 to 116 cm
Jakarta	+1.5 to 5.1°C	-5 to +14%	+21 to 122 cm
Jena	+1.7 to 4.7°C	-6 to +63%	
Jerusalem	+1.4 to 4.5°C	-6 to +11%	
Johannesburg	+1.7 to 4.9°C	-21 to +15%	
Kampala	+1.3 to 3.6°C	-13 to +16%	
Kassel	+1.3 to 4.5°C	-5 to +15%	
Kathmandu	+1.4 to 3.6°C	-3 to +21%	
Kedarnath	+1.6 to 4.3°C	-18 to +9%	
Khulna	+1.4 to 3.7°C	1 to +32%	+21 to 122 cm
Kingston	+1.7 to 4.6°C	-6 to +16%	+20 to 119 cm
Kunshan	+1.8 to 5.1°C	-24 to +3%	+21 to 122 cm
La Ceiba	+1.5 to 3.9°C	-20 to +3%	+21 to 122 cm
Lagos	+1.8 to 5.1°C	-23 to +7%	+23 to 120 cm
Leipzig	+1.4 to 4°C	-11 to +11%	
Leusden	+1.4 to 5.2°C	1 to +20%	
Leuven	+2.6 to 7.1°C	1 to +25%	
Lima	+2.3 to 6.1°C	-24 to +41%	+21 to 117 cm
Lismore	+1.5 to 3.8°C	-17 to +10%	
London	+1.6 to 4.4°C	-2 to +64%	+24 to 139 cm
Los Angeles	+1.6 to 4.4°C	-7 to +66%	+21 to 118 cm
Makassar	+1.8 to 5.3°C	-25 to +2%	+22 to 122 cm
Manchester	+2 to 5.5°C	5 to +25%	
Manila	+2.1 to 5.7°C	2 to +19%	+21 to 124 cm
Maputo	+2.2 to 5.6°C	2 to +19%	+22 to 120 cm
Masdar	+2 to 5.1°C	-2 to +16%	+23 to 124 cm

City	Temperature (2080s)	Precipitation (2080s)	Sea Level Rise (2080s)
Matara	+1.4 to 4.1°C	-21 to +13%	+22 to 122 cm
Medellin	+1.6 to 5.2°C	-9 to +7%	
Mediterranean Spain (Ebro Delta)	+2.4 to 6.1°C	-27 to +21%	+22 to 119 cm
Melbourne	+2.3 to 5.6°C	2 to +19%	+18 to 116 cm
Mexico City	+1.3 to 3.6°C	-38 to +6%	
Miami	+1.6 to 4.4°C	-6 to +30%	+21 to 123 cm
Middelfart	+2.3 to 5.9°C	-24 to +20%	+25 to 140 cm
Montreal	+1.3 to 3.7°C	-21 to +16%	
Moscow	+2 to 5.6°C	-22 to +2%	
Multan	+1.4 to 4.6°C	-3 to +16%	
Mumbai	+1.5 to 4.4°C	-11 to +22%	+23 to 122 cm
Nairobi	+1.1 to 3.7°C	-3 to +21%	
Nanjing	+1.4 to 4.2°C	-44 to -3%	
Naples	+1.4 to 4°C	-39 to +7%	+22 to 116 cm
New Brunswick	+1.6 to 4.3°C	-7 to +21%	
Newcastle upon Tyne	+1.9 to 5.7°C	-1 to +12%	
New Songdo City	+1.3 to 4°C	-17 to +18%	+20 to 124 cm
New York City	+1.9 to 5.5°C	4 to +25%	+23 to 139 cm
Newark, DE	+1.8 to 4.9°C	-3 to +15%	
Norfolk	+1.6 to 4.6°C	-7 to +18%	+23 to 129 cm
Nova Friburgo	+2.2 to 5.9°C	-11 to +28%	
Ottawa	+1.4 to 3.9°C	-4 to +18%	
Oujda	+1.4 to 4°C	-38 to -5%	
Paris	+2.2 to 6.1°C	3 to +19%	
Paveh	+2.2 to 6°C	-4 to +14%	
Peshawar	+1.7 to 4.9°C	-4 to +100%	
Philadelphia	+1.5 to 4.2°C	-13 to +13%	
Phitsanulok	+1.4 to 3.5°C	-2 to +24%	
Portmore	+1.4 to 4°C	-13 to +21%	+20 to 119 cm
Quito	+2.4 to 6°C	-19 to +14%	
Rawalpindi	+1.7 to 4.8°C	-7 to +13%	
Rio de Janeiro	+2.4 to 6.7°C	0 to +17%	+21 to 118 cm
Rome	+1.4 to 4°C	-28 to +17%	
Rotterdam	+2 to 5.9°C	-22 to +10%	+25 to 140 cm
San Diego	+1.9 to 5.8°C	-12 to +9%	+21 to 118 cm
San Francisco, CA	+1.8 to 5.8°C	-7 to +12%	+21 to 118 cm
San Jose	+2 to 6°C	-2 to +17%	
Santa Fe	+2.2 to 5.4°C	2 to +20%	
Santiago	+2.3 to 6.5°C	0 to +18%	
Santo Domingo	+1.9 to 5.6°C	-2 to +15%	+20 to 117 cm

Rosenzweig, C., Solecki, W., Romero-Lankao, P., Mehrotra, S., Dhakal, S., & Ali Ibrahim, S. (Eds.). (2018). *Climate Change and Cities: Second Assessment Report of the Urban Climate Change Research Network*. Cambridge University Press.

<b>City</b>	<b>Temperature (2080s)</b>	<b>Precipitation (2080s)</b>	<b>Sea Level Rise (2080s)</b>
Sao Paulo	+2.1 to 6°C	-38 to +81%	
Seattle	+2.2 to 5.6°C	2 to +19%	+21 to 118 cm
Semarang	+1.9 to 5.2°C	-5 to +73%	+21 to 122 cm
Seoul	+1.3 to 3.6°C	-38 to +5%	
Shanghai	+1.4 to 4.6°C	-33 to +22%	+21 to 122 cm
Shenzhen	+1.8 to 5.9°C	7 to +24%	+22 to 123 cm
Shimla	+1.8 to 5.4°C	-4 to +16%	
Singapore	+2.1 to 5.8°C	-19 to +8%	+21 to 122 cm
Sintra	+2.1 to 5.7°C	1 to +19%	+22 to 126 cm
Somerville, MA	+1.7 to 4.8°C	-7 to +12%	
St. Peters, MO	+1.5 to 4.5°C	-13 to +21%	
Surat	+1.5 to 5.2°C	-4 to +17%	+23 to 122 cm
Sydney	+1.8 to 5.5°C	-3 to +16%	+24 to 128 cm
Tacloban	+1.4 to 4.7°C	-22 to -3%	+21 to 125 cm
Tangerang Seltan	+1.9 to 5.6°C	-17 to +4%	+21 to 122 cm
Tehran	+1.4 to 4.7°C	-4 to +16%	
Tempe	+1.3 to 4.3°C	-2 to +15%	
Tokyo	+2.1 to 5.7°C	2 to +19%	+20 to 129 cm
Toronto	+1.9 to 5.7°C	-1 to +18%	
Townsville	+2.1 to 6.2°C	-10 to +10%	+22 to 123 cm
Trondheim	+1.7 to 4.8°C	-4 to +13%	+25 to 141 cm
Tsukuba	+2.4 to 6.9°C	3 to +19%	
Tucson	+2.1 to 5.7°C	-44 to -7%	
Udon Thani	+2.4 to 6.3°C	-31 to +9%	
Venice	+1.3 to 4.4°C	-6 to +11%	+22 to 117 cm
Victoria	+2 to 5.6°C	0 to +13%	+21 to 118 cm
Vienna	+1.6 to 4.8°C	-9 to +21%	
Warsaw	+1.5 to 4.6°C	-4 to +24%	
Washington, D.C.	+1.7 to 4.9°C	5 to +19%	
Waterloo	+2.4 to 6.9°C	4 to +19%	
White Plains	+1.2 to 4.1°C	1 to +20%	
Windsor	+1.7 to 4.3°C	-25 to +15%	