

# Climate Change Knowledge Portal, World Bank

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## Contents

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Summary

Tables In IFs

Data Pulling Instructions

Data Notes

## Summary

The Climate Change Knowledge Portal (CCKP) provides global data on historical and future climate, vulnerabilities, and impacts. There are 55 tables, but only 1 preprocessor.

CCKP offers spatially aggregated climate data for land at the country or territory level, subnational first level, and watershed level, along with ocean data for Exclusive Economic Zones (EEZs) and ocean basins.

Currently, the only data available for ocean areas pertains to cyclones. This same data is also provided at the country or territory level, specifically regarding cyclone landfall. They plan to expand the ocean data coverage in the near future.

## Tables In IFs

Variable	Definition	UsedInPreprocessor	UsedInPreprocessorFileName	Name in Source
EnvAvgAnnTempChgNEWLong	Change in YoY average annual temperature	0		YoY change in average annual temperature (degrees C)
EnvAvgAnnTempNEWLong	Average annual temperatures from 1901 to 2015	0		Yearly average temperatures for years 1901-2015
EnvPrecipitationChgNEWLong	Change in YoY average annual precipitation	0		YoY percentage change in average annual precipitation
EnvPrecipitationNEWLong	Annual precipitation from 1901 to 2015	0		Yearly precipitation from 1901-2015
ForecastEnvPrecipitationChgFLATunw	Precipitation percent change relative to 1990, historical and forecast, 50th percentile of all model outputs, 2015-2024 same as RCP45 then kept flat from 2024 on	0		
ForecastEnvPrecipitationChgMedianRCP26	Precipitation percent change relative to 1990, historical and forecast, 50th percentile of all model outputs, RCP 2.6 scenario	0		
ForecastEnvPrecipitationChgMedianRCP45	Precipitation percent change relative to 1990, historical and forecast, 50th percentile of all model outputs, RCP 4.5 scenario	0		
ForecastEnvPrecipitationChgMedianRCP60	Precipitation percent change relative to 1990, historical and forecast, 50th percentile of all model outputs, RCP 6.0 scenario	0		
ForecastEnvPrecipitationChgMedianRCP60unw	Precipitation percent change relative to 1990, historical and forecast, 50th percentile of all model outputs, RCP 6.0 scenario 2015-2024 values same as RCP45	0		
ForecastEnvPrecipitationChgMedianRCP85	Precipitation percent change relative to 1990, historical and forecast, 50th percentile of all model outputs, RCP 8.5 scenario	0		
ForecastEnvPrecipitationChgP10RCP26	Precipitation percent change relative to 1990, historical and forecast, 10th percentile of all model outputs, RCP 2.6 scenario	0		
ForecastEnvPrecipitationChgP10RCP45	Precipitation percent change relative to 1990, historical and forecast, 10th percentile of all model outputs, RCP 4.5 scenario	0		
ForecastEnvPrecipitationChgP10RCP60	Precipitation percent change relative to 1990, historical and forecast, 10th percentile of all model outputs, RCP 6.0 scenario	0		
ForecastEnvPrecipitationChgP10RCP85	Precipitation percent change relative to 1990, historical and forecast, 10th percentile of all model outputs, RCP 8.5 scenario	0		
ForecastEnvPrecipitationChgP90RCP26	Precipitation percent change relative to 1990, historical and forecast, 90th percentile of all model outputs, RCP 2.6 scenario	0		
ForecastEnvPrecipitationChgP90RCP45	Precipitation percent change relative to 1990, historical and forecast, 90th percentile of all model outputs, RCP 4.5 scenario	0		
ForecastEnvPrecipitationChgP90RCP60	Precipitation percent change relative to 1990, historical and forecast, 90th percentile of all model outputs, RCP 6.0 scenario	0		
ForecastEnvPrecipitationChgP90RCP85	Precipitation percent change relative to 1990, historical and forecast, 90th percentile of all model outputs, RCP 8.5 scenario	0		
ForecastEnvPrecipitationMedianRCP26	Precipitation, historical and forecast, 50th percentile of all model outputs, RCP 2.6 scenario	0		
ForecastEnvPrecipitationMedianRCP45	Precipitation, historical and forecast, 50th percentile of all model outputs, RCP 4.5 scenario	0		
ForecastEnvPrecipitationMedianRCP60	Precipitation, historical and forecast, 50th percentile of all model outputs, RCP 6.0 scenario	0		
ForecastEnvPrecipitationMedianRCP85	Precipitation, historical and forecast, 50th percentile of all model outputs, RCP 8.5 scenario	0		
ForecastEnvPrecipitationP10RCP26	Precipitation, historical and forecast, 10th percentile of all model outputs, RCP 2.6 scenario	0		
ForecastEnvPrecipitationP10RCP45	Precipitation, historical and forecast, 10th percentile of all model outputs, RCP 4.5 scenario	0		
ForecastEnvPrecipitationP10RCP60	Precipitation, historical and forecast, 10th percentile of all model outputs, RCP 6.0 scenario	0		
ForecastEnvPrecipitationP10RCP85	Precipitation, historical and forecast, 10th percentile of all model outputs, RCP 8.5 scenario	0		
ForecastEnvPrecipitationP90RCP26	Precipitation, historical and forecast, 90th percentile of all model outputs, RCP 2.6 scenario	0		
ForecastEnvPrecipitationP90RCP45	Precipitation, historical and forecast, 90th percentile of all model outputs, RCP 4.5 scenario	0		
ForecastEnvPrecipitationP90RCP60	Precipitation, historical and forecast, 90th percentile of all model outputs, RCP 6.0 scenario	0		
ForecastEnvPrecipitationP90RCP85	Precipitation, historical and forecast, 90th percentile of all model outputs, RCP 8.5 scenario	0		
ForecastEnvTempChgFLAT	Mean temperature from 1996, historical and forecast, 50th percentile of all model outputs, kept flat at 2017 value	0		
ForecastEnvTempChgMedianRCP26	Change of mean temperature from 1990, historical and forecast, 50th percentile of all model outputs, RCP 2.6 scenario	0		
ForecastEnvTempChgMedianRCP45	Change of mean temperature from 1990, historical and forecast, 50th percentile of all model outputs, RCP 4.5 scenario	0		
ForecastEnvTempChgMedianRCP60	Change of mean temperature from 1990, historical and forecast, 50th percentile of all model outputs, RCP 6.0 scenario	0		
ForecastEnvTempChgMedianRCP85	Change of mean temperature from 1990, historical and forecast, 50th percentile of all model outputs, RCP 8.5 scenario	0		
ForecastEnvTempChgP10RCP26	Change of mean temperature from 1990, historical and forecast, 10th percentile of all model outputs, RCP 2.6 scenario	0		
ForecastEnvTempChgP10RCP45	Change of mean temperature from 1990, historical and forecast, 10th percentile of all model outputs, RCP 4.5 scenario	0		
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ForecastEnvTempChgP90RCP60	Change of mean temperature from 1990, historical and forecast, 90th percentile of all model outputs, RCP 6.0 scenario	0		
ForecastEnvTempChgP90RCP85	Change of mean temperature from 1990, historical and forecast, 90th percentile of all model outputs, RCP 8.5 scenario	0		
ForecastEnvTempMedianRCP26	Mean temperature from 1990, historical and forecast, 50th percentile of all model outputs, RCP 2.6 scenario	0		
ForecastEnvTempMedianRCP45	Mean temperature from 1990, historical and forecast, 50th percentile of all model outputs, RCP 4.5 scenario	1	ENVIRONMENT	
ForecastEnvTempMedianRCP60	Mean temperature from 1990, historical and forecast, 50th percentile of all model outputs, RCP 6.0 scenario	0		
ForecastEnvTempMedianRCP85	Mean temperature from 1990, historical and forecast, 50th percentile of all model outputs, RCP 8.5 scenario	0		
ForecastEnvTempP10RCP26	Mean temperature from 1990, historical and forecast, 10th percentile of all model outputs, RCP 2.6 scenario	0		
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ForecastEnvTempP90RCP60	Mean temperature from 1990, historical and forecast, 90th percentile of all model outputs, RCP 6.0 scenario	0		
ForecastEnvTempP90RCP85	Mean temperature from 1990, historical and forecast, 90th percentile of all model outputs, RCP 8.5 scenario	0		

# Data Pulling Instructions

1. Navigate to <https://climateknowledgeportal.worldbank.org/download-data>
2. Choose Global - [variable] in the drop down because the global selection will provide data for all country or territory units (including subnationals), watersheds, EEZs, or ocean basins, but allow only 1 aggregation, 1 type, 1 scenario, and 1 variable to be selected.

**Climate Change Knowledge Portal**  
For Development Practitioners and Policy Makers

Select Scope

Country

Subnationals

Watersheds

Exclusive Economic Zones

Ocean Basins

Global - Watersheds

Global - Countries and Subnationals

Global - Countries

Global - Exclusive Economic Zones

Global - Ocean Basins

Regional - Countries and Subnationals

East Asia & Pacific

Europe & Central Asia

Latin America & Caribbean

Middle East & North Africa

North America

South Asia

Sub-Saharan Africa

Global - Watersheds

3. Select the collection needed.

AREA OF FOCUS  
ALL WATERSHEDS

► COLLECTION

CODE

COLLECTION LABEL



cmip6-x0.25

CMIP6 0.25-degree



cmip6-x1.0

CMIP6 1.0-degree, Extreme Precipitation Events. (2019 Shapefiles)



cru-x0.5

CRU 0.5-degree



era5-x0.25

ERA5 0.25-degree



pop-x1

Population and Poverty

NEXT

4. Then select the Type

**AREA OF FOCUS**  
ALL WATERSHEDS

**COLLECTION**  
POPULATION AND POVERTY

▶ **TYPE**

	CODE	TYPE LABEL
<input type="radio"/>	climatology	climatology
<input type="radio"/>	timeseries	timeseries

**NEXT**

## 5. Select the Variable

**AREA OF FOCUS**  
ALL WATERSHEDS

**COLLECTION**  
POPULATION AND POVERTY

**TYPE**  
TIMESERIES

▶ **VARIABLE**

	CODE	VARIABLE LABEL
<input type="radio"/>	popcount	Population Count
<input type="radio"/>	popdensity	Population Density
<input type="radio"/>	pov190	Percentage of Population below \$1.90/day
<input type="radio"/>	pov320	Percentage of Population below \$3.20/day
<input type="radio"/>	pov550	Percentage of Population below \$5.50/day

**NEXT**

## 6. Select the Product

**AREA OF FOCUS**  
ALL WATERSHEDS

**COLLECTION**  
POPULATION AND POVERTY

**TYPE**  
TIMESERIES

**VARIABLE**  
POV550 - PERCENTAGE OF  
POPULATION BELOW \$5.50/DAY

▶ **PRODUCT**

Please select a maximum of 3 options

	CODE	PRODUCT LABEL
<input type="checkbox"/>	climatology	Climatology
<input type="checkbox"/>	timeseries	Time Series

**NEXT**

7. Select the Aggregation which should be annual

**AREA OF FOCUS**  
ALL WATERSHEDS

**COLLECTION**  
POPULATION AND POVERTY

**TYPE**  
TIMESERIES

**VARIABLE**  
POV550 - PERCENTAGE OF  
POPULATION BELOW \$5.50/DAY

**PRODUCT**  
TIME SERIES

▶ **AGGREGATION**

	CODE	AGGREGATION LABEL
<input checked="" type="radio"/>	annual	Annual

**NEXT**

8. Next is the Time Interval

<b>AREA OF FOCUS</b> ALL WATERSHEDS	<table border="1"> <thead> <tr> <th>CODE</th> <th>PERIOD LABEL</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="radio"/> 2010-2100</td> <td></td> </tr> </tbody> </table>	CODE	PERIOD LABEL	<input checked="" type="radio"/> 2010-2100	
CODE	PERIOD LABEL				
<input checked="" type="radio"/> 2010-2100					
<b>COLLECTION</b> POPULATION AND POVERTY					
<b>TYPE</b> TIMESERIES	<input type="button" value="NEXT"/>				
<b>VARIABLE</b> POV550 - PERCENTAGE OF POPULATION BELOW \$5.50/DAY					
<b>PRODUCT</b> TIME SERIES					
<b>AGGREGATION</b> ANNUAL					
<input type="button" value="▶ TIME INTERVAL"/>					

9. Then the next page is Percentile

<b>AREA OF FOCUS</b> ALL WATERSHEDS	<table border="1"> <thead> <tr> <th><input checked="" type="checkbox"/></th> <th>CODE</th> <th>PERCENTILE LABEL</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td>mean</td> <td>Mean</td> </tr> </tbody> </table>	<input checked="" type="checkbox"/>	CODE	PERCENTILE LABEL	<input checked="" type="checkbox"/>	mean	Mean
<input checked="" type="checkbox"/>	CODE	PERCENTILE LABEL					
<input checked="" type="checkbox"/>	mean	Mean					
<b>COLLECTION</b> POPULATION AND POVERTY							
<b>TYPE</b> TIMESERIES	<input type="button" value="NEXT"/>						
<b>VARIABLE</b> POV550 - PERCENTAGE OF POPULATION BELOW \$5.50/DAY							
<b>PRODUCT</b> TIME SERIES							
<b>AGGREGATION</b> ANNUAL							
<b>TIME INTERVAL</b> 2010-2100							
<input type="button" value="▶ PERCENTILE"/>							

10. Choose the Scenario

AREA OF FOCUS  
ALL WATERSHEDS

COLLECTION  
POPULATION AND POVERTY

TYPE  
TIMESERIES

VARIABLE  
POV550 - PERCENTAGE OF  
POPULATION BELOW \$5.50/DAY

PRODUCT  
TIME SERIES

AGGREGATION  
ANNUAL

TIME INTERVAL  
2010-2100

PERCENTILE  
MEAN

▶ SCENARIO

	CODE	SCENARIO LABEL
<input type="radio"/>	SSP1	SSP1
<input type="radio"/>	SSP2	SSP2
<input type="radio"/>	SSP3	SSP3
<input type="radio"/>	SSP4	SSP4
<input checked="" type="radio"/>	SSP5	SSP5
<input type="radio"/>	ssp119	SSP1-1.9
<input type="radio"/>	ssp126	SSP1-2.6
<input type="radio"/>	ssp245	SSP2-4.5
<input type="radio"/>	ssp370	SSP3-7.0
<input type="radio"/>	ssp585	SSP5-8.5

NEXT

11. Next is the Model

<b>AREA OF FOCUS</b> ALL WATERSHEDS	<input checked="" type="checkbox"/> <b>CODE</b>	<b>MODEL LABEL</b>
<b>COLLECTION</b> POPULATION AND POVERTY	<input checked="" type="checkbox"/> gini	
<b>TYPE</b> TIMESERIES	<b>NEXT</b>	
<b>VARIABLE</b> POV550 - PERCENTAGE OF POPULATION BELOW \$5.50/DAY		
<b>PRODUCT</b> TIME SERIES		
<b>AGGREGATION</b> ANNUAL		
<b>TIME INTERVAL</b> 2010-2100		
<b>PERCENTILE</b> MEAN		
<b>SCENARIO</b> SSP5		
<b>MODEL</b>		

12. Next is the Model Calculation



<b>AREA OF FOCUS</b> ALL WATERSHEDS	<input checked="" type="checkbox"/> <b>CODE</b>	<b>MODEL_CALCULATION LABEL</b>
<b>COLLECTION</b> POPULATION AND POVERTY	<input checked="" type="checkbox"/> poverty	poverty
<b>TYPE</b> TIMESERIES	<input type="button" value="NEXT"/>	
<b>VARIABLE</b> POV550 - PERCENTAGE OF POPULATION BELOW \$5.50/DAY		
<b>PRODUCT</b> TIME SERIES		
<b>AGGREGATION</b> ANNUAL		
<b>TIME INTERVAL</b> 2010-2100		
<b>PERCENTILE</b> MEAN		
<b>SCENARIO</b> SSP5		

13. Once you select all the variables you need, you can either use an API or download an Excel sheet.

<b>API URL</b> The API call may be very large and may take a long time to complete. <div> <a href="https://cckpapi.worldbank.org/cckp/v1/pop-x1_timeseries_pov550_timeseries_annual_2010-2100_mean_SSP5_gini_poverty_mean/all_watersheds?_format=json">https://cckpapi.worldbank.org/cckp/v1/pop-x1_timeseries_pov550_timeseries_annual_2010-2100_mean_SSP5_gini_poverty_mean/all_watersheds?_format=json</a> </div> <div> <input type="button" value="COPY"/> <input type="button" value="OPEN URL"/> <input type="button" value="DOWNLOAD EXCEL"/> </div>
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## Data Notes

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