Climate Change Knowledge Portal, World Bank

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Contents

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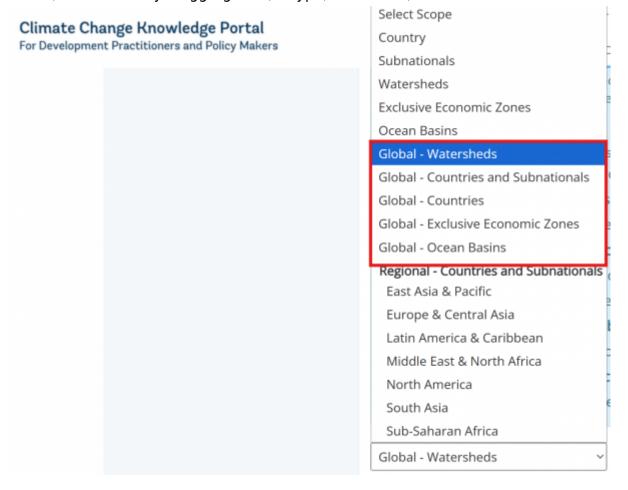
Currently, the only data available for ocean areas pertains to cyclones. This same data is also provided at the country or territory level, specifically regarding cyclone landfall. They plan to expand the ocean data coverage in the near future.
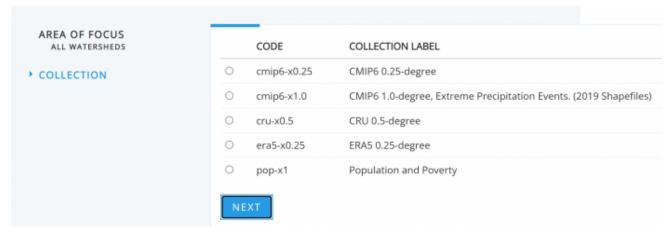
Tables In IFs

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		
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ForecastEnvTempChgP90RCP45	Change of mean temperature from 1990, historical and forecast, 90th percentile of all model outputs, RCP 4.5 scenario	0		
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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ForecastEnvTempP10RCP85	Mean temperature from 1990, historical and forecast, 10th percentile of all model outputs, RCP 8.5 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.

3. Select the collection needed.

4. Then select the Type

5. Select the Variable

6. Select the Product

7. Select the Aggregation which should be annual

8. Next is the Time Interval

9. Then the next page is 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
○	SSP1	SSP1
○	SSP2	SSP2
○	SSP3	SSP3
○	SSP4	SSP4
◉	SSP5	SSP5
○	ssp119	SSP1-1.9
○	ssp126	SSP1-2.6
○	ssp245	SSP2-4.5
○	ssp370	SSP3-7.0
○	ssp585	SSP5-8.5

NEXT

11. Next is the Model

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
SSP5

▶ MODEL

☑	CODE	MODEL LABEL
☑	gini	

NEXT

12. Next is the Model Calculation

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
SSP5

	CODE	MODEL_CALCULATION LABEL
☑		
☑	poverty	poverty

NEXT

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

API URL

The API call may be very large and may take a long time to complete.

https://cckpapi.worldbank.org/cckp/v1/pop-x1_timeseries_pov550_timeseries_annual_2010-2100_mean_SSP5 _gini_poverty_mean/all_watersheds?_format=json

⬆ COPY   ⚲ OPEN URL   📄 DOWNLOAD EXCEL

Data Notes