

Capacity Building

Implementing Island-Level Disaster Management Plans and Vulnerability Assessment

**January 28,
2024**

Venue: MNU Campus,
Gan, Laamu Atoll



Hands on Training on ESCAP Risk and Resilience Portal

Prangya Paramita Gupta
ESCAP

How to view the Maldives page

- Click on the “Data Explorer”
- Click on “Geo” > Type “Maldives” in the search bar > Maldives will appear under “South and South-West Asia.”
- Click on the 3 dots by the side of Maldives > Click on the Decision Support System.
- Click on the “Guided Tour” > Click on the circles next to the SSP2 2021-2040 > see the Legend
- Click on the circles next to the SSP3 2041-2060 > see the change

Task to do:

- Change opacity of the layer
- Change scenario
- Interpret what you see

Guided tour: How to view exposure of different sectors

- Click on the “Population Exposure” > zoom in to one island > see the pixel colours and match with the legend
- **The colours represent the number of population in one pixel**
- The chart show percentage of population exposed to different categories of hazards
- Click on “Absolute” in Unit menu
- Now the chart show total number of population exposed to different categories of hazards

Task to do:

- Zoom and see your island’s population – total and female
- Change scenario and interpret what you see
- Find out the top 10/ top 5 atolls
- Find out the difference by changing units
- Find out the exposure of agriculture

Guided tour: Comparing maps through guided tour

- Click on the “Compare” button > two maps appears
- Click on left map > select SSP2 2021-2040 scenario > click on right map > select a SSP3 2021-2040 > see the difference > see the legend

Task to do:

- Compare multi-hazard under different scenario
- Compare population exposure under different climate scenario



Customized view: Customize hazard hotspot view

- Click the “Customize” > Select hazard > Click the Expand Tool > Select scenario > Click on Hide Tool
- Click on the “Compare” button > two maps appears
- Select left map > select flood hazard > select SSP3 2021-2040 scenario
- Select right map > select drought hazard > select SSP3 2021-2040 scenario > compare

Task to do:

- Compare same hazard different scenario
- Compare different hazard same scenario

Customized view: Adding map layers in the customized view

- Click on Hazard > Select sea level rise >
- Select Map layer > select basemap > select elevation > select island boundary
- Click on Landuse > select agricultural area > change the opacity of the layers for better view

Task to do:

- Add different map layers to explore
- Zoom in to different islands and explore the differences



Customized view: Exploring sectoral data through charts

- Select Hazard > click on Surface wind > select chart data > click on Infrastructure > click on energy infrastructure
- Click on Chart data > select population exposure > see the chart > change the unit > see the difference
- Click on Top Five in the Chart > Click on Low, Medium and high one by one > see the difference
- Click on chart on the panel in the map window > Click on All /Top ten / Top Five > see the difference

Task to do:

- See the charts of energy exposure to sea level rise of under mid-term SSP3 scenario

Customized view: Comparing sectoral data through charts

- Click on Chart on the panel in the map window > Click on compare
- Select left map > select flood hazard > select expand tool > select SSP2 2041-2060 > hide tool
- Select chart data > select female population
- Select right map > select flood hazard > select expand tool > select SSP3 2041-2060 > hide tool
- Select chart data > select female population

Task to do:

- Compare charts for energy infrastructure in absolute value for sea level rise for SSP3 (2021-2040) scenario and SSP3 (2041-2060) scenario .

Customized view: Exploring sectoral data through tables

- Select Hazard > click on drought > Click on Expand Tool > Select SSP2 2021-2040
- Select chart data > click on landuse > click on agricultural area
- Click on “Table” at the bottom of the map window > explore the table
- Click on Compare > click on right map > Click on Expand Tool > Select SSP3 2021-2040 > compare the tables

Task to do:

- View table on percentage of energy capacity exposed to flooding of different severity under SSP2 mid-term scenario

How to support development decisions

To develop urban areas resistant to sea level rise of 1 m

- Select the hazard > select Sea Level Rise > click on expand tool > select SSP3 2041-2060 scenario.
- Find which atolls will face highest risk of Sea level Rise
- Click on Map Layer > select elevation > select Island Boundary > Zoom into island of your interest.
- Click on landuse > select urban area > reduce the opacity of urban area from the legend
- Find out which areas might get affected due to 1 m sea level rise



How to support development decisions

Task to do:

- Find out suitable area for expansion of agricultural areas/ urban development in any island of your choice under 1 m sea level rise scenario.
- Find out energy infrastructure under the high risk of flood and inundation under long-term SSP3 near-term.