Shelter Cluster Afghanistan
ShelterCluster.org
Coordinating Humanitarian Shelter
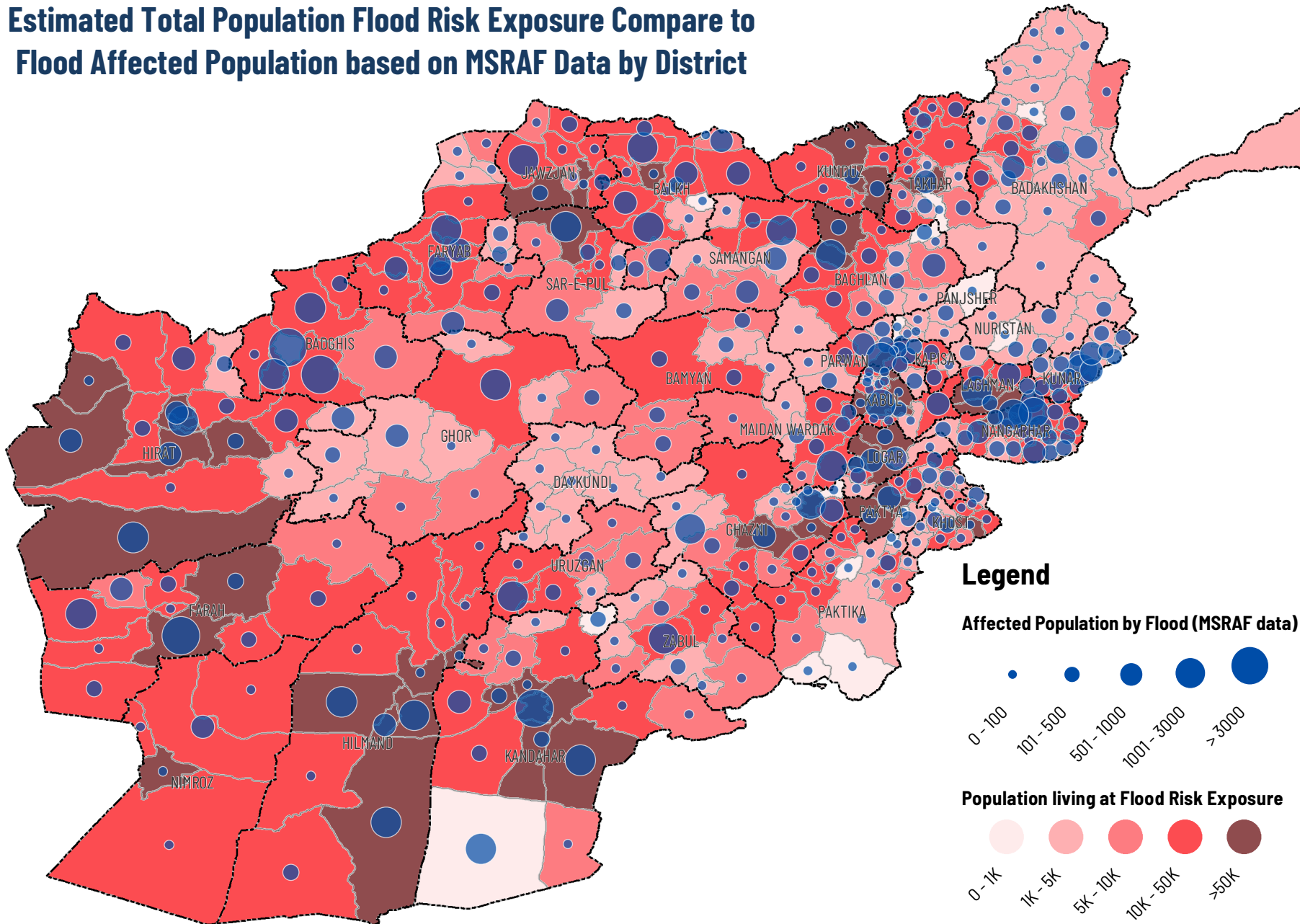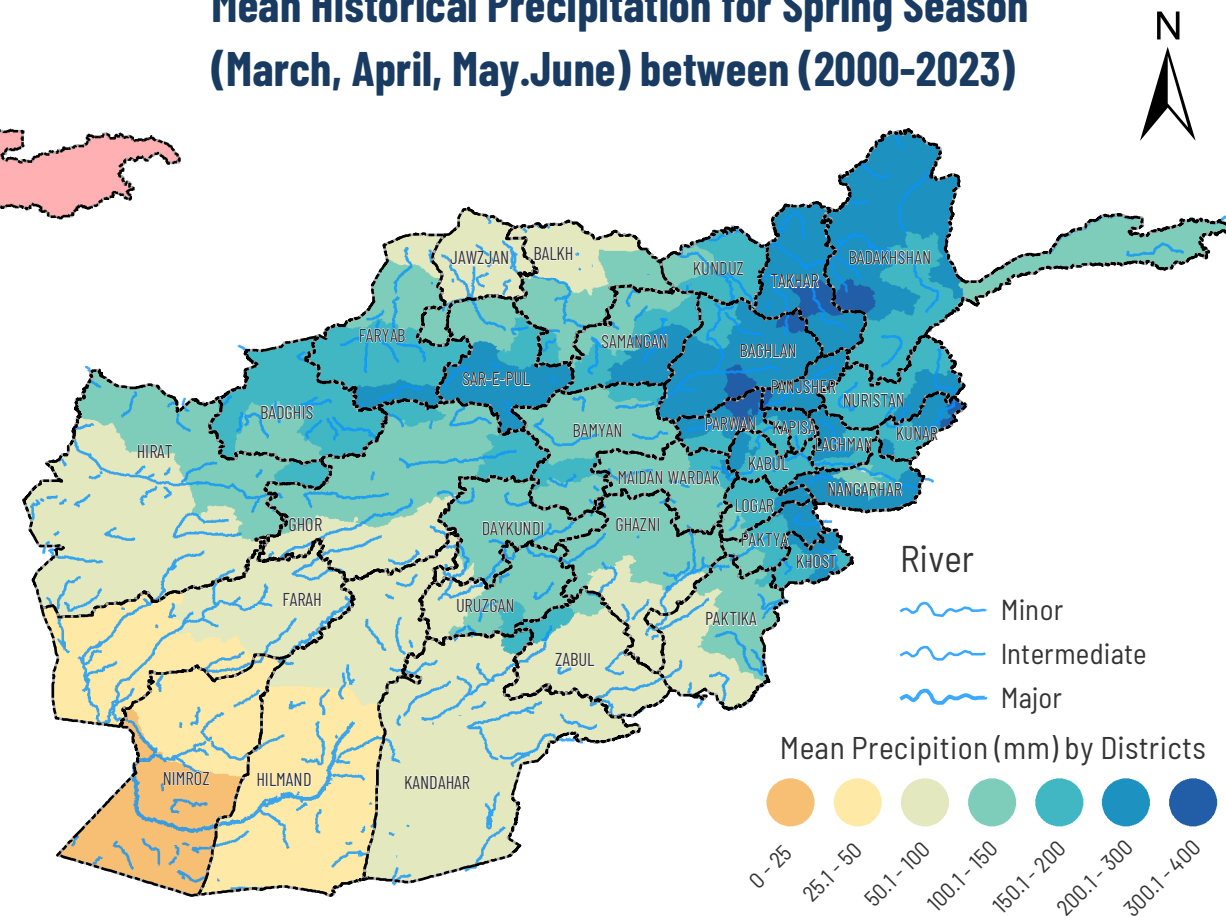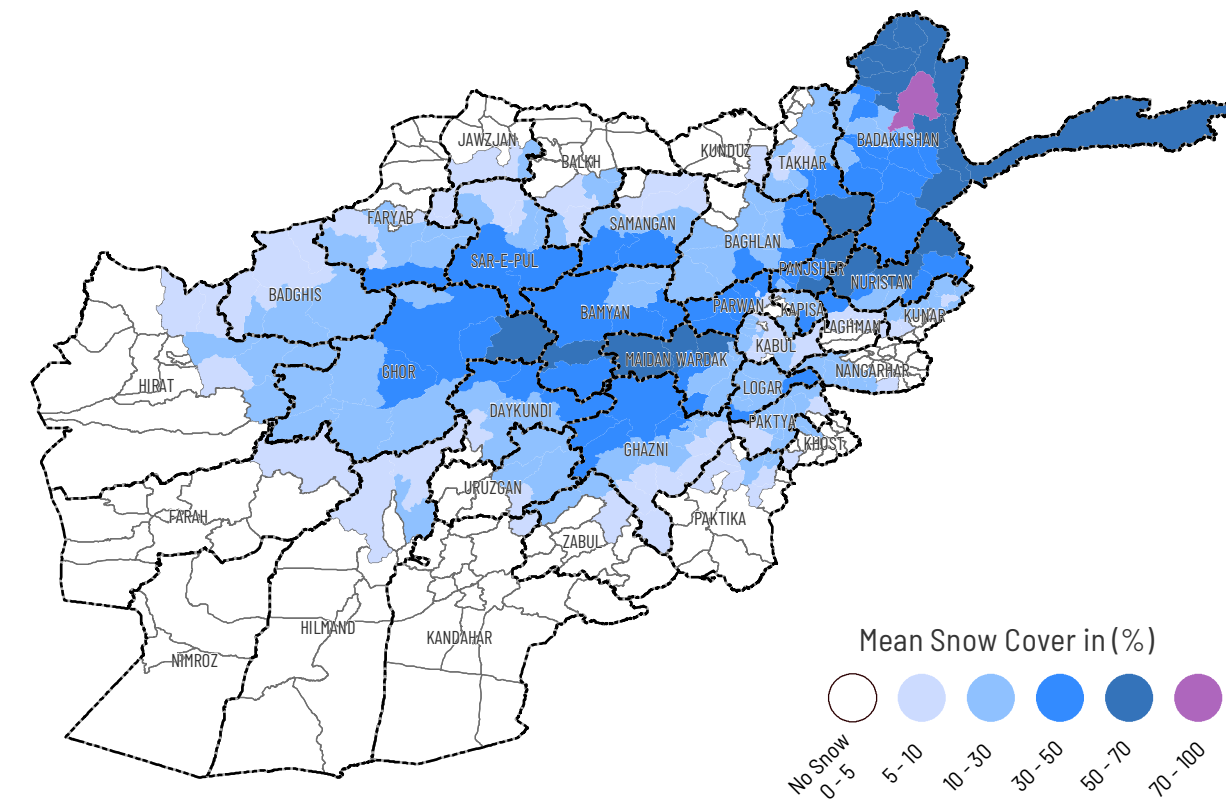
Flood Risk Exposure Map

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Estimated Total Population Flood Risk Exposure Compare to Flood Affected Population based on MSRAF Data by District

Legend

Affected Population by Flood (MSRAF data)

0 - 100 | 101 - 500 | 501 - 1000 | 1001 - 3000 | > 3000

Population living at Flood Risk Exposure

0 - 1K | 1K - 5K | 5K - 10K | 10K - 50K | >50K

Mean Historical Precipitation for Spring Season (March, April, May.June) between (2000-2023)

River
- Minor
- Intermediate
- Major

Mean Precipitation (mm) by Districts

0 - 25 | 25.1 - 50 | 50.1 - 100 | 100.1 - 150 | 150.1 - 200 | 200.1 - 300 | 300.1 - 400

Mean Historical Snow Cover Percentage for Winter season (December, January, February, March) between (2015 - 2024)

Mean Snow Cover in (%)

No Snow | 0 - 5 | 5 - 10 | 10 - 30 | 30 - 50 | 50 - 70 | 70 - 100

Digital Elevation Model (m)

DEM (m)

<1,000 | 1,000 - 2,000 | 2,000 - 3,000 | 3,000 - 4,000 | >4,000

Description: This map indicates the estimated total population living in flood risk exposure areas by districts based on potential flood depth at a 100-year inundation event sourced by NATO C3 flood model, and bubbles show the number of individuals affected by floods during the period of (2012-2023) based on MSRAF data.

Note: The figures don't mean annually this much of the population will be affected by floods, for additional information see the documentation of the AFG-FHM. The second map shows the mean historical accumulated precipitation for the Spring season (March, April, May.June) by districts between (2000-2023), data sourced from Climate Hazards Group InfraRed Precipitation with Station data (CHIRPS) - Daily Precipitation dataset with 4800 m (1/20-deg) computation resolution (scale). The third map shows mean historical accumulated snow cover for the winter season (December, January, February, March) by districts between (2015-2024) in percentage that indicates the number of days an area has experienced. For example, 70-100% (purple color) would be equivalent to 85-121 days in single season and light blue color shows fewer snow cover days respectively. The dataset is provided by NASA NSIDC DAAC at 500 meters resolution. This information has been proceed through Google Earth Engine (GEE) plateform. The fourth map shows DEM (Digital Elevation Model) in meter.

Disclaimer: This map is made possible by the generous support of the American people through the United States Agency for International Development (USAID). The contents are the responsibility of iMMAP and do not necessarily reflect the views of USAID or the United States Government. The data is the responsibility of the data providers; it does not give an endorsement or acceptance by iMMAP who is only responsible for its visualization.

Datum/projection: WGS84/Geographic, **Data Sources:** AGCHO, AFG-FHM, CHIRPS, NSIDC.
Date Created: March 28, 2024, **Feedback:** rep-afghanistan@immap.org