

Datum/projection: WGS84/Geographic

Data Sources: NASA LP DAAC

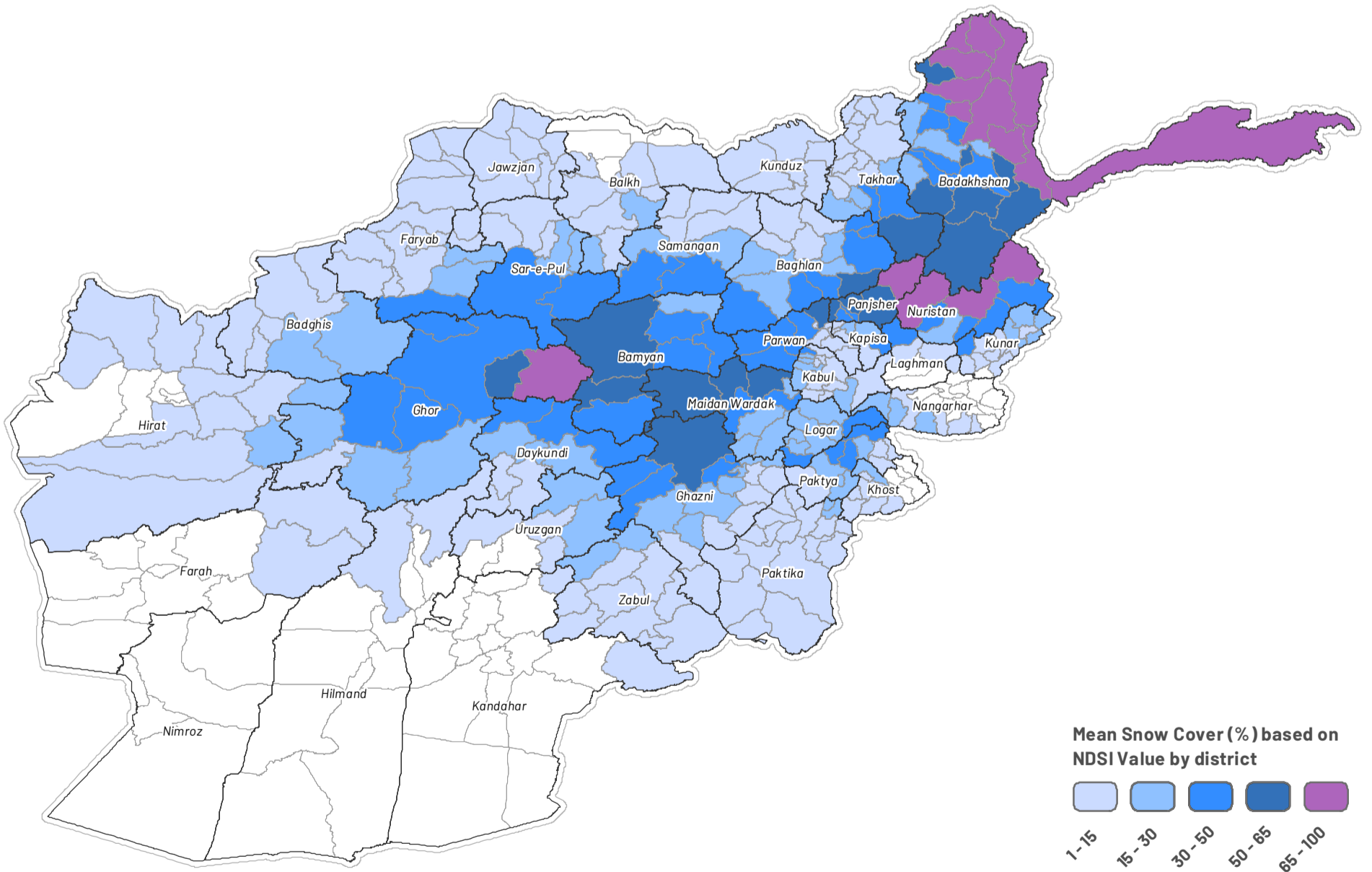
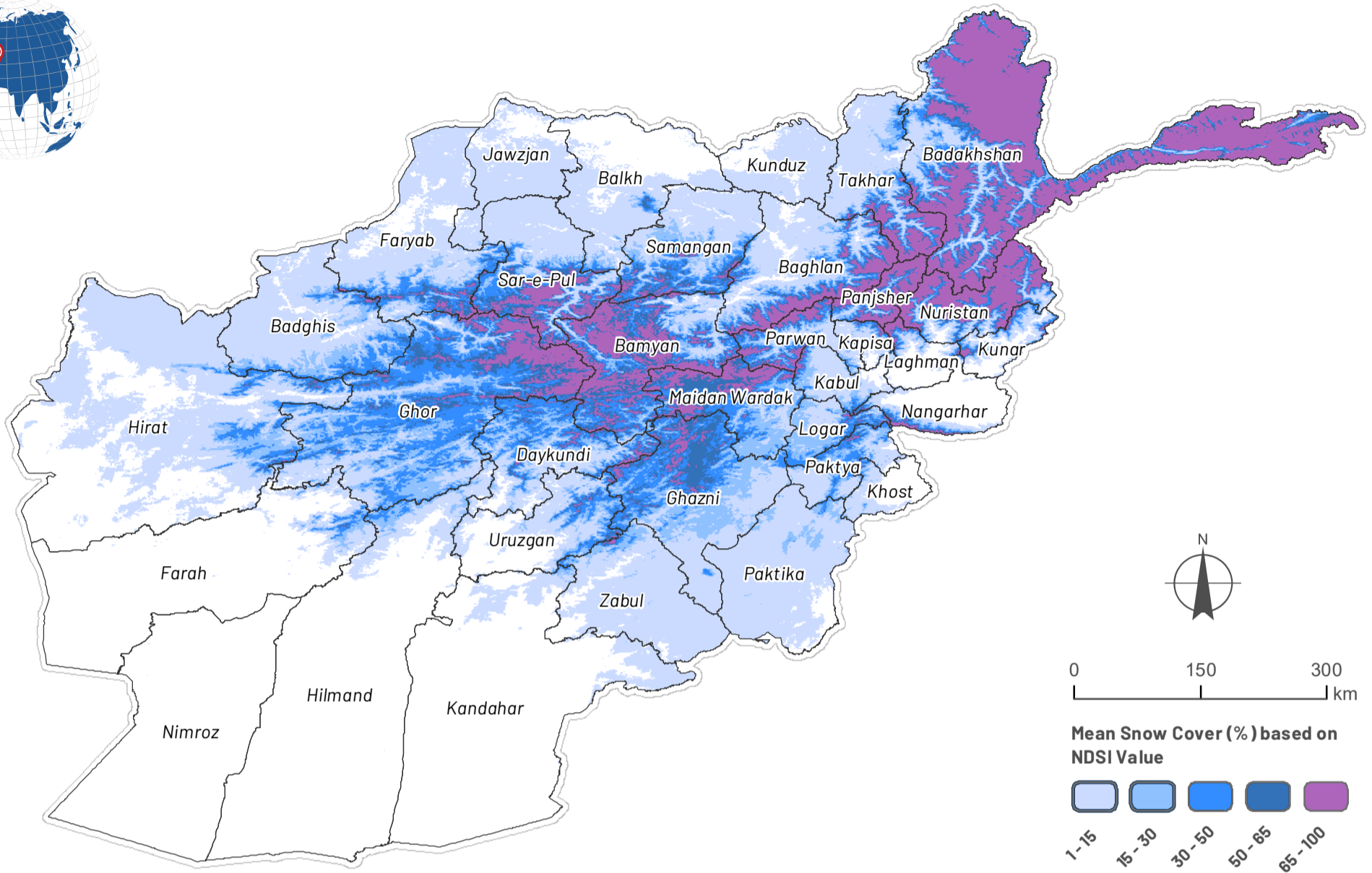
Creation Date: July 26, 2022

Description: This map shows the mean temperature during the winter season (Dec, Jan, Feb, and Mar) in (°C) for the 10 years (2012 - 2022) in Afghanistan.

The MOD11A2 V6.1 product provides an average 8-day land surface temperature (LST) in a 1200 x 1200 kilometer grid. Each pixel value in MOD11A2 is a simple average of all the corresponding MOD11A1 LST pixels collected within that 8 day period. The 8 day compositing period was chosen because twice that period is the exact ground track repeat period of the Terra and Aqua platforms. In this product, along with both the day- and night-time surface temperature bands and their quality indicator (QC) layers, are also MODIS bands 31 and 32 and eight observation layers. The data is generated using google earth engine (GEE) API.

Disclaimer: This map is made possible by the generous support of the American people through the United States Agency for International Development (USAID) – Bureau for Humanitarian Assistance (BHA). The boundaries, denominations, and designations displayed in this product are defined by the data shared with iMAP. At iMAP we visualize data, we do not create it, so these elements and freshness of the data are the responsibility of the data providers and no endorsement nor acceptance of it by iMAP, USAID-BHA, or the United States Government can be assumed.

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Datum/projection:

WGS84/Geographic

Data Sources:

NASA NSIDC DAAC

Creation Date:

July 26, 2022

Description: This map shows the mean snow cover percentage based on NDSI value during the winter season (Dec, Jan, Feb, and Mar) for the 5 years (2017 - 2022) in Afghanistan.

The MOD10A1 V6 Snow Cover Daily Global 500m product contains snow cover data. Snow cover data are based on a snow mapping algorithm that employs a Normalized Difference Snow Index (NDSI).

The Normalized Difference Snow Index (NDSI) snow cover is an index that is related to the presence of snow in a pixel. Snow typically has very high visible (VIS) reflectance and very low reflectance in the shortwave infrared (SWIR), a characteristic used to detect snow by distinguishing between snow and most cloud types. Snow cover is detected using the NDSI ratio of the difference in VIS and SWIR reflectance; $NDSI = ((band\ 4 - band\ 6) / (band\ 4 + band\ 6))$. A pixel with $NDSI > 0.0$ is considered to have some snow present. A pixel with $NDSI \leq 0.0$ is a snow free land surface and the data is scaled between 1 - 100.

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