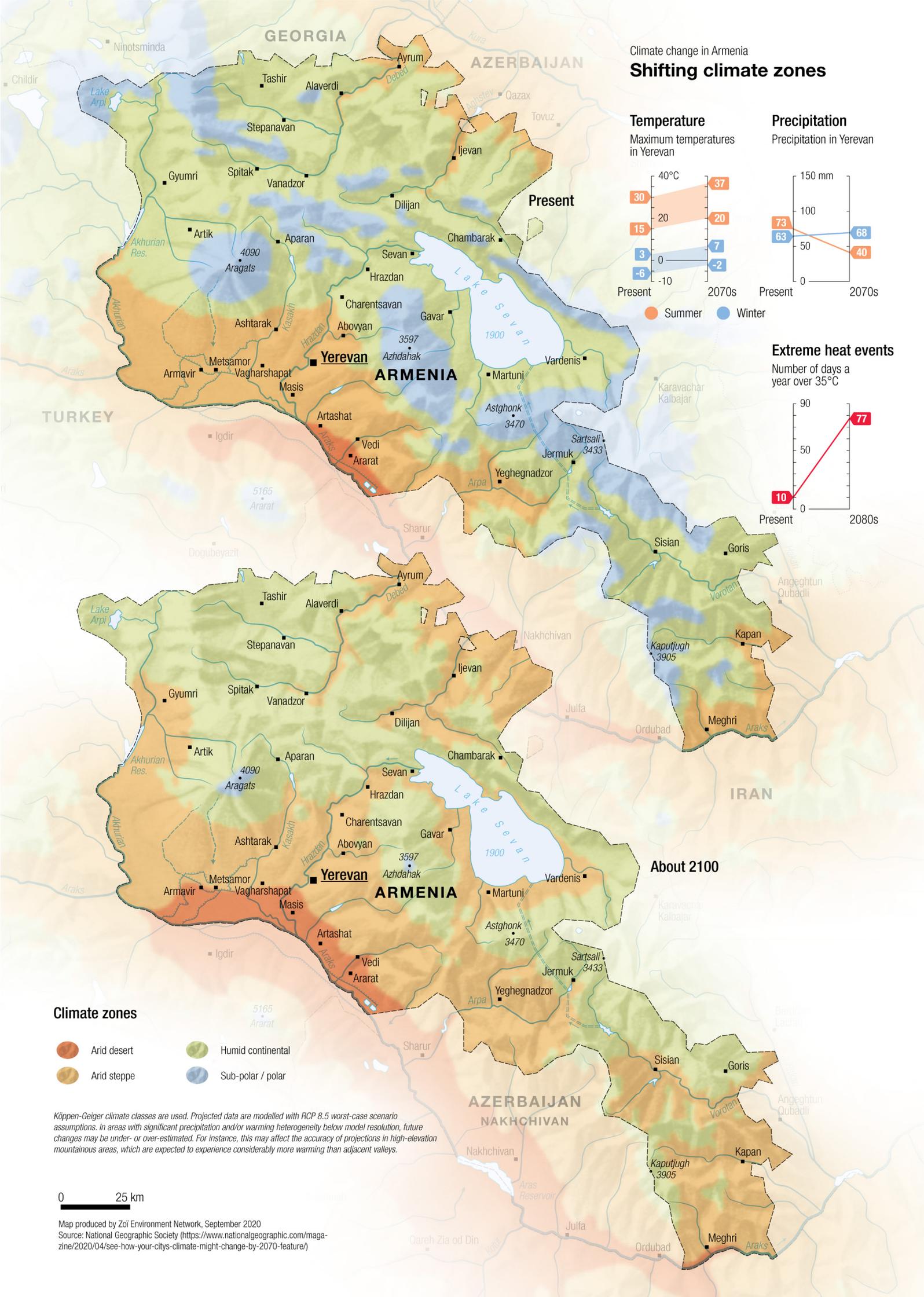


Map produced by Zoi Environment Network, September 2020  
 Source: Fourth National Communication on Climate Change, UNDP Armenia, 2020;  
 A Needs Assessment for Introducing Agricultural Insurance in Armenia in the Context of Climate Risk Mitigation, UNDP Armenia 2014; ESA Climate Change Initiative, Land Cover led by UCLouvain, 2018; Statistical Committee of the Republic of Armenia (www.armstatbank.am)

# ARMENIAN agriculture and climate change

The maps in this series are intended to help agricultural and climate-change communities in Armenia to discuss future climate risks to the country's agriculture and the ways to address them.

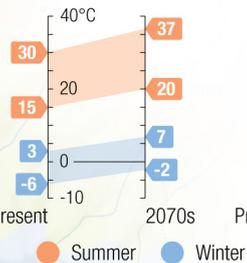




Climate change in Armenia  
**Shifting climate zones**

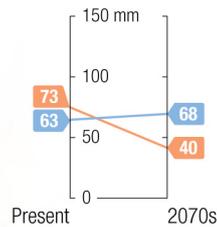
**Temperature**

Maximum temperatures in Yerevan



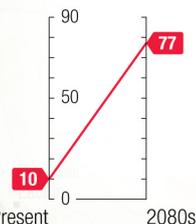
**Precipitation**

Precipitation in Yerevan



**Extreme heat events**

Number of days a year over 35°C



**Climate zones**

- Arid desert
- Arid steppe
- Humid continental
- Sub-polar / polar

*Köppen-Geiger climate classes are used. Projected data are modelled with RCP 8.5 worst-case scenario assumptions. In areas with significant precipitation and/or warming heterogeneity below model resolution, future changes may be under- or over-estimated. For instance, this may affect the accuracy of projections in high-elevation mountainous areas, which are expected to experience considerably more warming than adjacent valleys.*

0 25 km

# Hot and dry days vs projected crop yield

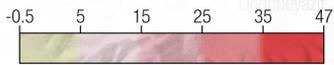
## Projected changes in yield levels until 2050 by marzes

	More (0 to 10%)	Less (0 to -10%)	Much less (-10 to -20%)
Wheat			
Potato			
Grape			

--- Provincial boundaries (marzes)

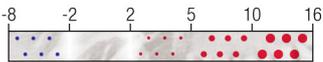
### Temperature

Change of days with temperature above 25°C between 1935 and 2016



### Precipitation

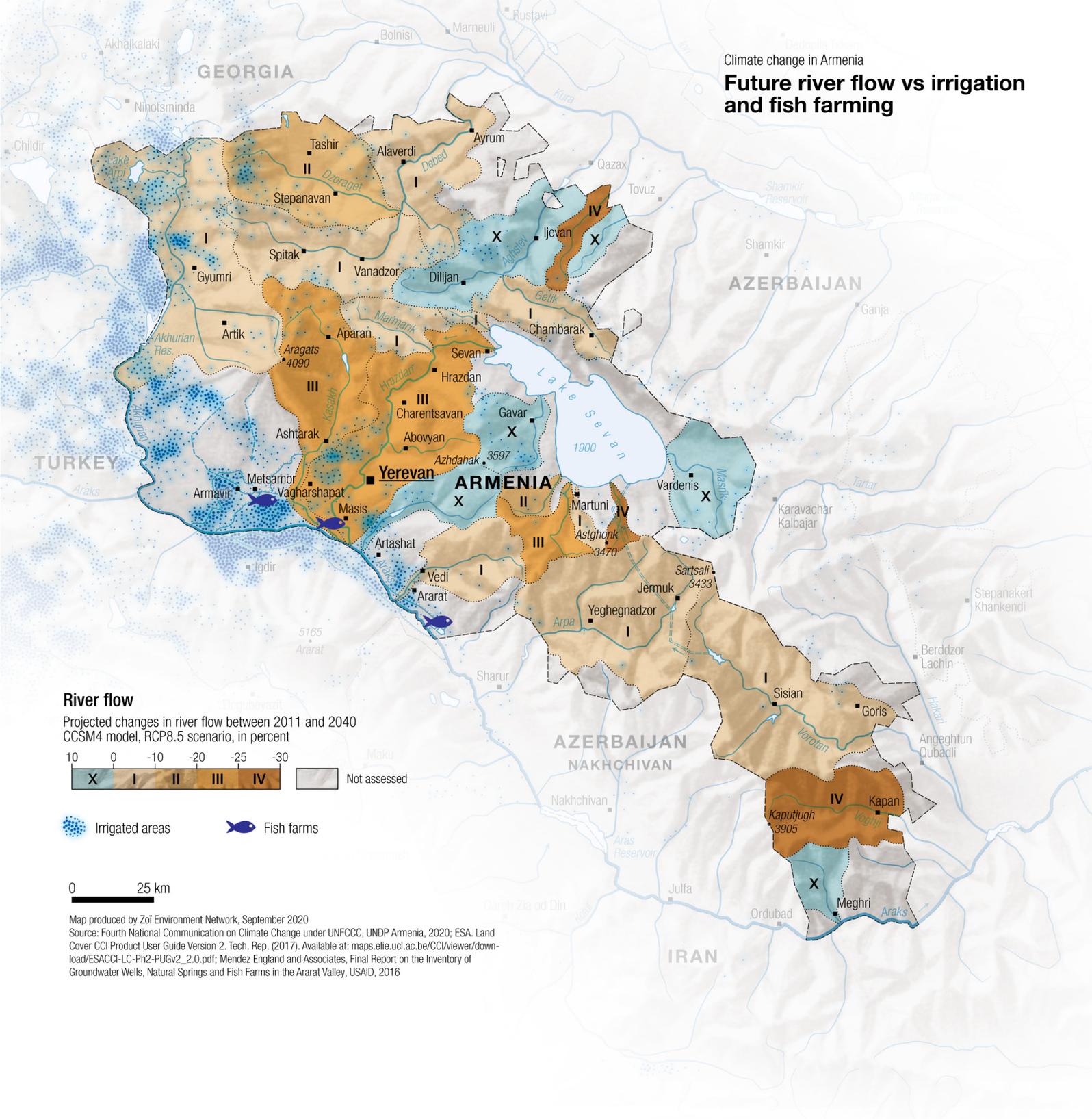
Change of consecutive days with less than 1 mm precipitation between 1935 and 2016



0 25 km

Map produced by Zoi Environment Network, September 2020  
 Source: Fourth National Communication on Climate Change under UNFCCC, UNDP Armenia, 2020

Climate change in Armenia  
**Future river flow vs irrigation and fish farming**



The maps were prepared by Zoï Environment Network as part of a year-long journey to help Armenia develop a National Framework for Climate Services, funded by the World Bank and supported by the Hydrometeorology and Monitoring Center under the Ministry of the Environment of the Republic of Armenia.