

# Iran Temperatures in 2019 and 2020

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## Short Report

**Keywords:** Spatial and temporal Analysis, Temperature, Satellite, Iran

**Posted Date:** May 17th, 2021

**DOI:** <https://doi.org/10.21203/rs.3.rs-515554/v2>

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# Iran Temperatures in 2019 and 2020

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## Abstract

In this study, the temperature of Iran based on satellite observations during 2019 and 2020 has been investigated. In 2019, the western, southwestern and southeastern regions are warmer than other regions. The maximum average annual temperature of Iran will reach 30 degrees Celsius and the minimum average annual temperature will reach 4 degrees Celsius in 2019. The central regions of Iran have an average temperature of 18 degrees Celsius in 2020. The western, southwestern regions are about 1 degree Celsius warmer in 2020 than in 2019. The eastern regions of Iran in 2020 are about -1.5 degrees Celsius colder than in 2019.

**Keywords:** Spatial and temporal Analysis, Temperature, Satellite, Iran

## Introduction

Temperature record-breaking is becoming commonplace in Iran and around the world. In recent years, different parts of the country have experienced new and warmer climates. July of 2020 was the hottest spot in the country at Shush station in Khuzestan province with 53.1 degrees Celsius, while the highest long-term temperature in the country during July of the previous year was 52.4 degrees Celsius was recorded. Temperatures have broken records in many parts of Iran in recent months and years. It is low and the summers are dominated by the air system, which leads to an increase in temperature. That's why record-breaking temperatures are a natural occurrence, but records have shifted rapidly in recent years, an issue to which we can attribute climate change and global warming [1-2]. Because of global warming in general, this phenomenon leads to long-term changes. Geodetic studies and tools with deep learning methods can help in this field [3-7].

In this study, the temperature of Iran based on satellite observations during 2019 and 2020 has been investigated.

## Results

Figure 1 shows the average temperature of Iran based on satellite observations in 2019. The maximum average annual temperature of Iran will reach 30 degrees Celsius and the minimum average annual temperature will reach 4 degrees Celsius in 2019. In 2019, the western, southwestern and southeastern regions are warmer than other regions.

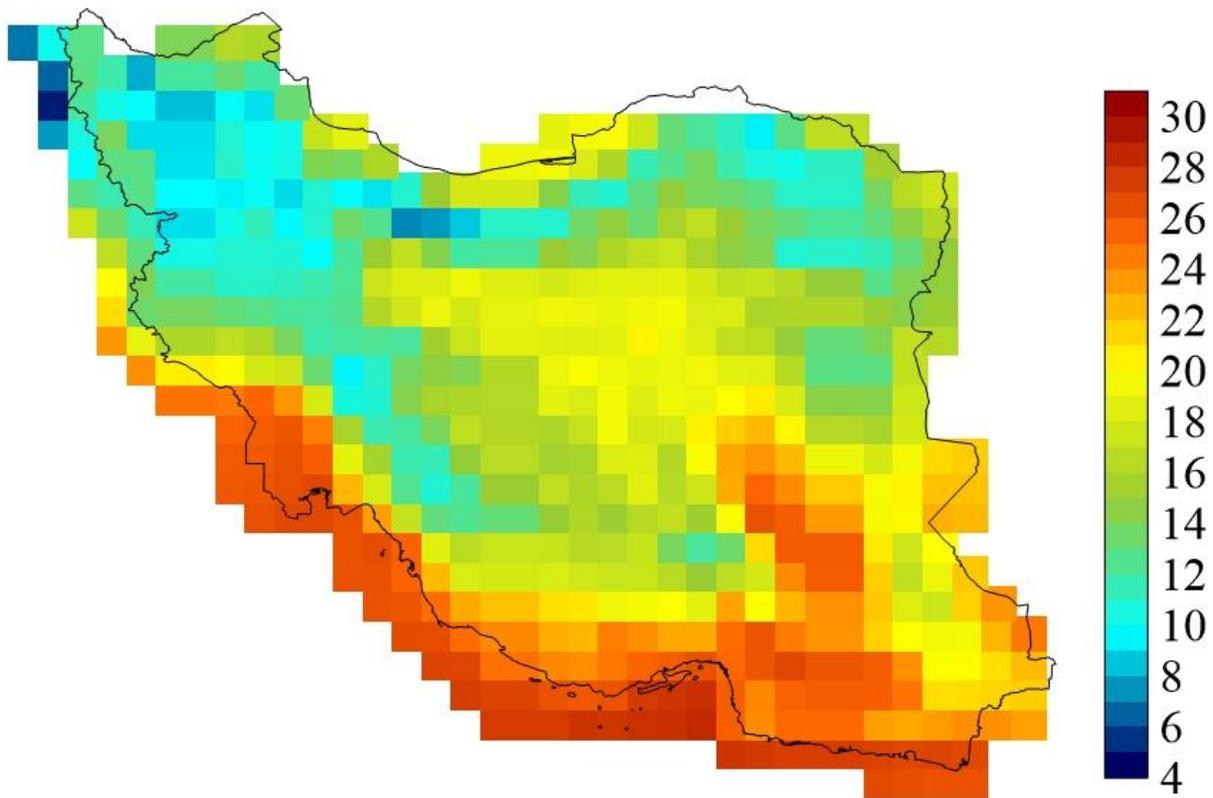


Figure 1 Average temperature of Iran based on satellite observations in 2019

Figure 2 shows the average temperature of Iran based on satellite observations in 2020. In 2020, the western, southwestern and southeastern regions will be warmer than other regions. The central regions of Iran have an average temperature of 18 degrees Celsius in 2020.

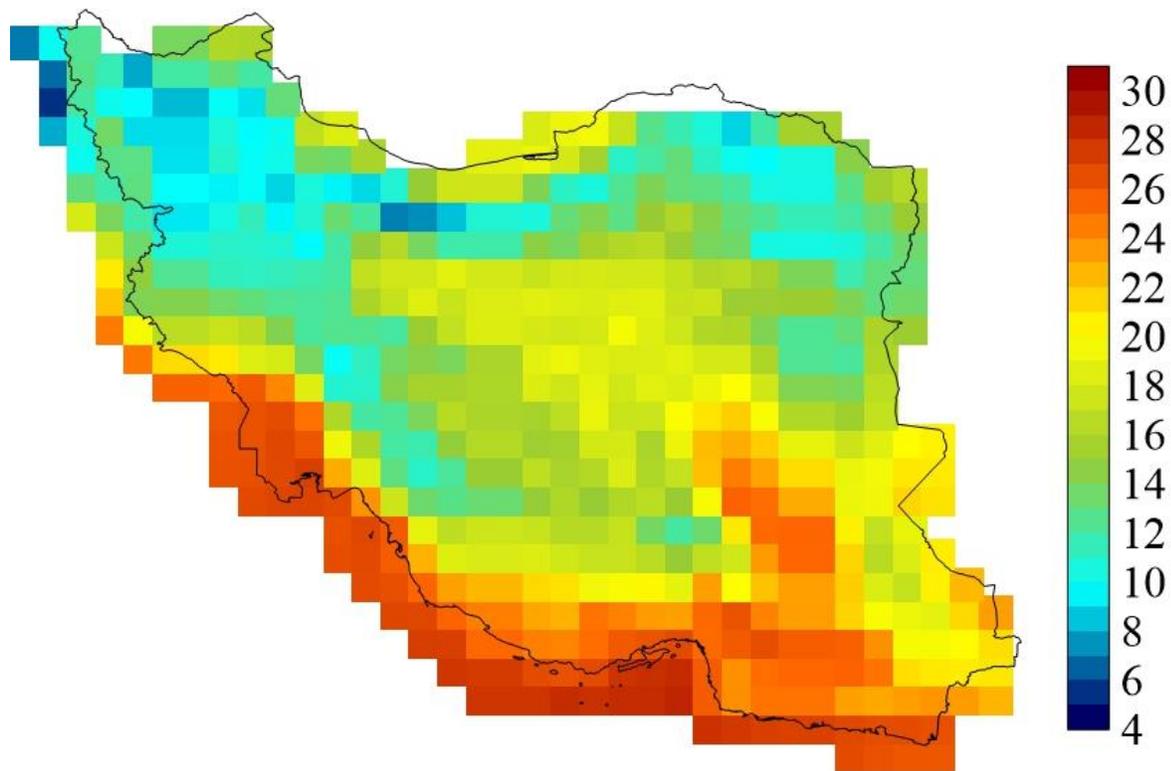


Figure 2 Average temperature of Iran based on satellite observations in 2020

Figure 3 shows the average temperature difference between Iran based on satellite observations between 2019 and 2020. The western, southwestern regions are about 1 degree Celsius warmer in 2020 than in 2019. The eastern regions of Iran in 2020 are about -1.5 degrees Celsius colder than in 2019.

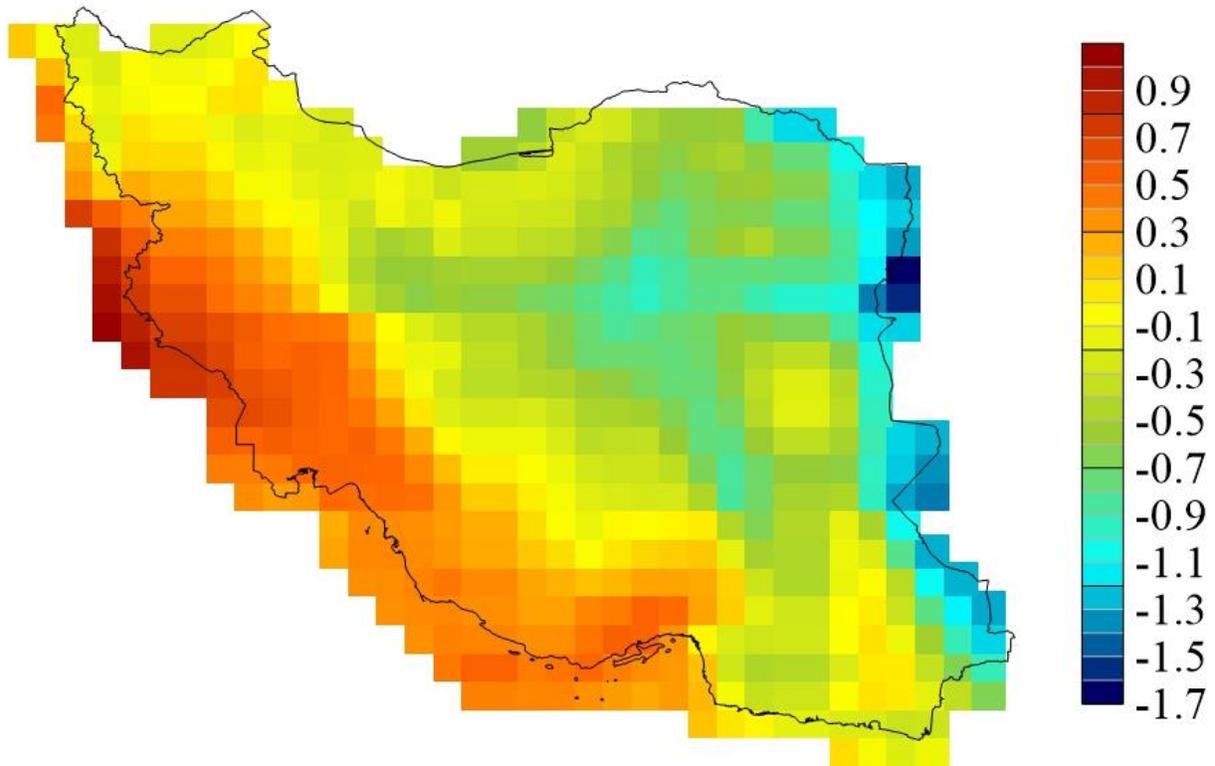


Figure 3 Iranian average temperature difference based on satellite observations between 2019 and 2020

### Conclusion

In this study, the temperature of Iran based on satellite observations during 2019 and 2020 has been investigated. In 2019, the western, southwestern and southeastern regions are warmer than other regions. The maximum average annual temperature of Iran will reach 30 degrees Celsius and the minimum average annual temperature will reach 4 degrees Celsius in 2019. The central regions of Iran have an average temperature of 18 degrees Celsius in 2020. The western, southwestern regions are about 1 degree Celsius warmer in 2020 than in 2019.

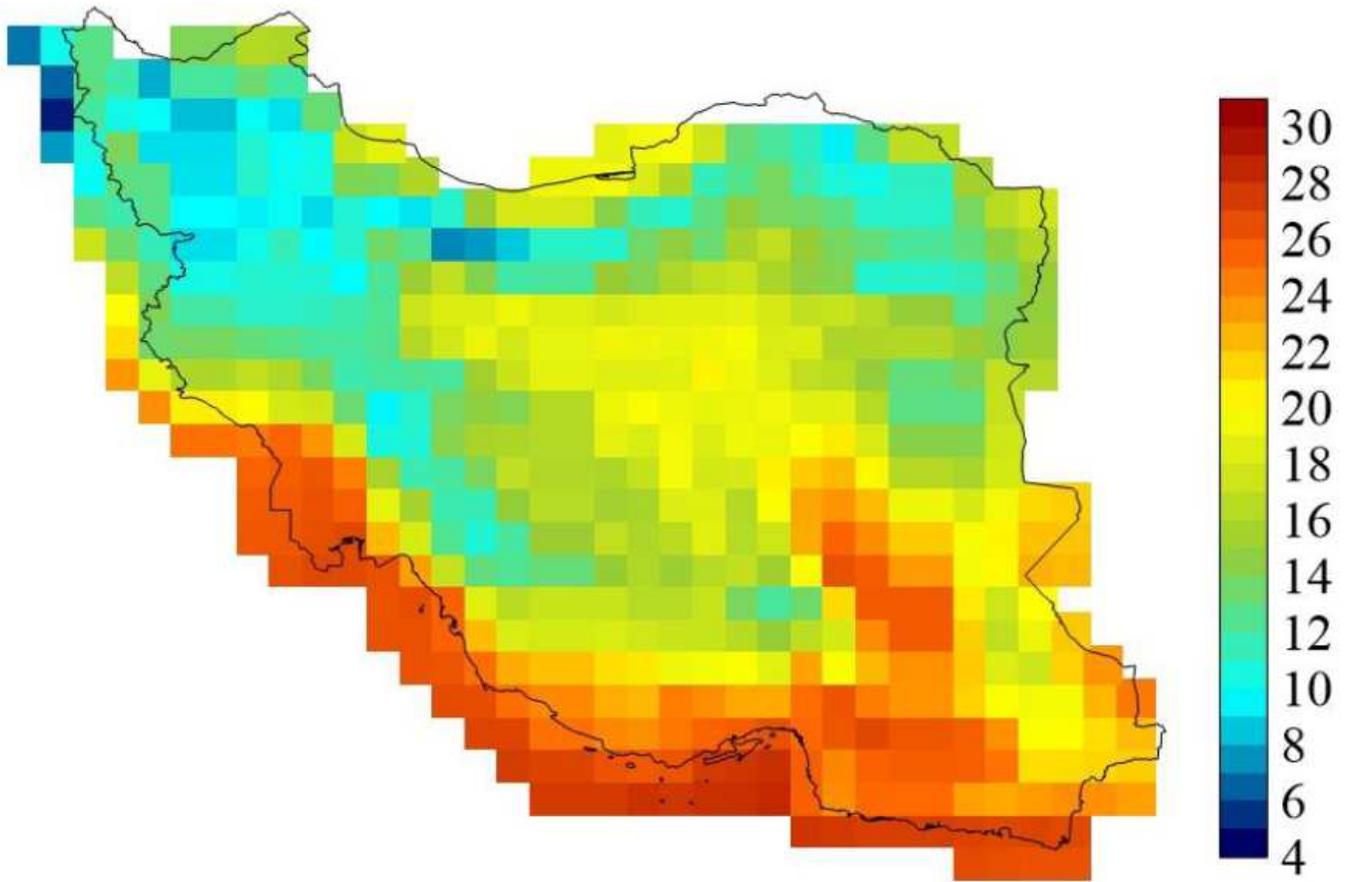
### **Competing interests:**

The authors declare no competing interests.

### **References**

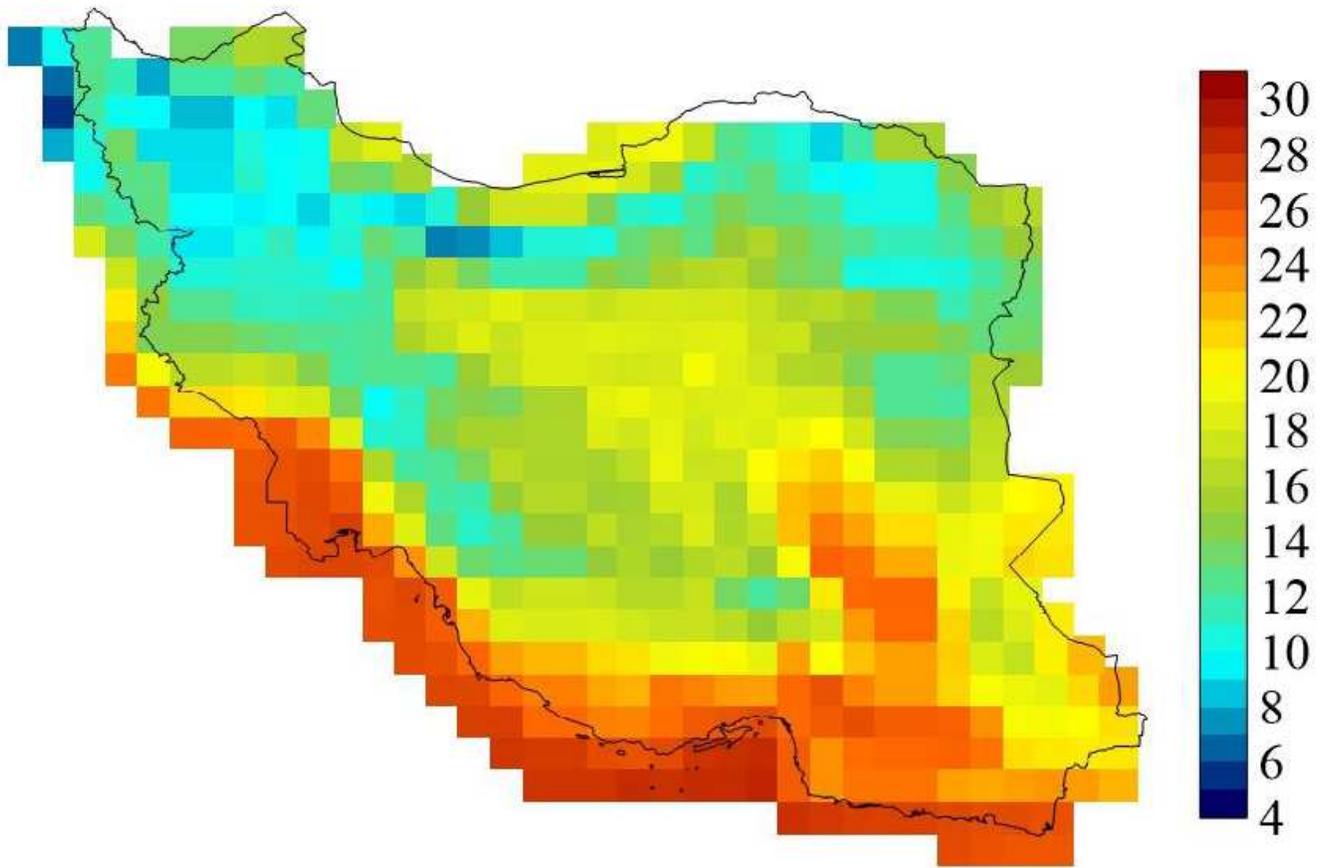
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# Figures



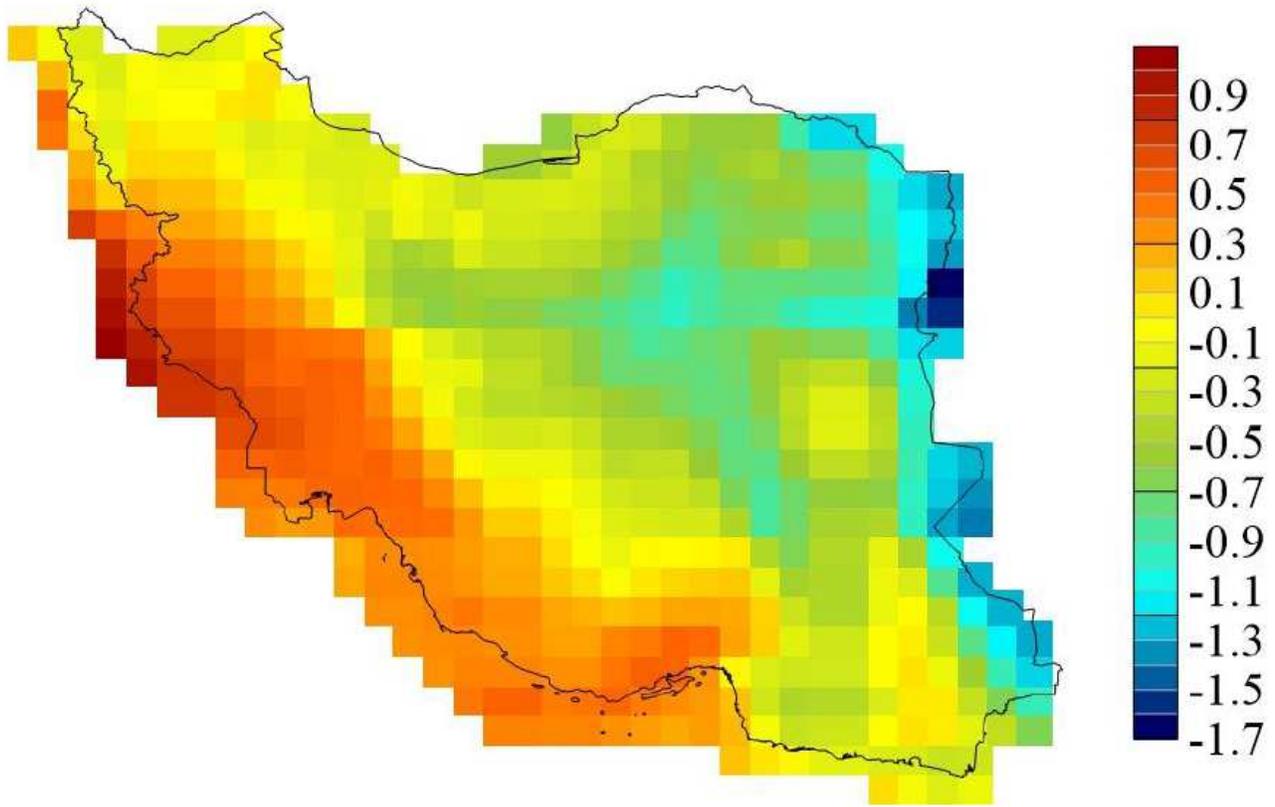
**Figure 1**

Average temperature of Iran based on satellite observations in 2019



**Figure 2**

Average temperature of Iran based on satellite observations in 2020



**Figure 3**

Iranian average temperature difference based on satellite observations between 2019 and 2020