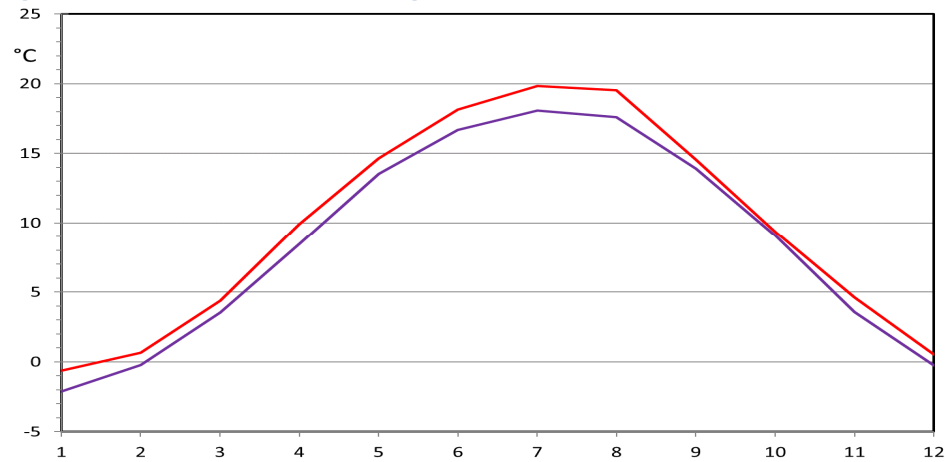


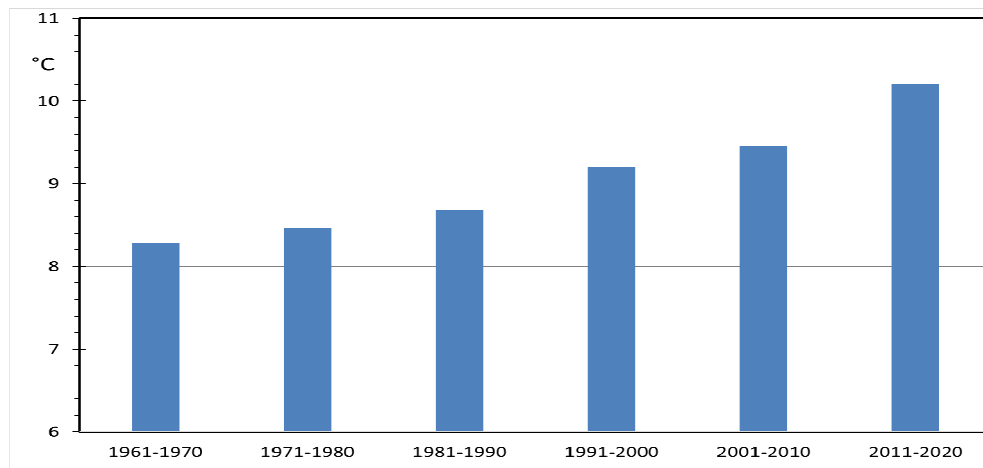
Air temperature dynamics and recreation in the city Hradce Králové

Jaroslav Rožnovský, Jaroslav Střeščík

Course of average monthly air temperatures (°C) for the normal periods 1961 - 1990 (blue) and 1991 – 2020 (red) in Nový Hradec

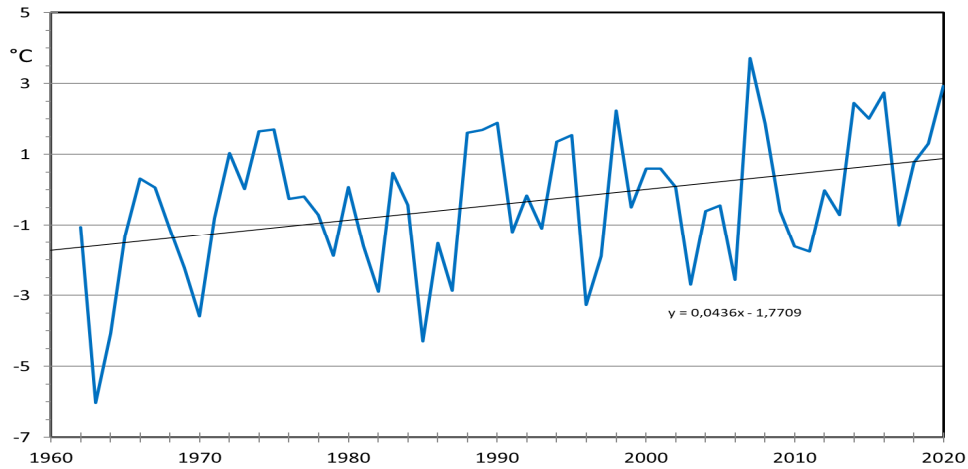


Average annual air temperatures (°C) after decades in the years 1961 - 2020 in Nový Hradec

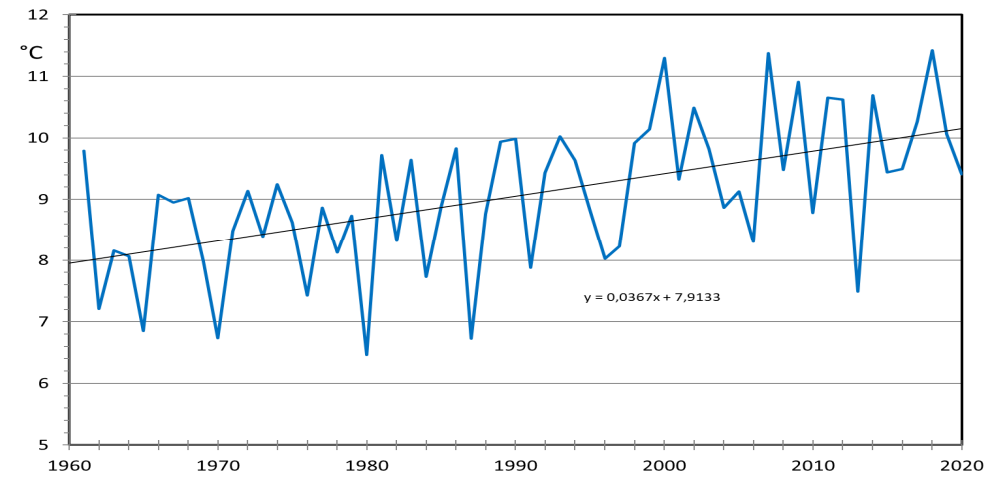


Average air temperatures (° C) in the years 1961 - 2020 and their linear trend in Nový Hradec

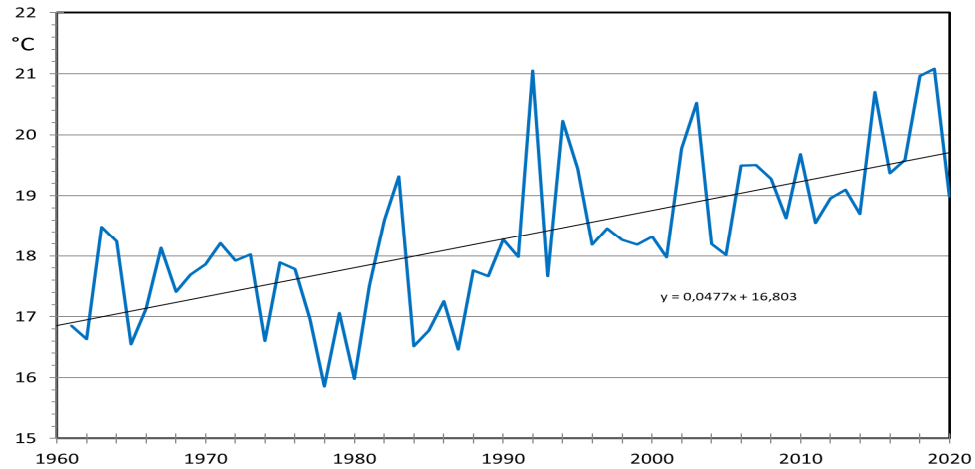
winter



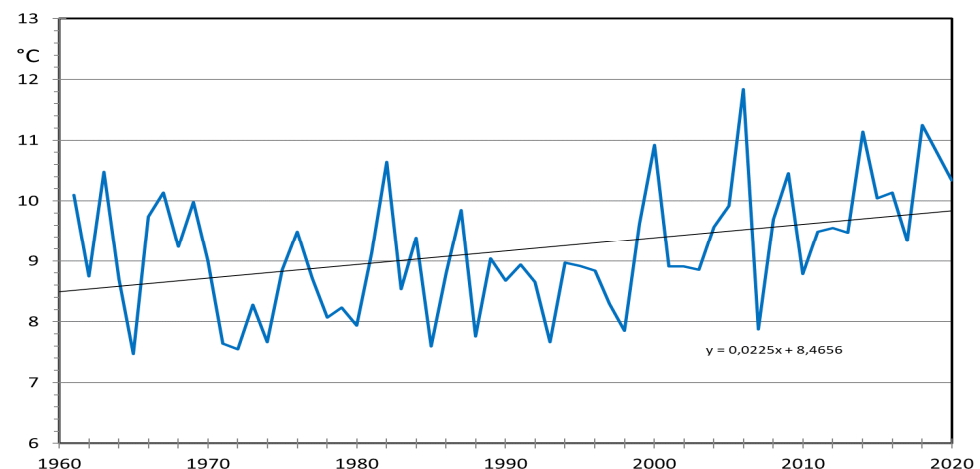
spring



summer



autumn



Conclusion

Air temperatures in the city of Hradec Králové increase in all seasons of the year.

Highest rate of increase is observed in the summer, particularly in the central built-up areas of cities, where there is no or a minimum ratio of greenery,

The air temperatures exceed the values favorable for outdoor stay, i.e. cause discomfort or even extreme discomfort.

Increase of air temperature in the spring and autumn, on the other hand, prolongs the suitable period for recreation.

Rising air temperature negatively affects winter recreation, because shorter period of snow cover makes it more difficult to maintain ice for skating etc.

However, with regard to the outputs from climatological models, it is necessary to look for ways of preventing further rise in air temperature in general, especially in the cities.

Despite the fact that Hradec Králové is known for its large parks and green areas, these should be further expanded in order to take advantage of the cooling effect of greenery as much as possible.

Thank's you for your attention