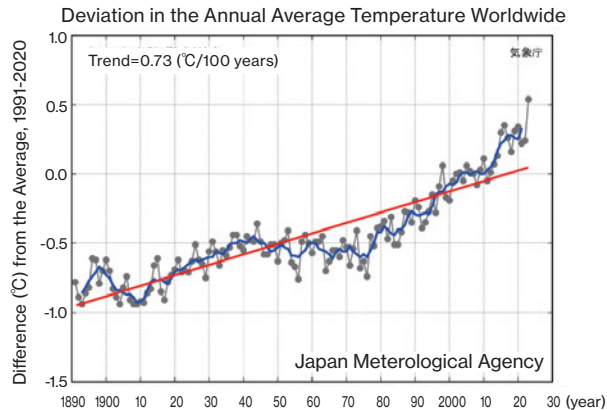


# Changes in Average Temperatures

## Deviation in the Annual Average Temperature Worldwide (1891 to 2024)

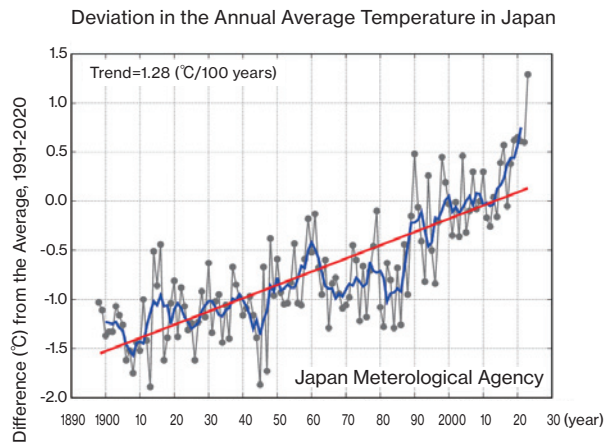


Thin line (black) : Deviation from the reference value each year (difference from the 1991 to 2020 average)  
(Deviation in 2024 was +0.62°C)

Thick line (blue) : Deviation in the 5-year moving average

Solid line (red) : Long-term trends  
(Rising at a rate of 0.77°C/100 years)

## Deviation in the Annual Average Temperature in Japan (1898 to 2024)



Thin line (black) : Deviation from the reference value at the 15 observation sites\* in Japan  
(Average deviation in 2024 was +1.48°C)

Thick line (blue) : Deviation in the 5-year moving average

Solid line (red) : Long-term trends  
(Rising at a rate of 1.40°C/100 years)

\*The 15 observation sites are in Abashiri, Nemuro, Suttsu, Yamagata, Ishinomaki, Fushiki (Takaoka City), Iida, Choshi, Sakai, Hamada, Hikone, Miyazaki, Tadotsu, Naze, Ishigaki.