

Errata of “Tokyo Climate Center: TCC News No. 79”  
(24 December 2025)

Global temperature for 2024 was the highest since 1891

P1

(Correct)

JMA analysis indicates that the annual anomaly of the global average surface temperature for 2024 (i.e., the combined average of the near-surface air temperatures over land and the sea- surface temperatures) was **+0.63°C** above the 1991 – 2020 average, and was the warmest on record since 1891 (Figure 1-1).

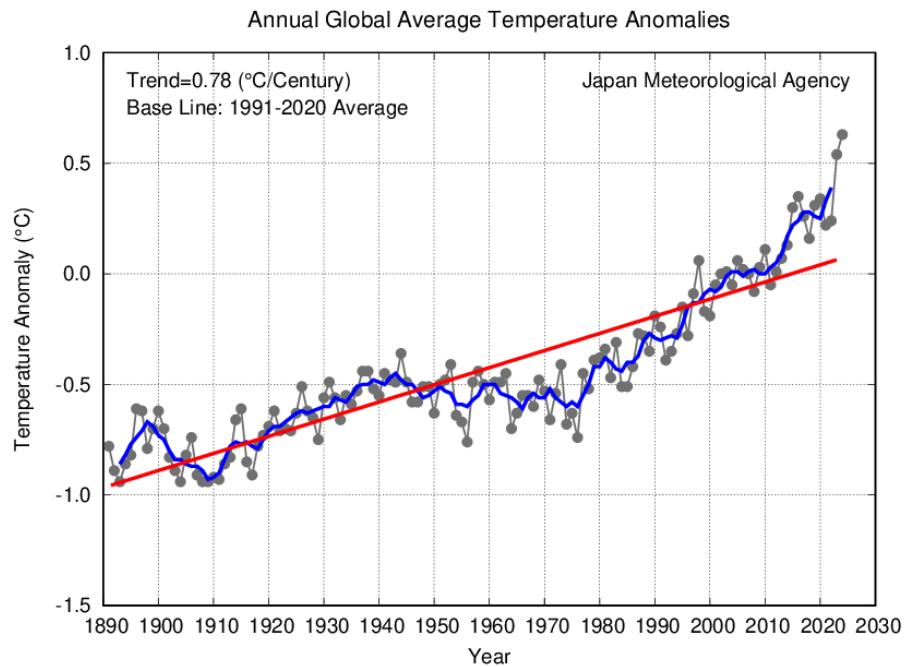
On a longer time scale, the annual global average surface temperature has risen at a rate of about **+0.78°C** per century, and 2015 to 2024 were among the warmest decade since 1891 (Table 1-1). These recent high temperatures are thought to be affected by the global warming due to increase in anthropogenic greenhouse gas concentrations including carbon dioxide. In addition, the global averaged surface temperature is affected by inter-annual to decadal natural fluctuations intrinsic to the earth’s climate.

(Incorrect)

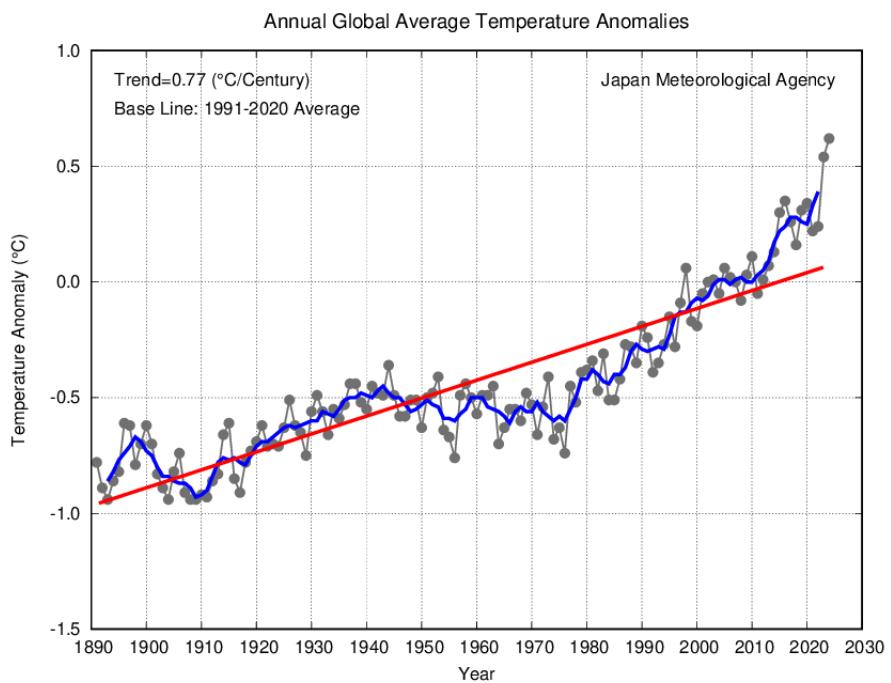
JMA analysis indicates that the annual anomaly of the global average surface temperature for 2024 (i.e., the combined average of the near-surface air temperatures over land and the sea- surface temperatures) was **+0.62°C** above the 1991 – 2020 average, and was the warmest on record since 1891 (Figure 1-1).

On a longer time scale, the annual global average surface temperature has risen at a rate of about **+0.77°C** per century, and 2015 to 2024 were among the warmest decade since 1891 (Table 1-1). These recent high temperatures are thought to be affected by the global warming due to increase in anthropogenic greenhouse gas concentrations including carbon dioxide. In addition, the global averaged surface temperature is affected by inter-annual to decadal natural fluctuations intrinsic to the earth’s climate.

P2 Figure 1-1 Long-term change in annual mean surface temperature anomalies over the globe  
(Correct)



(Incorrect)



P3 Table 1-1 Ranking of annual global average temperatures

(Correct)

Rank	Year	Temperature Anomaly w.r.t. 1991 – 2020 average
1	2024	+0.63
2	2023	+0.54
3	2016	+0.35
4	2020	+0.34
5	2019	+0.31
6	2015	+0.30
7	2017	+0.26
8	2022	+0.24
9	2021	+0.22
10	2018	+0.16

(Incorrect)

Rank	Year	Temperature Anomaly w.r.t. 1991 – 2020 average
1	2024	+0.62
2	2023	+0.54
3	2016	+0.35
4	2020	+0.34
5	2019	+0.31
6	2015	+0.30
7	2017	+0.26
8	2022	+0.24
9	2021	+0.22
10	2018	+0.16