



Supplement of

NO_x emission estimates during the 2014 Youth Olympic Games in Nanjing

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Calculation of NO₂ concentration from the Air Quality Index

The formula to calculate the NO₂ concentration from the Air Quality Index (AQI) is according the piecewise linear function:

$$C = \frac{I - I_{low}}{I_{high} - I_{low}} (C_{high} - C_{low}) + C_{low}$$

C is the NO₂ concentration; I is the AQI; C_{low} is the concentration breakpoint is lower than C ; C_{high} is the concentration breakpoint is higher than C ; I is the index breakpoint corresponding to C_{low} ; I_{high} is the index breakpoint corresponding to C_{high} .

The Air Quality Index (AQI) with its corresponding NO₂ concentration breakpoint.

Air Quality Index (I)	NO ₂ hourly mean (ug m ⁻³) (C)
0	0
50	100
100	200
150	700
200	1200
300	2340
400	3090
500	3840