Dear Editors:

Thank you very much for your detailed modification and comments. We have revised our manuscript and here is a point-by-point reply to the comments.

Comment 1: What is the reference for this one? < line 24 >

This reference comes from the press release of The People's Government of Beijing Municipality. Now we have added the reference information and correct the reference format.

Before modification	After modification
The rainstorm and waterlogging destroyed 10,660 houses, caused economic losses of up to RMB 11.64 billion, and the deaths of up to 79 people (2012)	The rainstorm and waterlogging destroyed 10,660 houses, caused economic losses of up to RMB 11.64 billion, and the deaths of up to 79 people (The People's Government of Beijing Municipality, 2012)
http://www.qgshzh.com/show/db15c68a-2f3c-429d-afcd-27e279f95e40, 2012 08 06	The People's Government of Beijing Municipality, "7.21" Beijing Torrential rain press conference, http://www.qgshzh.com/show/db15c68a-2f3c-429d-afcd-27e279f95e40, last access: 29 August 2022

Comment 2: Please tidy up the referencing style. No need to put years within brackets if the references are in a bracket already

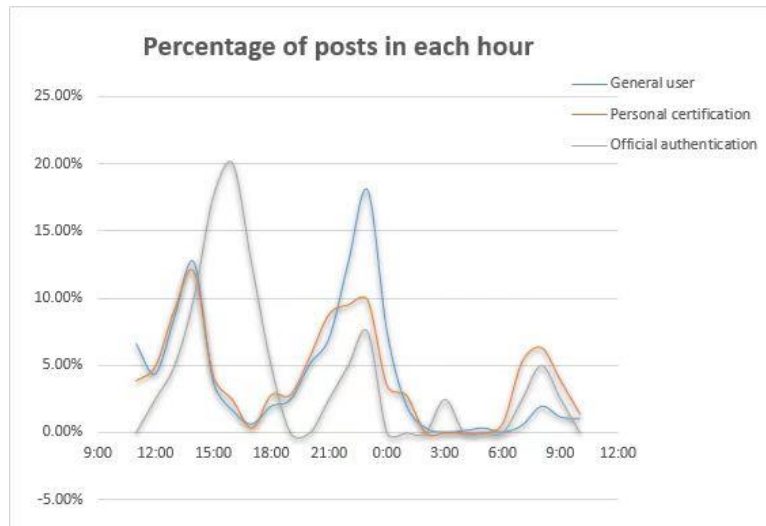
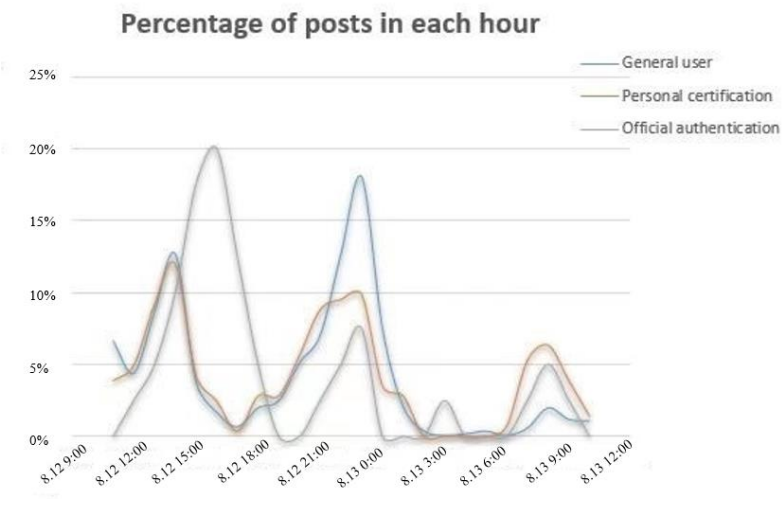
We are sorry for such oversights. Now we have reviewed the reference style of the full paper and corrected the style in line 34, 37, 38, 41, 44, 51, 59, 60, 73, 145, 200, 236, 265.

Comment 3: State since which year this is the heaviest and how many days in advance instead of using vague word. < line 83 >

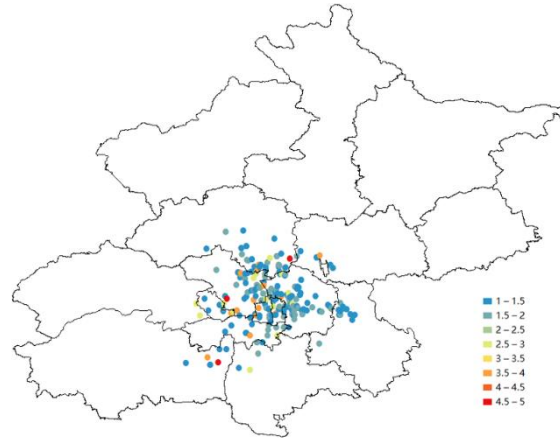
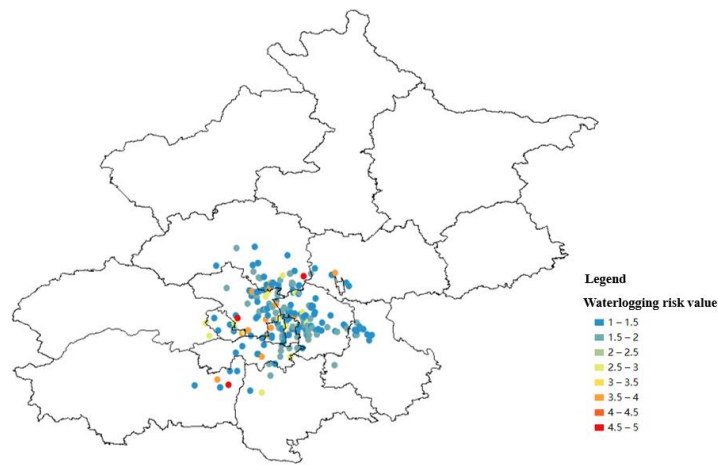
We are grateful to the editor for correcting our vague presentation. Now we have introduced the specific data.

Before modification	After modification
In the case A, meteorological information showed it was the heaviest precipitation in Beijing in recent years, so the warning was issued a long time before the precipitation.	In the case A, meteorological information showed it was the heaviest precipitation in Beijing since 2012, so the warning was issued 24 hours before the precipitation.

Comment 4: Starting y axis from zero. Remove .00 from y-axis. Put in the date on the x axis.

Before modification

After modification

Comment 5: When refer to a figure in the texts, start with capital - i.e. Figure 4. Please correct all such cases

Thank you for your detailed revision. We have corrected all such cases in line 226, 269, 284, 298 and 303.

Comment 6: State the unit of the numbers on the legend - in the caption or the legend itself.

Other adjustments:

Adjustment 1: Correct the reference style and information in line 298.

Before modification	After modification
The rainstorm and waterlogging destroyed 10,660 houses, caused economic losses of up to RMB 11.64 billion, and the deaths of up to 79 people (2012)	The rainstorm and waterlogging destroyed 10,660 houses, caused economic losses of up to RMB 11.64 billion, and the deaths of up to 79 people (The People's Government of Beijing Municipality, 2012)
http://www.qgshzh.com/show/db15c68a-2f3c-429d-afcd-27e279f95e40, 2012 08 06	The People's Government of Beijing Municipality, "7.21" Beijing Torrential rain press conference, http://www.qgshzh.com/show/db15c68a-2f3c-429d-afcd-27e279f95e40, last access: 29 August 2022

Adjustment 2: Adding labels of panels with Lowercase letters in Figure 2, 5 and 6

Fig2 Before modification	
Fig2 After modification	

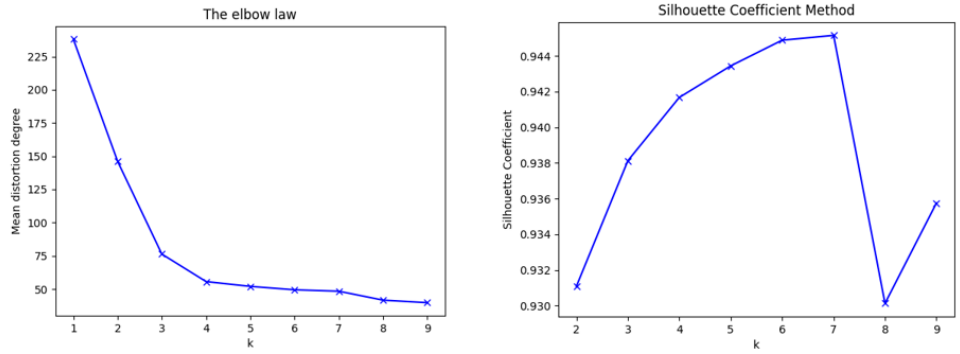
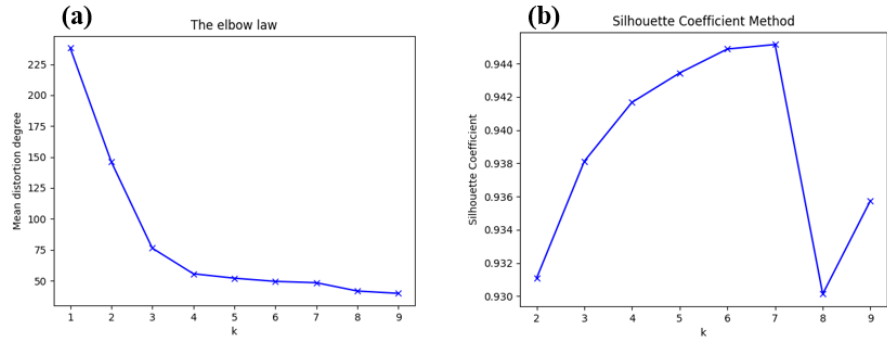



Fig5 Before modification	
Fig5 After modification	

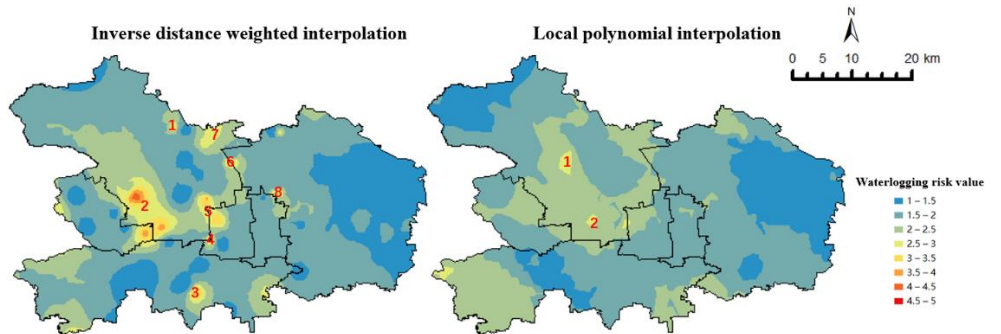
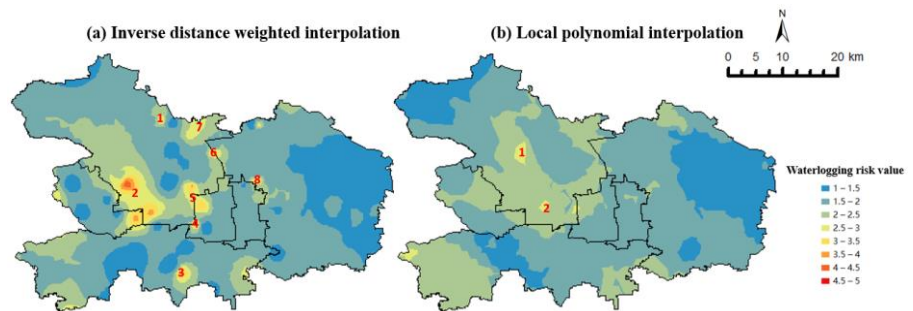
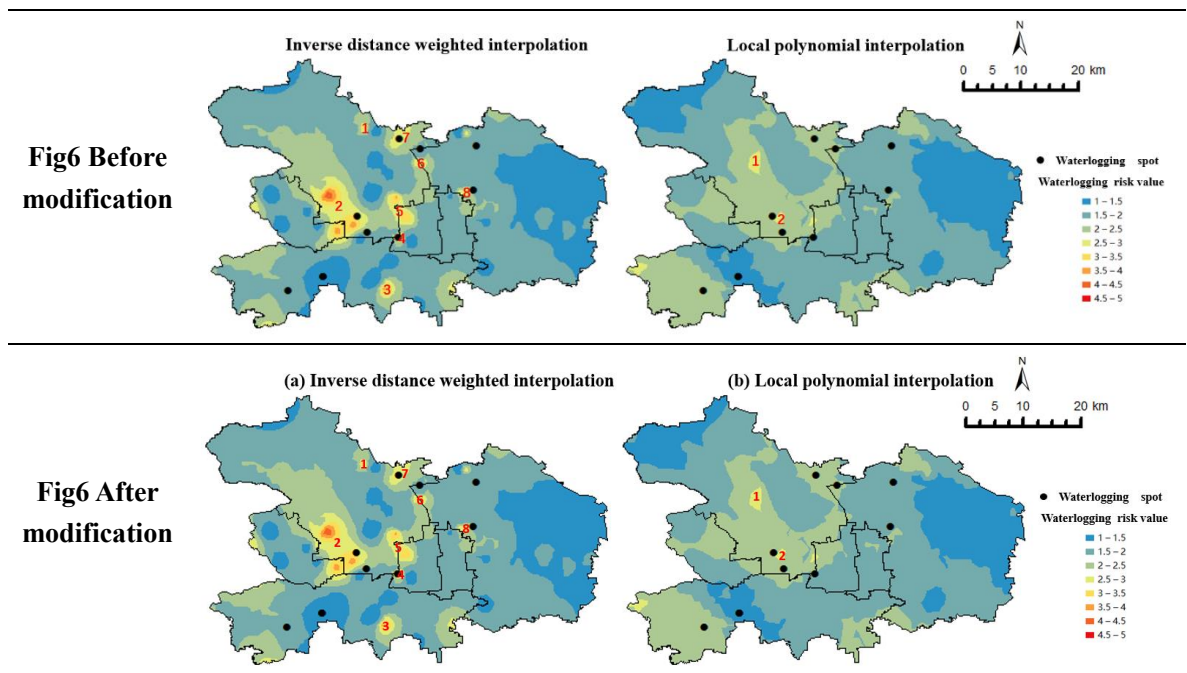



Fig6 Before modification	
Fig6 After modification	

Adjustment 3: Adding a comma at the end of each equation

Our equations are all written by the equation editor as required. However, in case of opening the document in different Word vision, they may change to the graphic mode. It can be resolved by 'File' - 'Compatibility mode'.

Adjustment 4: Formatting the references section.
1. Put the year information at the end of each reference.
2. A colon has been added between the author and the reference title.
3. Add persistent identifier (not DOI) to two references

Before modification	After modification
Bo, T.: Application of earthquake disaster data mining and intensity rapid assessment based on social media. Institute of Engineering Mechanics, China Earthquake Administration, 2018	Bo, T.: Application of earthquake disaster data mining and intensity rapid assessment based on social media. Institute of Engineering Mechanics, China Earthquake Administration, https://kns.cnki.net/KCMS/detail/detail.aspx?dbname=CDFDLAST2022andfilename=1019239057.nh, 2018
Rossman, L. A.: Storm water management model user's manual, version 5.0. Cincinnati: National Risk Management Research Laboratory, Office of Research and Development, US Environmental Protection Agency, 2010.	Rossman, L. A.: Storm water management model user's manual, version 5.0. Cincinnati: National Risk Management Research Laboratory, Office of Research and Development, US Environmental Protection Agency, https://data.aquacloud.net/public/2018/hla-hydrolatinamerica/olivgon5/public/Data/epaswmm5_user_manual.pdf (last access: 29 August 2022), 2010.