

XINGYU ZHOU



COUNTRY OF ORIGIN / BIRTH COUNTRY

China

EDUCATIONAL BACKGROUND

Hydrology and Water Resources Engineering

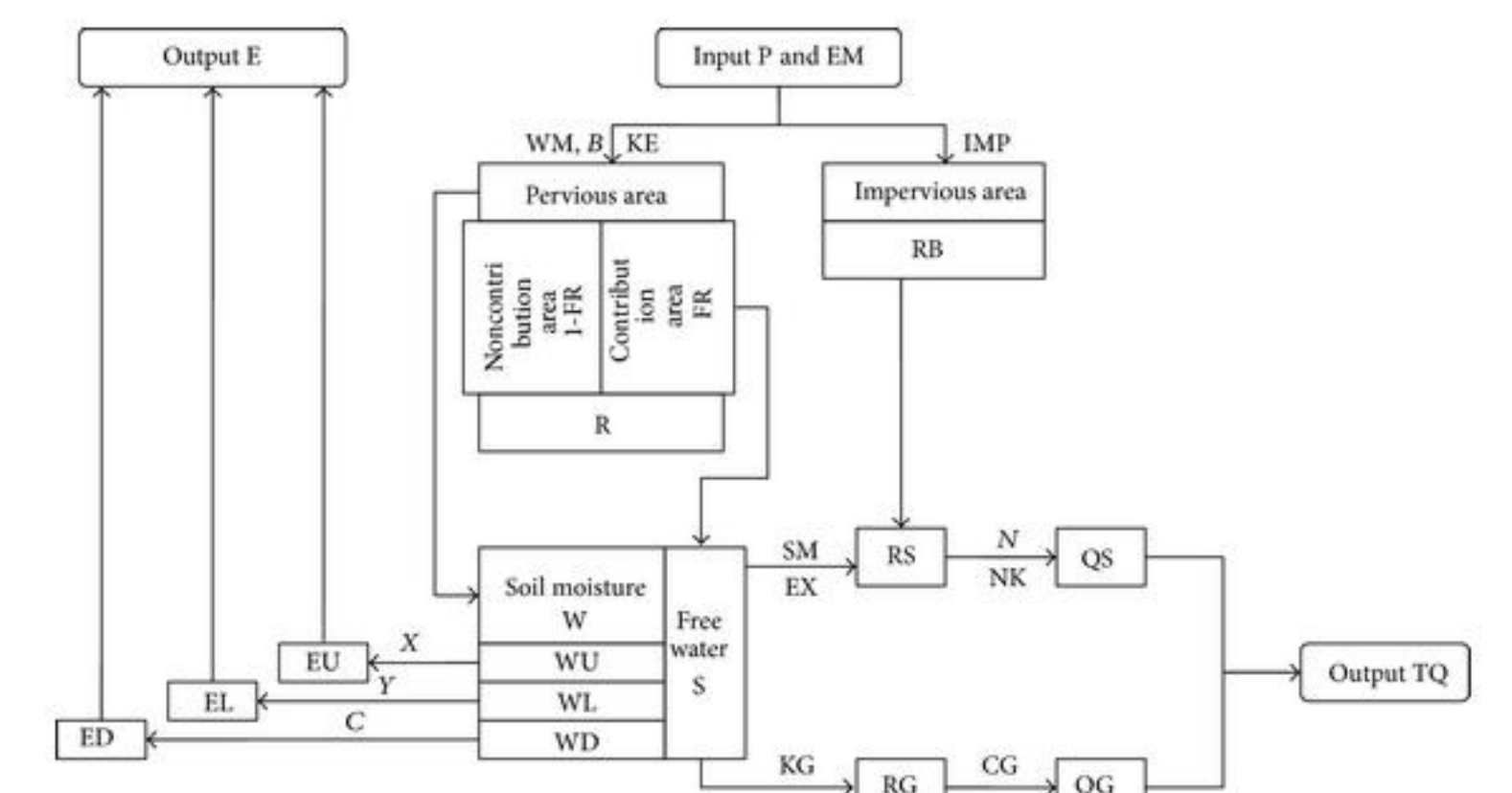
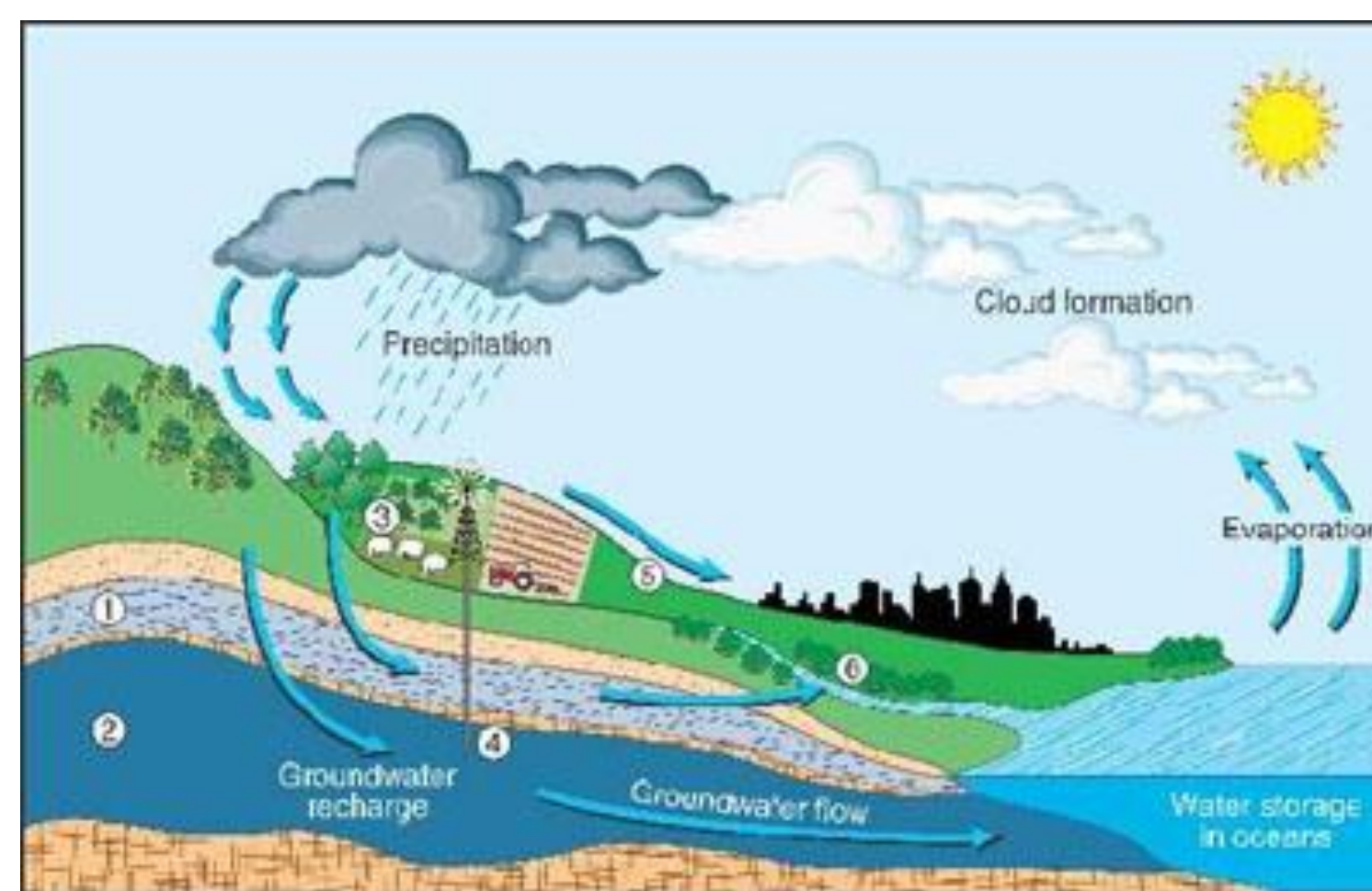
WHY I CHOSE HYDROINFORMATICS:

There are many kinds of water related problems in China. In my hometown where is located in southern part of China, we almost suffer from the inconvenience coming from too much water in rain season every year. It is urgent to find an appropriate way to solve the problems and manage water or live with water now in my hometown. That is why I chose to work in water related field.

In my bachelor studying, I focused on basic hydrology knowledge and methods, which is not sufficient for further study. So it is necessary to explore more and combine some other skills with hydrology.

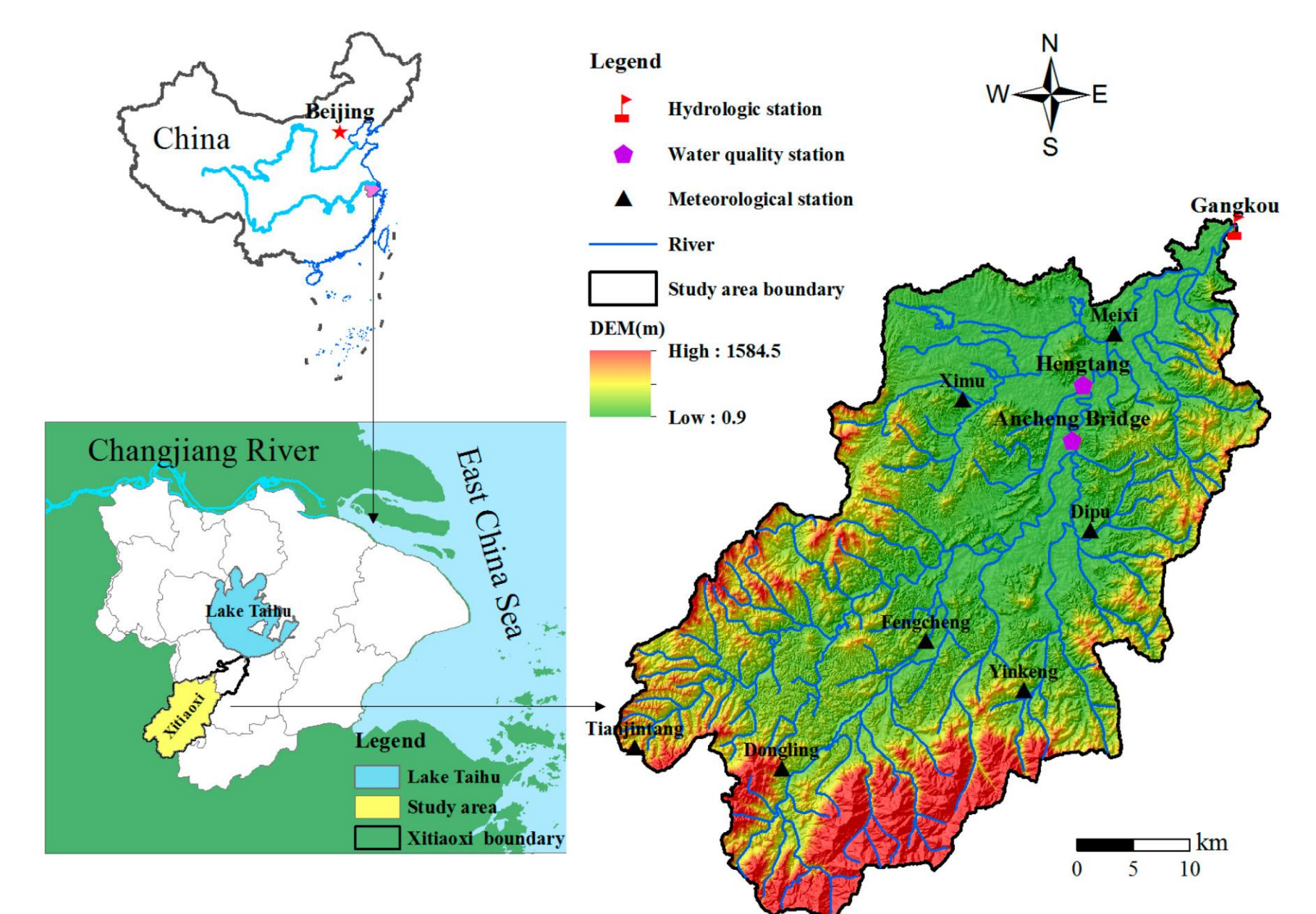
When I was in my internship, I met some tricky problems and found that it is almost impossible to solve some of them without practical modelling let alone make a project. I am eager to master the use of model and the theory behind them so that they can be applied into the realistic situations.

With the suggestions from professors of my university in China, I finally chose IHE because of its professional knowledge, advanced science and practical learning.



HOW I WILL USE THE KNOWLEDGE GAINED IN THE PROGRAM:

I will take advantage of the expertise and skills I learnt in IHE in the future design or projects. Specifically, exploring more accurate simulation of (some parts of) hydrological cycle, making different scenarios to figure out the better way to mitigate water related problems no matter technologically or ecologically and so on. In conclusion, those knowledge will help us live with water better in the future.



PREVIOUS RESEARCH:

- ✓ Data collection
- ✓ hydrological runoff and hydrodynamic calculation on Lixiahe area in China
- ✓ calibrate and verify a model

RESEARCH INTERESTS:

- ✓ Flood forecast
- ✓ Model development
- ✓ Machine learning techniques
- ✓ Climate change impact

