To fit the platform, we re-construct the plant part of the AquaCrop. Even though there is a GDD mode in AquaCrop, but there are still some calculation involves the specification date.

Here are some points that the AquaCrop Reference Manual Chapter 3 are rough. We refer the source code of OS\_AquaCrop to determine.

The idea of the growth of harvest index is that n the beginning, the harvest index would growth in a exponential speed, and when the speed is fast enough, the speed would be switched to a linear speed. However, it is not defined that which speed is “fast enough”. Therefore, we take the idea in the AquaCrop\_OS.