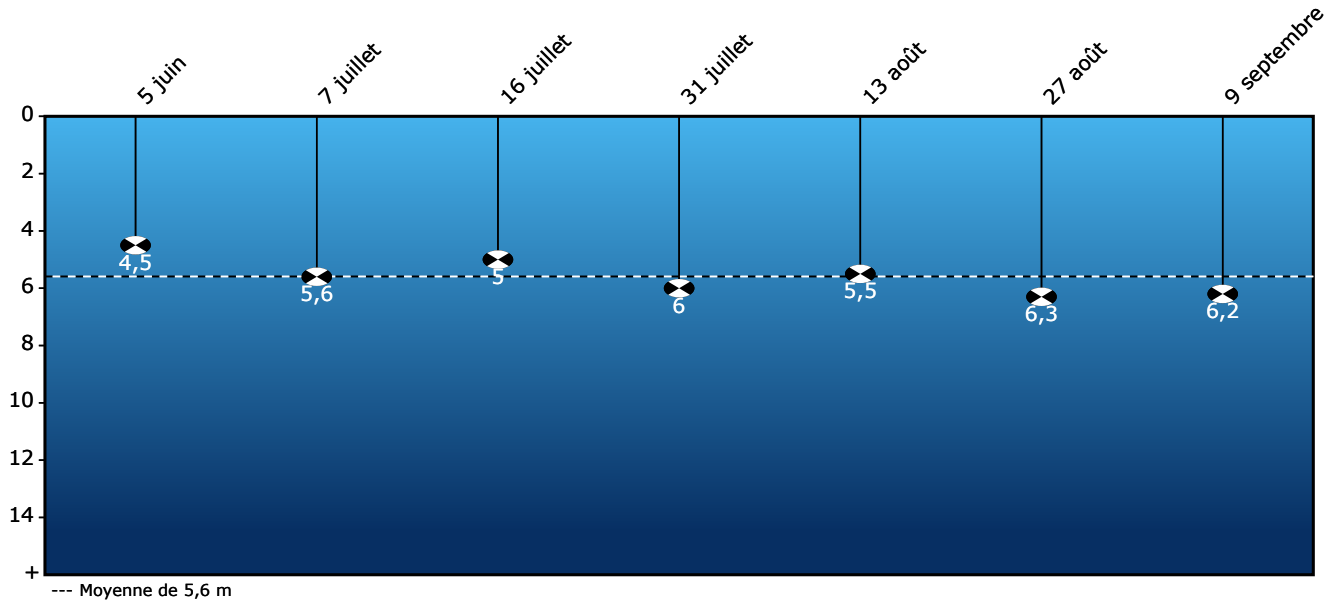




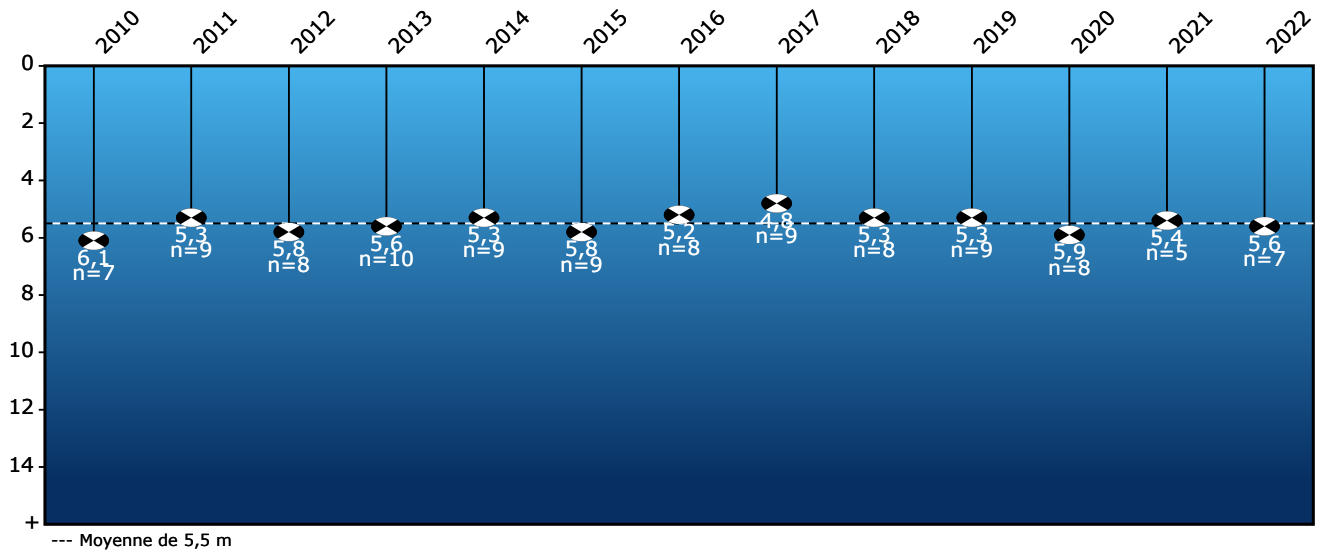
## Voluntary lake monitoring network

### Lac de la Ferme (0555A) - Transparency monitoring 2010-2022

Water transparency - Summer 2022  
(Secchi disc depth in meters)



Average summer transparency  
(Secchi disc depth in meters)



- Water transparency varies with climatic conditions and plankton abundance, which is an index of lake productivity. These variations are reflected in the measurements that are made both within the same season and from one year to the next. For example, a measurement of transparency taken during calm weather may differ from that obtained after a period of water mixing caused by high winds, especially in shallow lakes. It is therefore normal for water transparency to fluctuate from the beginning to the end of summer. Current year variations are shown in the top figure.
- The average summer transparency for each monitoring year is shown in the bottom figure. All the measurements taken over the years make it possible to document the variability of the transparency of a lake's water. As long as the data accumulated over the years remains within the limits of normal interannual variability, we speak of stable conditions. Outside these limits, we speak of a significant change or an upward or downward trend. However, it takes several years of data collection to determine the normal variability of a lake.

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