Improved Usability of Time-Series Data

The key achievements of this pilot project (SPOTS) are the highly granular documentation of methods of all participating sites, and the related "Best-Practice" assessment. These enable proper usage and interpretation of time-series within the context of easy recognition of method changes. More precisely, these granular metadata can be used to analyze correlations between detected tipping points and method changes. The figure below illustrates the assigned Best-Practice flags and changes for the EOV (Essential Ocean Variable) nitrate for each time-series. These timelines demonstrate the power of metadata and why it is important to collect metadata at a granular level.

Lange et al., 2023