About the inclusion of other surface measurements in SOCAT

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CO\textsubscript{2} meets other gases

CO\textsubscript{2} is not alone

- New sensors made it possible to measure N\textsubscript{2}O and CH\textsubscript{4} with the same frequency as CO\textsubscript{2}
- This sensors can be easily coupled to existing underway equilibration systems

This results in huge amount of surface N\textsubscript{2}O/CH\textsubscript{4} data being recorded together with surface pCO\textsubscript{2} data.
SOCAT meets MEMENTO

• Underway surface $N_2O$ and $CH_4$ data in a uniform format
• Vertical profile data of $N_2O$ and $CH_4$
• Data were measured by different methods
• Database is available on request

• Existing infrastructure for surface ocean data
• Well known data product
• ...
• General agreement in combining the datasets
• SOCAT and MEMENTO will **both** be visible
• Infrastructure needs to get ready for inclusion of MEMEMTO data
• How is the QCing harmonized
• ...

• What is with other parameters?
  • Oxygen
  • DIC
  • Alkalinity
  • ...

\[ \text{MEMENTO} \]
\[ \text{Marine CH}_4 - \text{N}_2\text{O database} \]