

## Science Workflows using Kamodo

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Kamodo is a powerful python software package based on data functionalization. Once a given data set is functionalized, a large variety of capabilities are easily accessible in Kamodo, including unit conversions, custom analysis via function composition, interactive publication quality visualizations, and LaTeX encoding. The entirety of capabilities available in Kamodo are easily applied to both simulated and observed data across the multiple domains of Heliophysics and even in other disciplines. This work includes a variety of science workflows using Kamodo in combination with other resources, including with other python software packages, that expand the utility of Kamodo even further. These workflows include model-data comparisons, ensemble modeling examples, satellite mission planning examples, and other applications, all of which are freely available on CCMC's Kamodo Github page for the community to adapt to their own uses (<https://github.com/nasa/Kamodo>). We invite the community to use these workflows and to contribute their own to share.

To be submitted to the PyHC session as a poster: SH023 - Python Implementations in Solar and Space Physics, <https://agu.confex.com/agu/fm22/prelim.cgi/Session/160670>