

## **Physics Updates in stand-alone MPAS**

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We summarize updates implemented in the stand-alone Model for Prediction Across Scales (MPAS) since the release of version 8.1. Besides bug fixes, we discuss the implementation of the Noah-MP land surface scheme (LSM) as an alternate to using the Noah LSM. We also describe the ongoing development of a shared physics repository for WRF, MPAS, and CM1. Finally, we list physics parameterizations that will be made available over the summer of 2024.