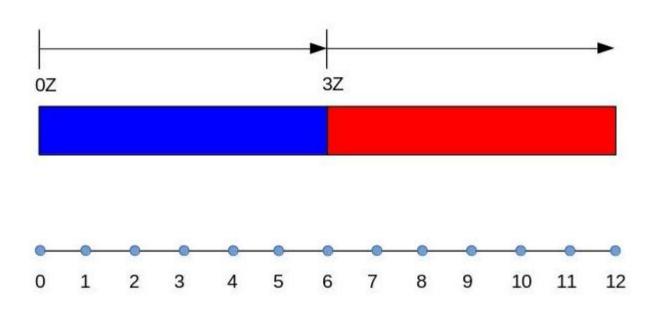


Cos(zenith_angle) and data model advance



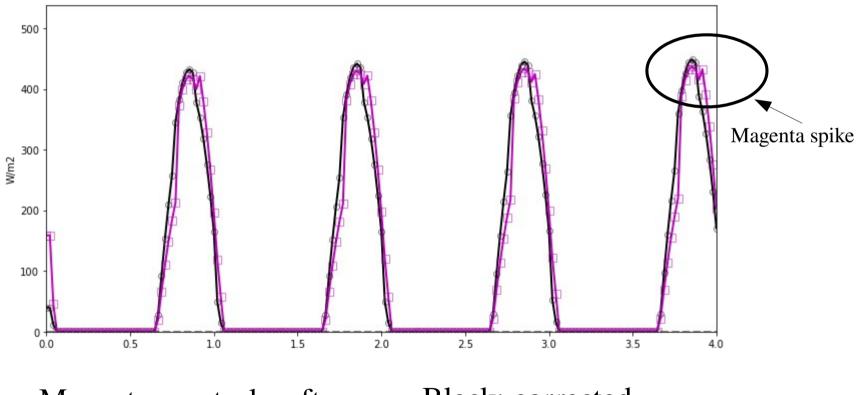
When to advance datm with respect to model timesteps



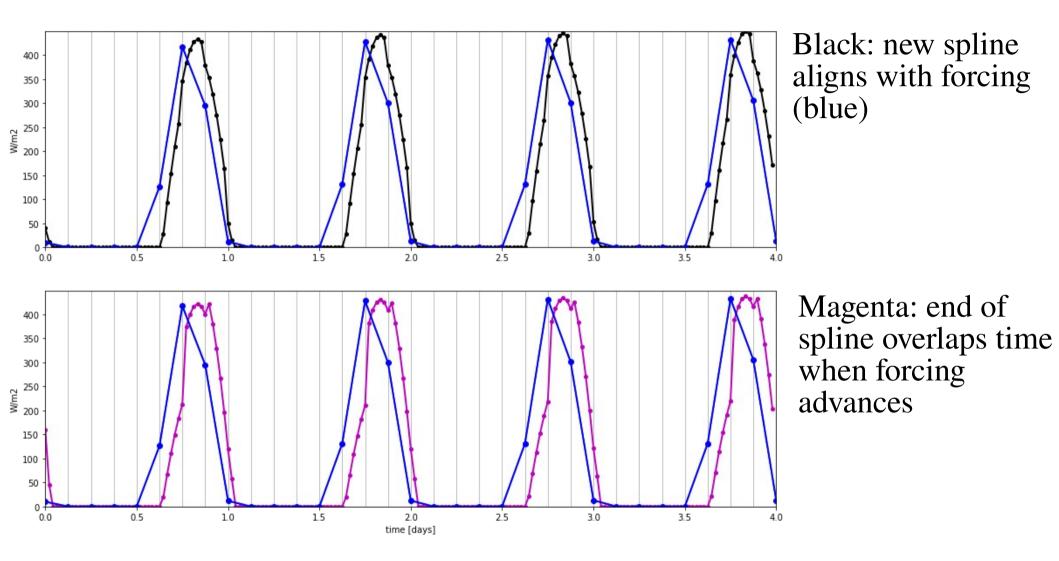
Timesteps 0-5 span first 3 hours Timesteps 6-11 span second 3 hours

Current behavior advances 1 time step late; to compensate, coszen tavg was advanced too early

FSDS [W/m2] Lon: 240.00 \ Lat: 38.17 () Gridcell Avg

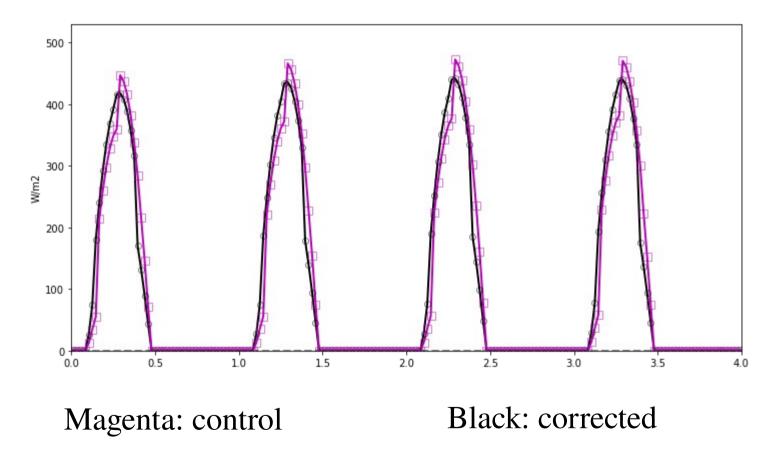


Magenta: control - often shows spikes at forcing transitions Black: corrected, smoother behavior



A second example location

FSDS [W/m2] Lon: 85.00 \ Lat: 40.05 () Gridcell Avg



FSDS [W/m2] Lon: 85.00 \ Lat: 40.05 () Col 1

