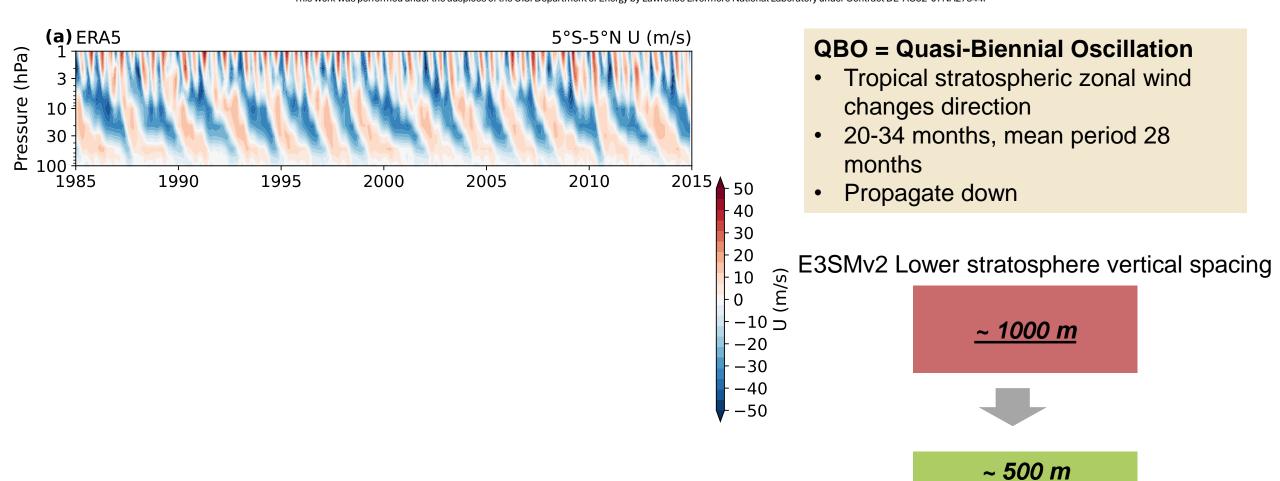
Improving the QBO Forcing by Resolved Waves with Vertical Grid Refinement in E3SMv2

Wandi Yu¹, Walter M. Hannah¹, James J. Benedict², Chih-Chieh-Jack Chen³, Jadwiga H. Richter³

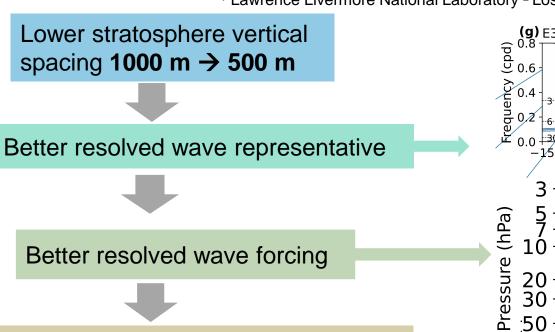
¹ Lawrence Livermore National Laboratory ² Los Alamos National Laboratory ³ National Center for Atmospheric Research

This work was performed under the auspices of the U.S. Department of Energy by Lawrence Livermore National Laboratory under Contract DE-AC52-07NA27344.



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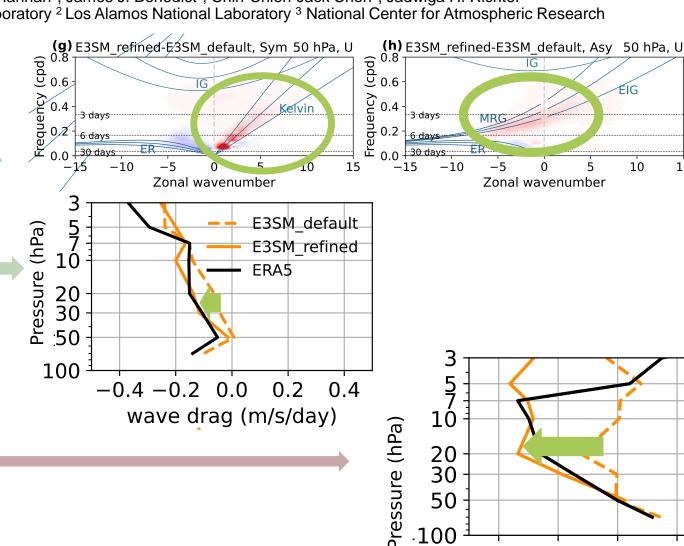
Better wave-mean flow interaction



Better parameterized wave forcing



More realistic QBO



20

30 50

.100

wave drag (m/s/day)

For more details, please check our poster #10.2!