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Title: QUIC-Fire: 3D Fire-Atmosphere Feedback Model for Wildland Fire Management

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QUIC-Fire: 3D Fire-Atmosphere Feedback Model for Wildland Fire Management

Caption (100 words or less – explaining technology’s scientific relevance and potential impact)

Los Alamos National Laboratory, U.S. Forest Service, and Tall Timbers Research Station developed QUIC-Fire, the first laptop-capable, real-time wildland fire prediction software that captures the critical influences of 3D vegetation structure, interactions between multiple fires, variable winds, and complex topography at meter-scale resolutions. Prescribed burns are needed to prevent catastrophic wildfires in the U.S. QUIC-Fire transforms a prescribed fire manager’s ability to assess risk, optimize fuel treatments, and plan prescribed burns. Los Alamos, U.S. Forest Service, Tall Timbers Research Station, U.S. Fish and Wildlife Service, Spatial Information Group, and Applied Interagency Prescribed Training Center have used QUIC-Fire.

(Bio, word count 65/70)

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