

Design of the Jack Rabbit III international model inter-comparison exercise on Desert Tortoise and FLADIS

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Abstract: This presentation at the GMU AT&D conference discusses the design of the initial model inter-comparison exercise that was initiated by the Modelers Working Group (MWG) in 2021 to support the Jack Rabbit III project. It explains the decision process used by the MWG to select the six trials from the Desert Tortoise and FLADIS field-scale test series for the modelling exercise, and it explains the quality assurance checks and other investigations that were undertaken to specify the model input conditions. This included examination of data from the Desert Tortoise trials to assess the shape of the dispersing cloud. The presentation includes a description of the experiments and discussion of uncertainties in the data. It provides background to a subsequent talk that focuses on the results of the model inter-comparison exercise.

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