Accepted Manuscript

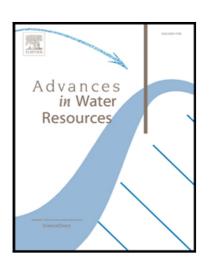
Simulating groundwater uptake and hydraulic redistribution by phreatophytes in a high-resolution, coupled subsurface-land surface model

Si Gou, Gretchen R. Miller, Cody Saville, Reed M. Maxwell, Ian M. Ferguson

 PII:
 S0309-1708(17)30781-9

 DOI:
 https://doi.org/10.1016/j.advwatres.2018.08.008

 Reference:
 ADWR 3181



To appear in:

Advances in Water Resources

Received date:10 August 2017Revised date:10 August 2018Accepted date:14 August 2018

Please cite this article as: Si Gou, Gretchen R. Miller, Cody Saville, Reed M. Maxwell, Ian M. Ferguson, Simulating groundwater uptake and hydraulic redistribution by phreatophytes in a high-resolution, coupled subsurface-land surface model, *Advances in Water Resources* (2018), doi: https://doi.org/10.1016/j.advwatres.2018.08.008

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

HIGHLIGHTS

- Belowground processes in Earth system models continue to present challenges.
- ParFlow.CLM modified to include more realistic root water uptake functions.
- New model capable of predicting groundwater uptake, hydraulic redistribution.
- Model compares favorably to eight years of data from AmeriFlux site in California.
- Improved prediction of latent heat fluxes in drylands with phreatophytes.

Chillip Martin

Download English Version:

https://daneshyari.com/en/article/10117729

Download Persian Version:

https://daneshyari.com/article/10117729

Daneshyari.com