

Accepted Manuscript

The GEM-Mars General Circulation Model for Mars: Description and Evaluation

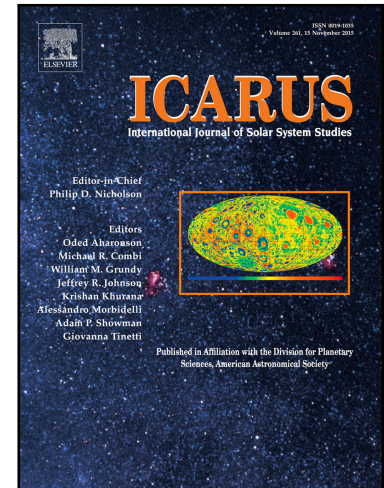
L. Neary , F. Daerden

PII: S0019-1035(17)30227-0
DOI: [10.1016/j.icarus.2017.09.028](https://doi.org/10.1016/j.icarus.2017.09.028)
Reference: YICAR 12624

To appear in: *Icarus*

Received date: 24 March 2017
Revised date: 7 September 2017
Accepted date: 25 September 2017

Please cite this article as: L. Neary , F. Daerden , The GEM-Mars General Circulation Model for Mars: Description and Evaluation, *Icarus* (2017), doi: [10.1016/j.icarus.2017.09.028](https://doi.org/10.1016/j.icarus.2017.09.028)



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.

Highlights

- Description and evaluation of a general circulation model for Mars based on the GEM v4.2.0 weather forecast model
- Model includes active carbon dioxide, pressure, dust and water cycles, and simulates atmospheric chemistry
- Comparisons with measurements taken from orbit and on the surface indicate good performance
- The GCM is a key component for the analysis and interpretation of data from the NOMAD instrument on ExoMars Trace Gas Orbiter

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5486958>

Download Persian Version:

<https://daneshyari.com/article/5486958>

[Daneshyari.com](https://daneshyari.com)