

# Accepted Manuscript

Martian north polar cap summer water cycle

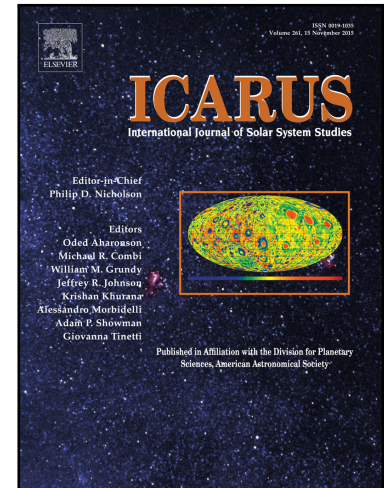
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**Highlights**

- We have identified regions and periods of 'net deposition' and 'net sublimation' on the north
- cap
- Regions of the cap undergo a 'mode flip' from sublimation to deposition mode
- We estimate water ice layer ~70 microns thick deposited in the  $L_s=135$ -164 period

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