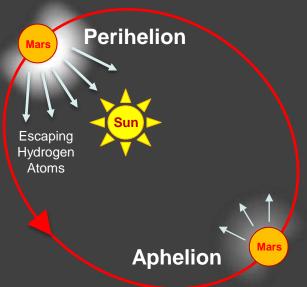
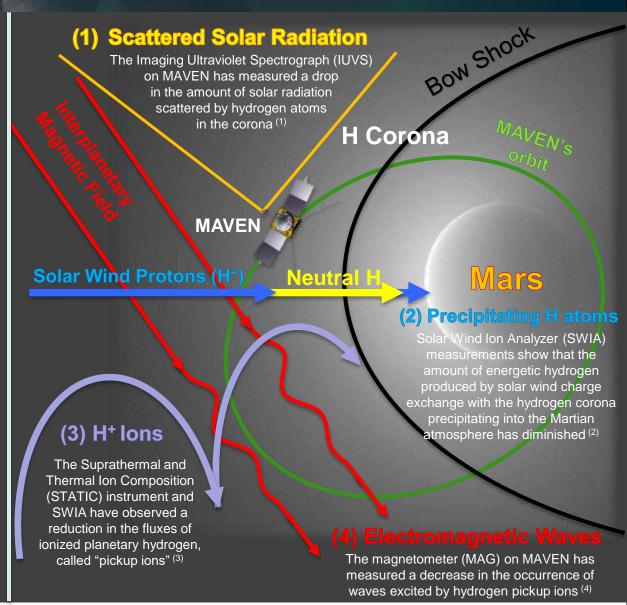
## MAVEN Detects Steep Drop in Hydrogen Escape at Mars

Understanding the escape rate hydrogen is critical to understanding how Mars evolved from a wet planet to its current desert conditions. MAVEN has detected an unexpectedly precipitous drop in the hydrogen escape rate from Mars over the course of a Mars year. Independent observations from four MAVEN instruments show a factor of 10 decrease in the abundance of hydrogen in the corona, corresponding to a similar decrease in the neutral H escape rate. Though a decline in coronal density was expected as Mars goes from perihelion to aphelion, the MAVEN team is working to explain why the decrease is so much more than the predicted factor of two.





(1) Clarke et al. (2) Halekas et al. (3) Rahmati et al. (4) Romanelli et al. (JGR MAVEN Special Issue, 2016)