



## **3D Global Hall MHD Simulations of Titan's interaction with its surrounding plasma.?**

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Our 3-D, multispecies, nonideal MHD model has been further improved by considering the Hall effect. We have used this new model and measured upstream parameters to simulate the conditions corresponding to the T9 and T18 Titan flybys by Cassini. We have looked at a number of influences of the Hall effect (e.g. the formation of Titan's magnetotail) and present the results of these calculations and compare them with the relevant, observed parameters.