



Geophysical Research Letters

Supporting Information for

Martian atmospheric tides revealed from MAVEN and MCS Observations

Chengyun Yang^{1,2}, Tao Li^{*1,2}, Mengzhen Yuan¹ and Zhaopeng Wu³

1 CAS Key Laboratory of Geospace Environment, School of Earth and Space Sciences, University of Science and Technology of China, Hefei, China.

2 CAS Center for Excellence in Comparative Planetology, University of Science and Technology of China, Hefei, China.

3 Key Laboratory of Earth and Planetary Physics, Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China.

Corresponding author: Tao. Li, litao@ustc.edu.cn

Contents of this file

Figures S1 to S2

Introduction

This supporting information provides the mean amplitudes of the Diurnal and Semidiurnal tides averaged over 100-145 km (Figure S1), and the averaged phase over all solar longitudes (Ls) spans for all the diurnal and semidiurnal tide in the tropical region (30°N-30°S) from 100 km to 160 km, based on data from MAVEN/IUVS (Figures S2).

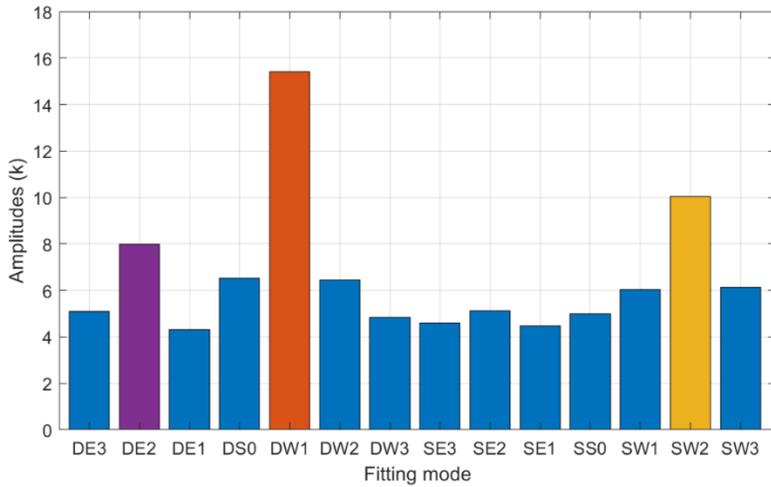


Figure S1. The mean amplitudes of the Diurnal and Semidiurnal tides averaged over 100-145 km. Red, yellow and purple bars indicate DW1, SW2 and DE2 tidal amplitudes, respectively.

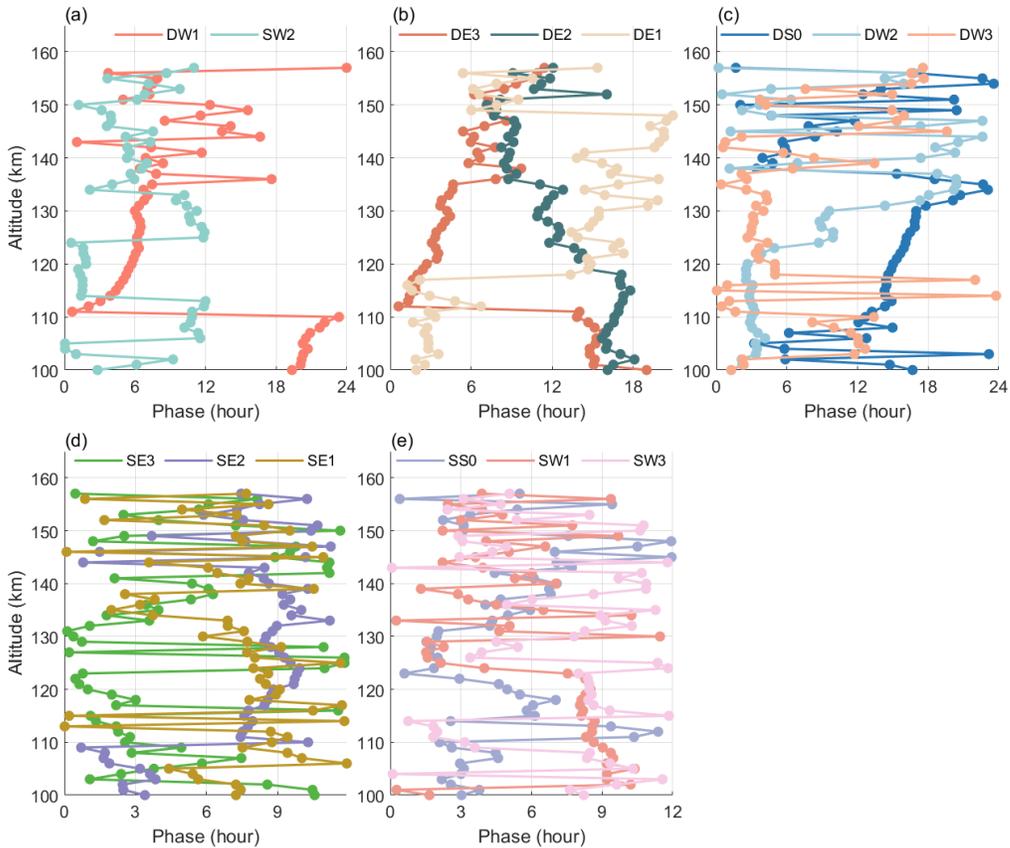


Figure S2. The averaged phase over all solar longitudes (L_s) spans for (a) DW1 and SW2; (b) DE3, DE2, and DE1; (c) DS0, DW2, DW3; (d) SE3, SE2, SE1; (e) SS0, SW1, SW3 in the tropical region (30°N - 30°S) from 100 km to 160 km, based on data from MAVEN/IUVS.