

# **Observed dawn and twilight surface pressure fluctuation in the Martian tropics and possible relationships with the atmospheric tides**

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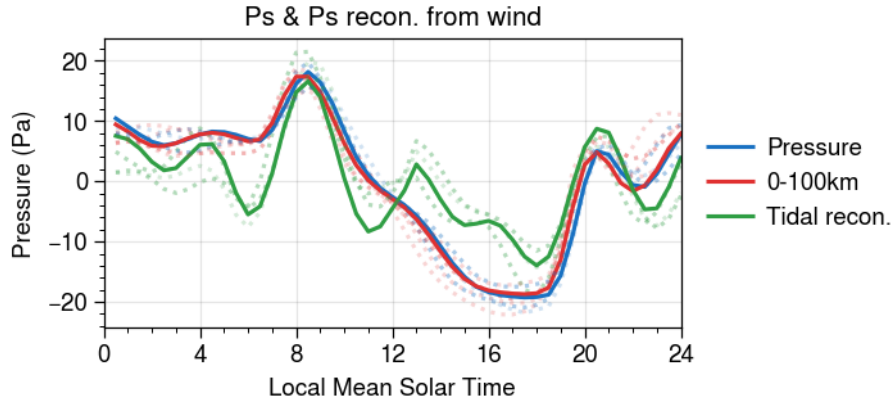
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**Figure S1.** Same as Figure 6a, but in Insight sols ranging from 75-140. The blue line is the demeaned surface pressure in 10 sols mean, the solid blue line is in the sol 125-135, which is same as Figure 2 in the paper, the dotted blue line is the demeaned surface pressure in other sols; the red lines are same as the blue lines but show the surface pressure reconstruction from 0-100 km horizontal winds; the green line are same as the red lines but show the surface pressure reconstructed from the tidal wind, whose components are similar with the paper. As we can see, both the reconstruction from the original winds and the tidal winds agree with the DTPs in the present time and relative amplitude in the sols near equinox.