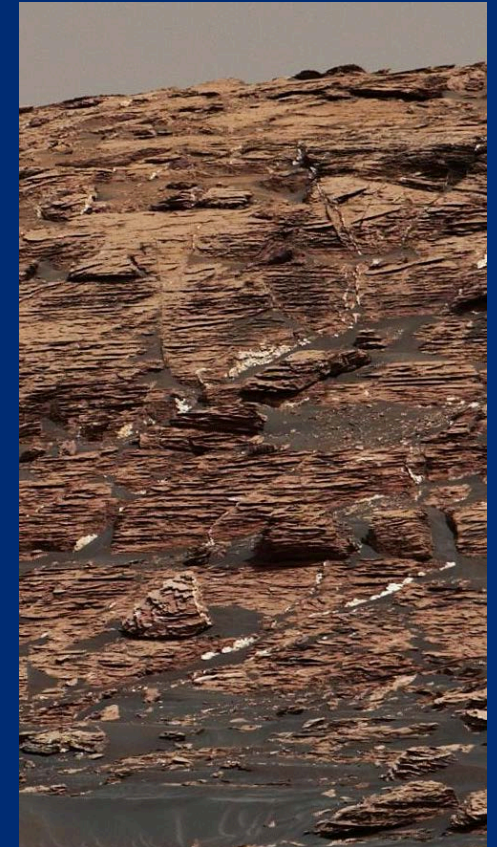
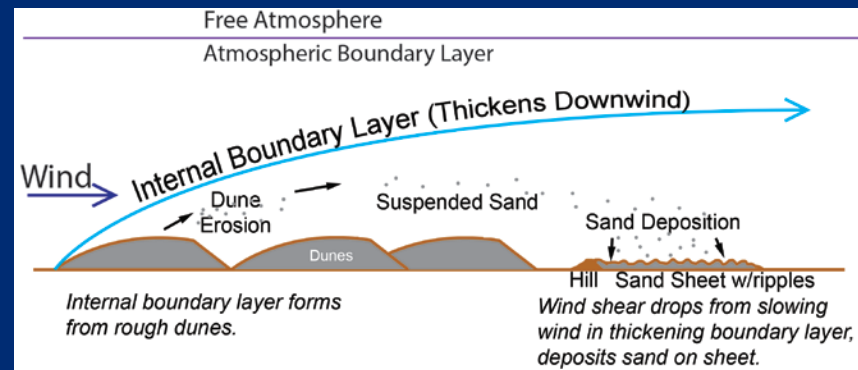
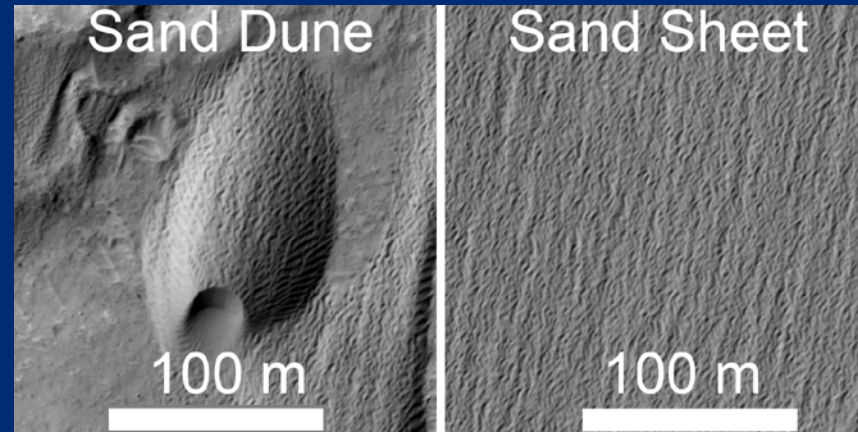


Mars: Destroyer of Sand Dunes

- Measurements from NASA's HiRISE camera show the dunes and the sheets to actively migrate downwind (*top left image*).
- Modeled winds on Mars are strong enough to erode sand from the brink of sand dunes, carrying the sand downwind and forming non-descript sand sheets (*bottom left schematic*). This sand source-to-sink relationship is the opposite of what occurs on Earth, likely due to Earth's abundance of water and plant life and Mars' sparser sand supply.
- By understanding this modern-day process, geologists can better interpret Martian sand stones studied from the rovers (*far right image*), which are a record of past climates and thus habitability.



Mars' current climate may be eroding away the most upwind sand dunes