Soil Science in Space: Thinking Way Outside the Box

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Mars is a perfect laboratory to reconsider the future of pedology across the universe. By investigating the soils and geology through our Curiosity and further endeavors, we find ourselves able to learn about the past, present, and possibly the future. Imagine what we could learn about the early Earth if we could have explored it without vegetation and clouds in the way. The tools and techniques that are used to probe the Martian soil can teach us about exploring the soils on Earth. Although many may feel that soil science has learned all that it can about the soils on Earth, we know differently. Deciding what the most important things to know about Martian soils can help us focus on the fundamentals of soil science on Earth. Our soil science knowledge and experience on Earth can help us learn more about the angry red planet. Why is it so angry with so many fascinating secrets it can tell?