

Thursday, March 24, 2016
RECURRING SLOPE LINEAE ON MARS
 1:30 p.m. Waterway Ballroom 6

[R554]

Chairs: Cecilia Leung
 Vincent Chevrier

- 1:30 p.m. Dundas C. M. * McEwen A. S. Milazzo M. P.
[How Wet is Recent Mars? Insights from Gullies and RSL](#) [#2327]
 CO₂ may cause martian gully formation. RSL more strongly resemble aqueous features, but processes with little water are possible; recent Mars may be nearly dry.
- 1:45 p.m. Chevrier V. F. * Melchiorri R.
[Global Distribution of Aqueous Brines on Mars: Implications for RSLs and Special Regions](#) [#2843]
 This paper presents new results on the stability and formation of liquid brines on the surface of Mars, providing constraints on the formation of RSLs.
- 2:00 p.m. Hibbitts C. A. Mushkin A. * Gillespie A. Irvin B. Wing B.
[Investigating the Origin of Mars Recurring Slope Line Through Laboratory Experiments Under a Relevant Environment](#) [#2902]
 If the origin of Mars RSL is due to water, they may be a remnant physical expression of very recently lost water and are not evidence of actual wetness.
- 2:15 p.m. Stillman D. E. * Michaels T. I. Grimm R. E. Hanley J.
[Seasonality of Valles Marineris Recurring Slope Lineae \(RSL\) Suggests Multiple Water Sources](#) [#2584]
 VM RSL are widespread. The majority of VM RSL have the same seasonality, but Juventae RSL are different and likely less briny.
- 2:30 p.m. Leung C. W.S. * Rafkin S. C. R. Stillman D. E. McEwen A. S.
[Fogs and Clouds are a Potential Indicator of a Local Water Source in Valles Marineris](#) [#2878]
 Warm Canyon Bottom / Implies Local Water Source / Controls RSL?
- 2:45 p.m. Wilson J. T. * Eke V. R. Massey R. J. Elphic R. C. Feldman W. C. et al.
[Recurring Slope Lineae on Mars are Not Fed by Subsurface Water](#) [#2813]
 An improved resolution MONS data set shows that sites containing recurring slope lineae cannot be distinguished from those without by using hydrogen abundance.
- 3:00 p.m. Amador E. S. * Mushkin A. Gillespie A.
[Spectral Characteristics of Dark Slope Streaks on Mars: A Global Survey with CRISM](#) [#2696]
 Dark slope streaks on Mars, dynamic on a year-decadal timescale, show spectral characteristics similar to RSL “dry,” or inactive, periods.