

- Hartmann, W.K., Thorsteinsson, T., Sigurdsson, F., 2003. Martian hillside gullies and Icelandic analogs. *Icarus* 162, 259–277.
- Head, J.W., Mustard, J.F., Kreslavsky, M.A., Milliken, R.E., Marchant, D.R., 2003. Recent ice ages on Mars. *Nature* 426, 797–802.
- Head, J.W., Marchant, D.R., Dickson, J., Levy, J., Morgan, G., 2007. Transient streams and gullies in the Antarctic Dry Valleys: Geological setting, processes and analogs to Mars, in Antarctica: A keystone in a changing world. In: Cooper, A.K., Raymond C.R., and the 10th ISAES editorial team (Eds.), *Online Proceedings of the 10th ISAES*, USGS Open-File Report 2007-1047, vol. 151, 4p.
- Head, J.W., Marchant, D.R., Kreslavsky, M.A., 2008. Formation of gullies on Mars: Link to recent climate history and insolation microenvironments implicate surface water flow origin. *Proc. Natl. Acad. Sci.* 105, 13258–13263. doi:10.1073/pnas.0803760105.
- Hecht, M.H., 2002. Metastability of liquid water on Mars. *Icarus* 156, 373–386.
- Heldmann, J.L., Mellon, M.T., 2004. Observations of martian gullies and constraints on potential formation mechanisms. *Icarus* 168, 285–304.
- Heldmann, J.L., Toon, O.B., Pollard, W.H., Mellon, M.T., Pitlick, J., McKay, C.P., Andersen, D.T., 2005. Formation of martian gullies by the action of liquid water flowing under current martian environmental conditions. *J. Geophys. Res.* 110, E05004, doi:10.1029/2004JE002261.
- Kieffer, H.H., Zent, A.P., 1992. Quasi-periodic climate change on Mars. In: Kieffer, H.H. (Ed.), *Mars*. University of Arizona Press, pp. 1180–1233.
- Kreslavsky, M.A., Head, J.W., Marchant, D.R., 2008. Periods of active permafrost layer formation during the geological history of Mars: Implications for circum-polar and mid-latitude surface processes. *Planet. Space Sci.* 56, 289–302. doi:10.1016/j.pss.2006.02.010.
- Laskar, J., Correia, A.C.M., Gastineau, M., Joutel, F., Levrard, B., Robutel, P., 2004. Long term evolution and chaotic diffusion of the insolation quantities of Mars. *Icarus* 170, 343–364.
- Levy, J.S., Head, J.W., Marchant, D.R., Dickson, J.L., Morgan, G.A., 2007. Gully surface and shallow subsurface structure in the South Fork of Wright Valley, Antarctic Dry Valleys: Implications for gully activity on Mars. *Lunar Planet. Sci.* 38, Abstract #1728.
- Levy, J.S., Head, J.W., Dickson, J.L., Fassett, C.I., Morgan, G.A., Schon, S.C., 2010. Identification of gully debris flow deposits in Protonilus Mensae, Mars: Characterization of a water-bearing, energetic gully-forming process. *Earth Planet. Sci. Lett.*, doi:10.1016/j.epsl.2009.08.002.
- Madeleine, J.-B., Forget, F., Head, J.W., Levrard, B., Montmessin, F., Millour, E., 2009. Amazonian northern mid-latitude glaciation on Mars: A proposed climate scenario. *Icarus* 203, 390–405. doi:10.1016/j.icarus.2009.04.037.
- Malin, M.C., Edgett, K.S., 2000a. Evidence for recent groundwater seepage and surface runoff on Mars. *Science* 288, 2330–2335.
- Malin, M.C., Edgett, K.S., 2000b. Sedimentary rocks of early Mars. *Science* 290, 1927–1937.
- Marchant, D.R., Head, J.W., 2007. Antarctic Dry Valleys: Microclimate zonation, variable geomorphic processes, and implications for assessing climate change on Mars. *Icarus* 192, 187–222.
- McEwen, A.S., and 32 colleagues, 2007. A closer look at water-related geologic activity on Mars. *Science* 317, 1706–1709.
- Milliken, R.E., Mustard, J.F., Goldsby, D.L., 2003. Viscous flow features on the surface of Mars: Observations from high-resolution Mars Orbiter camera (MOC) images. *J. Geophys. Res.* 108, 5057–5070. doi:10.1029/2002JE002005.
- Mischna, M.A., Richardson, M.I., Wilson, R.J., McCleese, D.J., 2003. On the orbital forcing of martian water and CO₂ cycles: A general circulation model study with simplified volatile schemes. *J. Geophys. Res.* 108 (E6), 5062. doi:10.1029/2003JE002051.
- Morgan, G.A., Head, J.W., Marchant, D.R., Dickson, J.L., Levy, J.S., 2008. Gully formation and evolution in the Antarctic Dry Valleys: Implications for Mars. Workshop on martian Gullies, Houston, TX. Abstract #1301.
- Nylen, T.H., Fountain, A.G., Doran, P.T., 2004. Climatology of katabatic winds in the McMurdo dry valleys, southern Victoria Land, Antarctica. *J. Geophys. Res.* 109, D03114, doi:10.1029/2003JD003937.
- Reiss, D., Gasselt, S., van Neukum, G., Jaumann, R., 2004. Absolute dune ages and implications for the time of formation of gullies in Nirgal Vallis, Mars. *J. Geophys. Res.* 109, E06007, doi:10.1029/2004JE002251.
- Reiss, D., Hiesinger, H., Hauber, E., Gwinner, K., 2009. Regional differences in gully occurrence on Mars: A comparison between the Hale and Bond craters. *Planet. Space Sci.* 57, 958–974. doi:10.1016/j.pss.2008.09.008.
- Schon, S.C., Head, J.W., Fassett, C., 2009. Unique chronostratigraphic marker in depositional fan stratigraphy on Mars: Evidence for ~1.25 Ma old gully activity and surficial meltwater origin. *Geology* 37. doi:10.1130/G25398A.25391.
- Schorghofer, N., Edgett, K.S., 2006. Seasonal surface frost at low latitudes on Mars. *Icarus* 180, 321–334.
- Schultz, P.H., Glicken, H., 1979. Impact crater and basin control of igneous processes on Mars. *J. Geophys. Res.* 84, 8033–8047.
- Spiga, A., Forget, F., 2009. A new model to simulate the martian mesoscale and microscale atmospheric circulation: Validation and first results. *J. Geophys. Res.* 114, E02009, doi:10.1029/2008JE003242.
- Williams, K.E., Toon, O.B., Heldmann, J.L., McKay, C., Mellon, M.T., 2008. Stability of mid-latitude snowpacks on Mars. *Icarus* 196, 565–577.
- Williams, K.E., Toon, O.B., Heldmann, J.L., Mellon, M.T., 2009. Ancient melting of mid-latitude snowpacks on Mars as a water source for gullies. *Icarus* 200, 218–225. doi:10.1016/j.icarus.2008.12.013.