

Peer Reviewed Publications

Michael, G.G., Walter, S.H.G., Kneissl, T., Zuschneid, W., **Gross, C.**, McGuire, P.C., Dumke, A., Schreiner, B., van Gasselt, S., Gwinner, K., Jaumann, R. (2016). Systematic processing of Mars Express HRSC panchromatic and colour image mosaics: Image equalisation using an external brightness reference. *Planetary and Space Science* 121; 18-26

Noel, A., Bishop, J.L., Al-Samir, M., **Gross, C.**, J. Flahaut, McGuire, P.C., Seelos, F., Weitz, C., Murchie, S. (2015). "Mineralogy, Morphology and Stratigraphy of the Light-Toned Interior Layered Deposits at Juventae Chasma". *Icarus*, doi:10.1016/j.icarus.2014.09.033

Cull, S., McGuire, P., **Gross, C.**, Meyers, J., Shmorhun, N. (2014). "A new type of jarosite deposit on Mars: Evidence for past glaciation in Valles Marineris?" *Geology*, Volume 42, no. 11, Pages 1-4

McGuire, P.C., Bonnici, A., Bruner, K.R., **Gross, C.**, Ormö, J., Smosna, R.A., Walter, S. and Wendt, L. (2014). "The Cyborg Astrobiologist: Matching of Prior Textures by Image Compression for Geological Mapping and Novelty Detection". *International Journal of Astrobiology* 13 (3): 191–202 (2014), doi:10.1017/S147355041300037

Dohm, J. M., Miyamoto, H., Ori, G. G., Fairén, A. G., Davila, A. F., Komatsu, G., Mahaney, W. C., Williams, J.-P., Joye, S. B., Di Achille, G., Oehler, D. Z., Marzo, G. A., Schulze Makuch, D., Acocella, V., Glamoclija, M., Pondrelli, M., Boston, P., Hart, K. M., Anderson, R. C., Baker, V. R., Fink, W., Kelleher, B. P., Furfaro, R., **Gross, C.**, Hare, T. M., Frazer, A. R., Ip, F., Allen, C. C. R., Kim, K. J., Maruyama, S., McGuire, P. C., Netoff, D., Parnell, J., Wendt, L., Wheelock, S. J., Steele, A., Hancock, R. G. V., Havics, R. A., Costa, P., and Krinsley, D. (2011). An inventory of potentially habitable environments on Mars: Geological and biological perspectives. *Analogs for Planetary Exploration: Geological Society of America Special Paper* 483, Pages 317–347, doi:10.1130/2011.2483 (21)

Kneissl, T., van Gasselt, S., Wendt, L., **Gross, C.** and Neukum, G. (2011). Layering and degradation of the Rupes Tenuis unit, Mars – a structural analysis south of Chasma Boreale. *Geological Society, London, Special Publications* 2011, v. 356, p. 257-279

Roush, T.L., Marzo, G.A., Fonti, S., Orofino, V., Blanco, A., **Gross, C.**, Wendt, L. (2011). Assessing Spectral Evidence of Aqueous Activity in Two Putative Martian Paleolakes. *Icarus*, Volume 214, Pages 240-245

Wendt, L., **Gross, C.**, Kneissl, T., Sowe, M., Combe, J.-P., LeDeit, L., McGuire, P.C., Neukum, G. (2011). Sulfates and iron oxides in Ophir Chasma, Mars, based on OMEGA and CRISM observations. *Icarus*, Volume 213, Pages 86-103

Davila, A., **Gross, C.**, Marzo, G.A., Fairén, A.G., Kneissl, T., McKay, C.P., Dohm, J.M. (2011). A large sedimentary basin in the Terra Sirenum region of the southern highlands of Mars. *Icarus*, Volume 212, Pages 579-589

Foing, B.H., Stoker, C., Zavaleta, J., Ehrenfreund, P., Thiel, C., Sarrazin, P., Blake, D., Page, J., Pletser, V., Hendrikse, J., Direito, S., Kotler, M., Martins, Z., Orzechowska, G., **Gross, C.**, Wendt, L., Clarke, J., Borst, A.M., Peters, S.T.M., Wilhelm, M.-B., Davies, G.R. and ILEWG EuroGeoMars 2009 Team. (2011). Field astrobiology research in Moon–Mars analogue environment: instruments and methods. *International Journal of Astrobiology*, Cambridge University Press, doi: 10.1017/S1473550411000036

Marzo, G.A., Davila, A.F., Tornabene, L.L., Dohm, J.M., Fairén, A.G., **Gross, C.**, Kneissl, T., Bishop, J.L., Roush, T.L. and McKay, C.P. (2010). Evidence for Hesperian impact-induced Hydrothermalism on Mars. *Icarus, Volume 208, Pages 667-683*

McGuire, P.C., **Gross, C.**, Wendt, L., Bonnici, A., Souza-Egipsy, V., Ormö, J., Díaz-Martínez, E., Foing, B.H., Bose, R., Walter, S., Oesker, M., Ontrup, J., Haschke, R. and Ritter, H. (2010). The Cyborg Astrobiologist: testing a novelty detection algorithm on two mobile exploration systems at Rivas Vaciamadrid in Spain and at the Mars Desert Research Station in Utah. *International Journal of Astrobiology, 9: 11-27 Cambridge University Press doi:10.1017/S1473550409990358*

Fairén, A. G., Chevrier, V., Abramov, O., Marzo, G. A., Gavin, P., Davila, A. F., Tornabene, L. L., Bishop, J. L., Roush, T. L., **Gross, C.**, Kneissl, T., Uceda, E., Dohm, J. M., Schulze-Makuch, D., Rodriguez, A., Amils, R., McKay, C. P. (2010). Phyllosilicates in Impact Craters on Mars: Pre- and Post-Impact Genesis. *PNAS – Proceedings of the National Academy of Sciences of the United States of America, Issue 2010-07-06*

Conference Abstracts

Gross, C., Poulet, F., Michalski, J., Horgan, B., Bishop, J.L. (2016). Mawrth Vallis – Proposed Landing Site for EXOMARS 2018/2020. *47th Lunar and Planetary Science Conference, Abstract # 1421*

Weitz, C.M., Bishop, J.L., Tornabene, L.L., Mest, S.C., Grant, J.A., **Gross, C.**, Rodriguez, J.A.P. (2016). Disrupted Hydrated Deposits in Southeastern Noctis Labyrinthus: Possible Displaced Subsurface Materials From Oudemans Crater? *47th Lunar and Planetary Science Conference, Abstract # 1610*

McGuire, P.C., Audouard, J., Dunker, **Gross, C.**, Kneissl, T., Michael, G., Ody, A., Poulet, F., Schreiner, B., van Gasselt, S., Walter, S.H.G., Wendt, L., Zuschneid, W. (2016). True- and False-Color HRSC+OMEGA Image Mosaics of Mars. *47th Lunar and Planetary Science Conference, Abstract # 1031*

Bishop, J.L., **Gross, C.**, Rampe, E.B., Wray, J.J., Parente, M., Horgan, B., Loizeau, D., Viviano-Beck, C.E., Clark, R.N., Seelos, F.P., Ehlmann, B.L., Murchie, S.L. (2016). Mineralogy of Layered Outcrops at Mawrth Vallis and Implications for Early Aqueous Geochemistry on Mars. *47th Lunar and Planetary Science Conference, Abstract # 1332*

Gross, C., Bishop, J. L., Maturilli, A., D'Amore, M., Helbert, J. (2015). A Hydrothermally Altered, Mn-incrusted Sediment as an Analogue for Martian Deposits? *AGU Fall Meeting, San Francisco, Calif., Abstract P31A-2039*

Horgan, B., Loizeau, D., Poulet, F., Bishop, J., Noe Dobrea, E. Z., Farrand, W., Michalski, J., **Gross, C.**, Kleinhenz, J., Linne, D. (2015). Habitable Noachian Environments and Abundant Resources in the Mawrth Vallis Exploration Zone. *First Landing Site/Exploration Zone Workshop for Human Missions to the Surface of Mars, 27-30 October 2015, Houston, Texas. LPI Contribution No. 1879, p.1009*

Bishop, J. L., **Gross, C.**, Parente, M., Wray, J., Horgan, B., Viviano-Beck, C., Seelos, F. (2015). The transition from neutral to acidic alteration at Mawrth Vallis as observed from the mineralogical record. *2015 GSA Annual Meeting, Baltimore, Maryland, 1-4 November, Abstract # 260648*

Bishop, J. L., **Gross, C.** (2015). Bentonite composition and stratigraphy at Mawrth Vallis, Mars. *Euroclay and The Clay Minerals Society 52nd Annual Meeting, Edinburgh, Scotland, 5-7 July, Abstract # 314*

Michael, G., Walter, S., McGuire, P., Kneissl, T., van Gasselt, S., **Gross, C.**, Schreiner, B., Zuschneid, W. (2015). Systematic Processing of Mars Express HRSC Image Mosaic Quadrangles. *European Geosciences Union General Assembly, Vienna; Geophysical Research Abstracts, Vol. 17, EGU2015-6956*

Gross, C., Carter, J., Tornabene, L. L., Sowe, M., Bishop, J. L. (2015). Stratified Phyllosilicate-bearing Deposits within Impact Craters in the Northern Plains of Mars. *46th Lunar and Planetary Science Conference, Abstract # 1817*

Bishop, J. L., **Gross, C.**, Wray, J. J., Horgan, B., Viviano-Beck, C. E., Seelos, F. P. (2015). Acid Alteration at Mawrth Vallis between the older Fe/Mg-rich Clays and the younger Al/Si-rich Clays. *46th Lunar and Planetary Science Conference, Abstract # 1455*

Michael, G., Walter, S., McGuire, P., Kneissl, T., van Gasselt, S., **Gross, C.**, Schreiner, B., Zuschneid, W. (2015). Systematic Processing of Mars Express HRSC Image Mosaic Quadrangles. *46th Lunar and Planetary Science Conference, Abstract # 2387*

McGuire, P.C., Walter, S.H.G., van Gasselt, S., Dumke, A., Dunker, T., **Gross, C.**, Wendt, L., Audouard, J., Ody A., Poulet, F. (2015). Color HRSC+OMEGA Image Mosaics of Mars. *46th Lunar and Planetary Science Conference, Abstract # 1404*

Gross, C., Carter, J., Tornabene, L. L., Sowe, M., Bishop, J. L. (2014). Excavation of Stratified Phyllosilicate-Bearing Rocks in the Northern Plains of Mars. *AGU Fall Meeting, San Francisco, Calif., Abstract P41A-3884*

Bishop, J. L., Flahaut, J., Weitz, C. M., **Gross, C.**, Parente, Horgan, B. H. N. (2014). Acidic Alteration Environments on Mars and Implications for Habitability. *AGU Fall Meeting, San Francisco, Calif., Abstract P41A-3885*

Bishop, J. L., Horgan, B., Wray, J. J., Loizeau, D., **Gross, C.**, McGuire, P. C., Parente, M., Seelos, F., Viviano-Beck, C. and Murchie, S. L. (2014). Composition and Stratigraphy of Acidic Components at Mawrth Vallis, Mars. *European Planetary Science Congress (EPSC), Cascais, Portugal, 7-12 September, Abstract # 694*

McGuire, P. C., Walter, S. H. G., van Gasselt, S., Dumke, A., Dunker, T., **Gross, C.**, Michael, G., Wendt, L., Audouard, J., Ody, A. and Poulet, F. (2014). Global Hybrid HRSC+OMEGA Image Mosaics of Mars. *European Planetary Science Congress (EPSC), Cascais, Portugal, 7-12 September, Abstract # 414*

Gross, C., Carter, J., Sowe, M., Bishop, J. L. (2014). Excavation of Altered Sediments in the Northern Plains of Mars. *European Planetary Science Congress (EPSC), Cascais, Portugal, 7-12 September, Abstract # 365*

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McGuire, P. C., Walter, S. H. G., van Gasselt, S., Dumke, A., Dunker, T., **Gross, C.**, Michael, G., Wendt, L., Audouard, J., Ody, A. and Poulet, F. (2014). Global HRSC Image Mosaics of Mars:

Dodging for High-Pass Filtering, Combined with Low-Pass-Filtered OMEGA Mosaics. *Eighth International Conference on Mars, July 14-18 2014, Pasadena, California. Abstract # 1118*

Gross, C., Noel, A., Bishop, J.L., Al-Samir, M., J. Flahaut, McGuire, P.C., Seelos, F., Weitz, C., Murchie, S. (2014). Investigating the Mineralogy, Morphology and Stratigraphy of Mound B in Juventae Chasma, Mars using Multiple Datasets. *45th Lunar and Planetary Science Conference, Abstract # 1918*

McGuire, P.C., Walter, S.H.G., van Gasselt, S., Dumke, A., **Gross, C.**, Michael, G., Wendt, L. (2014). Towards automated/global color mosaicking of MEx/HRSC images of Mars. *45th Lunar and Planetary Science Conference, Abstract # 1899*

Cull, S., McGuire, P.C., **Gross, C.**, Dumke, A. (2013). Stratigraphic mapping of hydrated phases in Western Ius Chasma, Mars. *AGU Fall Meeting, San Francisco, Calif., Abstract P23F-1844*

Gross, C., Sowe, M. (2013). Soffen Crater in the Terra Cimmeria Region of Mars. *44th Lunar and Planetary Science Conference, Abstract # 2470*

Gross, C., Airo, A., Al-Samir, M., Sowe, M., Nabhan, S., Bishop, J. L., van Gasselt, S. (2013). Martian Crater-Lake Environments and their Potential Range of Biological Deposits. *44th Lunar and Planetary Science Conference, Abstract # 2452*

McGuire, P. C., Arvidson, R. E., Bishop, J. L., Brown, A. J., Cull, S., Green, R. O., **Gross, C.**, Hash, C. D., Hauber, E., Humm, D. C., Jaumann, R., LeDeit, L., Malaret, E. R., Martin, T. Z., Marzo, G. A., Morgan, M. F., Murchie, S. L., Mustard, J. F., Neukum, G., Parente, M., Platz, T., Roush, T. L., Seelos, F. P., Seelos, K. D., Smith, M. D., Sowe, M., Tirsch, D., Walter, S., Wendt, L., Wiseman, S. M., Wolff, M. J. (2013). Mapping Minerals on Mars with CRISM: Atmospheric and Photometric Correction for MRDR Map Tiles, Version 2, and Comparison to OMEGA. *44th Lunar and Planetary Science Conference, Abstract # 1581*

Al-Samir, M., Bishop, J. L., Flahaut, J., Kneissl, T., van Gasselt, S., **Gross, C.**, Jaumann, R. (2012). Formation and evolution of ILDs in Juventae Chasma and implications from fractures at mound B. *AGU Fall Meeting, San Francisco, Calif., Abstract # P11E-1864*

Sowe, M., **Gross, C.**, Walter, S., Bishop, J. L., Ramsey, M., Al-Samir, M. (2012). The Peruvian Pisco Formation as analogy for layered sulphate deposits on Mars. *3rd Conference on Terrestrial Mars Analogues, 25-27 October 2012, Marrakech, Morocco*

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Gross, C., Wendt, L., Combe, J.-Ph., Jodlowski, P., Marzo, G. A., Roush, T. L., McCord, T., Halbach, P., Neukum, G. (2012). Investigating the Phyllosilicate Bearing Micoud Crater in the Northern Plains of Mars. *43rd Lunar and Planetary Science Conference, Abstract # 1795*

Al-Samir, M., van Berk, W., Kneissl, T., van Gasselt, S., **Gross, C.**, Wendt, L., Jaumann, R. (2012). A Model Scenario for Kieserite-Dominated Evaporites in Juventae Chasma, Mars. *43rd Lunar and Planetary Science Conference, Abstract # 2453*

Wendt, L., **C. Gross**, T. Kneissl, M. Sowe, J.-Ph. Combe, L. Le Deit, P. C. McGuire and G. Neukum (2011). Sulfates and Iron Oxides in Ophir Chasma, Mars, *GRSG and OGEO workshop at ESA/ESRIN, Frascati, Italy, from the 7th to the 9th of December 2011*

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Roush, T.L., Marzo, G.A., Fonti, S., Orofino, V., Blanco, A., **Gross, C.**, Wendt, L. (2011). Assessing Spectral Evidence of Aqueous Activity in Two Putative Martian Paleolakes. *42nd Lunar and Planetary Science Conference, Abstract # 1181*

Bonnici, A., **Gross, C.**, McGuire, P.C., Ormö, J., Walter, S., Wendt, L. (2010). The Cyborg Astrobiologist: Compressing Images for the Matching of Prior Textures and for the Detection of Novel Textures. *European Planetary Science Congress 2010 Vol. 5, EPSC2010-162*

Boche-Sauvan, L., Foing, B. H., Stoker, C., Ehrenfreund, P., Wendt, L., **Gross, C.**, Thiel, C., Peters, S., Borst, A., Zavaleta, J., Sarrazin, P., Blake, D., Page, J., Pletser, V., Monaghan, E., Mahapatra, P., Noroozi, A., Giannopoulos, P., Calzada, A., Walker, R., Zegers, T., Exogeolab, ILEWG Exohab Team, Eurogeomars Team (2010). ILEWG ExoHab & EuroGeo-Mars Campaigns: Habitability & Human Operations. *41st Lunar and Planetary Science Conference, Abstract # 1759*

Borst, A., Peters, S., Foing, B. H., Stoker, C., Wendt, L., **Gross, C.**, Zavaleta, J., Sarrazin, P., Blake, D., Ehrenfreund, P., Boche-Sauvan, L., Page, J., McKay, C., Batenburg, P., Drijkoningen, G., Slob, E., Poulakis, P., Visentin, G., Noroozi, A., Gill, E., Guglielmi, M., Freire, M., Walker, R., Sabbatini, M., Pletser, V., Monaghan, E., Ernst, R., Oosthoek, J., Mahapatra, P., Wills, D., Thiel, C., Lebreton, J. P., Zegers, T., Chicarro, A., Koschny, D., Vago, J., Svedhem, H., Davies, G., Westenberg, A., Edwards, J., Exogeolab Team, Eurogeomars Team (2010). Geochemical Results from EuroGeoMars MDRS Utah 2009 Campaign. *41st Lunar and Planetary Science Conference, Abstract # 2744*

Ehrenfreund, P., Foing, B. H., Stoker, C., Zavaleta, J., Quinn, R., Blake, D., Martins, Z., Sephton, M., Becker, L., Orzechowska, G., van Sluis, C., Boche-Sauvan, L., **Gross, C.**, Thiel, C., Wendt, L., Sarrazin, P., Mahapatra, P., Direito, S., Roling, W., Eurogeo-mars MDRS Team (2010). EuroGeoMars Field Campaign: Sample Analysis of Organic Matter and Minerals. *41st Lunar and Planetary Science Conference, Abstract # 1723*

Hendrikse, J., Foing, B. H., Monaghan, E., Stoker, C., Zavaleta, J., Selch, F., Ehrenfreund, P., Wendt, L., **Gross, C.**, Thiel, C., Peters, S., Borst, A., Sarrazin, P., Blake, D., Boche-Sauvan, L., Page, J., Pletser, V., Mahapatra, P., Wills, D., McKay, C., Davies, G., van Westrenen, W., Batenburg, P., Drijkoningen, G., Slob, E., Poulakis, P., Visentin, G., Noroozi, A., Gill, E., Guglielmi, M., Freire, M., Walker, R., Exogeolab Team, Eurogeomars Team (2010). Highlights from Remote Controlled Rover for EuroGeoMars MDRS Campaign. *41st Lunar and Planetary Science Conference, Abstract # 2435*

Fairen, A. G., Chevrier, V., Abramov, O., Marzo, G. A., Gavin, P., Davila, A. F., **Gross, C.**, Kneissl, T., Roush, T. L., Bishop, J. L., Tornabene, L. L., Dohm, J. M., Rodriguez, J. A. P., Schulze-Makuch, D., McKay, C. P. (2010). Toro Crater: First Evidence for Hesperian Phyllosilicates on Mars. *41st Lunar and Planetary Science Conference, Abstract # 2683*

Wendt, L.; **Gross, C.**; Kneissl, T.; Sowe, M.; Combe, J.-P.; Le Deit, L.; McGuire, P. C.; Neukum, G. (2010). Sulfates and Iron Oxides in Ophir Chasma, Mars. *41st Lunar and Planetary Science Conference, Abstract # 1699*

McGuire, P.C., Arvidson, R.E., Bishop, J.L., Brown, A.J., Cull, S., Green, R.O., **Gross, C.**, Hash, C.D., Hauber, E., Humm, D.C., Jaumann, R., Le Deit, L., Malaret, E.R., Martin, T.Z., Marzo, G.A., Morgan, M.F., Murchie, S.L., Mustard, J.F., Neukum, G., Parente, M., Platz, T., Roush, T.L., Seelos, F.P., Seelos, K.D., Smith, M.D., SOWE, M., Tirsch, D., Walter, S. Wendt, L., Wiseman, S.M., Wolff, M.J. (2010). Mapping Minerals on Mars with CRISM: Atmospheric, Thermal, and Photometric Correction for MRDR Map Tiles and Comparison to OMEGA. *EPSC 5, Rome, Italy, September 20-25, 2010, Abstract #163*

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Gross, C., Wendt, L., McGuire P.C. (2009). The Cyborg Astrobiologist: Teaching Computers to Find Uncommon or Novel Areas of Geological Scenery in Real-time. Test and Results from Crew

77,MDRS 2009. European Space Agency - *ExoGeoLab-ExoHab-Eurogeomars Workshop ESTEC, Noordwijk, The Netherlands, 2-3 April 2009*

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