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### SCIENCE PUBLICATIONS

#### BOOKS

*The Future of Solar System Exploration, 2003-2013 - Community Contributions to the NRC Solar System Exploration Decadal Survey* (M.V. Sykes, Ed.). ASP Conference Proceedings, Vol. 272. San Francisco, Astronomical Society of the Pacific, 2002. 433 pgs.

#### PAPERS

- McFadden, L.A., D.R. Skillman, N. Memarsadeghi, J.-Y. Li, S.P. Joy, C.A. Polanskey, M.D. Rayman, M.V. Sykes, P. Tricarico, E. Palmer, D.P. O'Brien, S. Mottola, U. Carsenty, M. Mutchler, B. McLean, S.E. Schröder, N. Mastrodemos, C. Schiff, H.U. Keller, A. Nathues, P. Gutiérrez-Marques, C.A. Raymond, C.T. Russell (2015). Vesta's missing moons: Comprehensive search for natural satellites of Vesta by the Dawn spacecraft. *Icarus* **257**, 207-216.
- Vincent, J.-B., P. Schenk, A. Nathues, H. Sierks, M. Hoffmann, R.W. Gaskell, S. Marchi, D.P. O'Brien, M. Sykes, C.T. Russell, M. Fulchignoni, H.U. Kellerg, C. Raymond, E. Palmer, F. Preusker (2014). Crater depth-to-diameter distribution and surface properties of (4) Vesta. *Planet. Sp. Sci.* **103**, 57-65.
- Tricarico, P., N.H. Samarasinha, M.V. Sykes, J.-Y. Li, T.L. Farnham, M.S.P. Kelley, D. Farnocchia, R. Stevenson, J.M. Bauer and R.E. Lock (2014). Delivery of dust grains from Comet C/2013 A1 (Siding Spring) to Mars. *Astrophys. J. Lett.* **787**, L35-L39.
- Buratti, B.J., P.A. Dalba, M.D. Hicks, V. Reddy, M.V. Sykes, T.B. McCord, D.P. O'Brien, C.M. Pieters, T.H. Prettyman, L.A. McFadden, A. Nathues, L. Le Corre, S. Marchi, C. Raymond, and C. Russell (2013). Vesta, vestoids, and the HED meteorites: Interconnections and differences based on Dawn Framing Camera observations. *J. Geophys. Res. Planets* **118**, 1991-2003.
- Noble, R.J. and M.V. Sykes (2013). Small body exploration technologies as precursors for interstellar robotics. *J. Brit. Interpl. Soc.* **66**, 15-24.
- Jaumann, R., D.A. Williams, D.L. Buczkowski, R.A. Yingst, F. Preusker, H. Hiesinger, N. Schmedemann, T. Kneissl, J.B. Vincent, D.T. Blewett, B.J. Buratti, U. Carsenty, B.W. Denevi, M.C. De Sanctis, W.B. Garry, H.U. Keller, E. Kersten, K. Krohn, J.-Y. Li, S. Marchi, K.D. Matz, T.B. McCord, H.Y. McSween, S.C. Mest, D.W. Mittlefehldt, S. Mottola, A. Nathues, G. Neukum, D.P. O'Brien, C.M. Pieters, T.H. Prettyman, C.A. Raymond, T. Roatsch, C.T. Russell, P. Schenk, B.E. Schmidt, F. Scholten, K. Stephan, M.V. Sykes, P. Tricarico, R. Wagner, M.T. Zuber, H. Sierks (2012). Vesta's shape and morphology. *Science* **336**, 687-690.
- Russell, C.T., C.A. Raymond, A. Coradini, H.Y. McSween, M.T. Zuber, A. Nathues, M.C. De Sanctis, R. Jaumann, A.S. Konopliv, F. Preusker, S.W. Asmar, R.S. Park, R. Gaskell, H.U. Keller, S. Mottola, T. Roatsch, J.E.C. Scully, D.E. Smith, P. Tricarico, M.J. Toplis, U.R. Christensen, W.C. Feldman, D.J. Lawrence, T.J. McCoy, T.H. Prettyman, R.C. Reedy, M.V. Sykes, T.N. Titus (2012). Dawn at Vesta: Testing the protoplanetary paradigm. *Science* **336**, 684-686.
- O'Brien, D.P., M.V. Sykes (2011). The origin and evolution of the asteroid belt  
- Implications for Vesta and Ceres. *Sp. Science Revs.* **163**, 41-61.
- Chamberlain, M.A., M.V. Sykes, E.F. Tedesco (2011). Mid-infrared lightcurve of Vesta. *Icarus* **215**, 57-61.
- Bieryla, A., J.W. Parker, E.F. Young, L.A. McFadden, C.T. Russell, S.A. Stern, M.V. Sykes, B. Gladman (2011). A search for satellites around Ceres. *Astron. J.* **141**, 197-199.
- Tricarico, P. and M.V. Sykes (2010). The dynamical environment of Dawn at Vesta. *Planet. Sp. Sci.* **58**, 1516-1525.
- Li, J.-Y., L.A. McFadden, P.C. Thomas, M.J. Mutchler, J.W. Parker, E.F. Young, C.T. Russell, M.V. Sykes, B.E. Schmidt (2010). Photometric mapping of Asteroid (4) Vesta's southern hemisphere with Hubble Space Telescope. *Icarus* **208**, 238-251.

- Agarwal, J., M. Mueller, W.T. Reach, M.V. Sykes, H. Boehnhardt, E. Gruen (2010). The dust trail of Comet 67P/Churyumov-Gerasimenko between 2004 and 2006. *Icarus* **207**, 992-1012.
- Reach, W.T., J. Vaubaillon, M.S. Kelley, C.M. Lisse, and M.V. Sykes (2009). Distribution and properties of fragments and debris from the split Comet 73P/Schwassmann-Wachmann 3 as revealed by Spitzer Space Telescope. *Icarus* **203**, 571-588.
- Chamberlain, M.A., A.J. Lovell, M.V. Sykes (2009). Submillimeter photometry and lightcurves of Ceres and other large asteroids. *Icarus* **202**, 487-501.
- Sykes, M.V. (2008). The planet debate continues. *Science* **319**, 1765.
- Nesvorny, D., W.F. Bottke, D. Vokrouhlicky, M.V. Sykes, D. Lien, and J. Stansberry (2008). Origin of the near-ecliptic circumsolar dust band. *Astrophys. J.* **679**, L142-L146.
- Chamberlain, M.A., A.J. Lovell, and M.V. Sykes (2007). Submillimeter lightcurves of Vesta. *Icarus* **192**, 448-459.
- Russell, C.T., F. Capaccioni, A. Coradini, M.C. De Sanctis, W.C. Feldman, R. Jaumann, H.U. Keller, T.B. McCord, L.A. McFadden, S. Mottola, C.M. Pieters, T.H. Prettyman, C.A. Raymond, M.V. Sykes, D.E. Smith and M.T. Zuber (2007). Dawn mission to Vesta and Ceres. *Earth, Moon, Planets* **101**, 65-91.
- Reach, W.T., M.S. Kelley, and M.V. Sykes (2007). A survey of debris trails from short-period comets. *Icarus* **191**, 298-322.
- Lisse, C.M., M.V. Sykes, D. Trilling, J. Emery, Y. Fernandez, H.B. Hammel, B. Bhattacharya, E. Ryan, and J. Stansberry (2007). Planetary science goals for the Spitzer Warm Era. In *The Science Opportunities of the Warm Spitzer Mission Workshop* (L.J. Storrie-Lombardi and N.A. Silbermann, Eds). AIP Conf. Series 943, 184-212.
- Lynch, D.K., R.W. Russell, R.J. Rudy, S. Mazuk, C.C. Venturini, H.B. Hammel, M.V. Sykes, R.C. Puetter, and P.R. Brad (2007). Infrared Spectra of Deimos (1-13 microns) and Phobos (3-13 microns). *Astron. J.* **134**, 1459-1463.
- Chamberlain, M.A., M.V. Sykes, and G.A. Esquerdo (2007). Ceres lightcurve analysis - Period determination. *Icarus* **188**, 451-456.
- Russell, C.T., M.A. Barucci, R.P. Binzel, M.T. Capria, U. Christensen, A. Coradini, M.C. de Sanctis, W.C. Feldman, R. Jaumann, H.U. Keller, A.S. Konopliv, T.B. McCord, L.A. McFadden, K.D. McKeegan, H.Y. McSween, S. Mottola, A. Nathues, G. Neukum, C.M. Pieters, T.H. Prettyman, C.A. Raymond, H. Sierks, D.E. Smith, T. Spohn, M.V. Sykes, F. Vilas, and M.T. Zuber (2007). Exploring the asteroid belt with ion propulsion: Dawn mission history, status and plans. *Adv. Sp. Res.* **40**, 193-201.
- Nesvorny, D., M. Sykes, D.J. Lien, J. Stansberry, W.T. Reach, D. Vokrouhlicky, W.F. Bottke, D.D. Durda, S. Jayaraman, and R.G. Walker (2006). Candidates for asteroid dust trails. *Astron. J.* **132**, 582-595.
- Li, J-Y, L.A. McFadden, J.W. Parker, E.F. Young, S.A. Stern, P.C. Thomas, C.T. Russell, and M.V. Sykes (2006). Photometric analysis of 1 Ceres and surface mapping from HST observations. *Icarus* **182**, 143-160.
- Nesvorny D., , D. Vokrouhlick, W.F. Bottke, and M. Sykes (2006). Physical properties of asteroid dust bands and their sources. *Icarus* **181**, 107-144.
- Rivkin, A.S., L.A. McFadden, R.P. Binzel, and M. Sykes (2006). Rotationally-resolved spectroscopy of Vesta I: 2-4 micron region. *Icarus* **180**, 464-472.
- Russell, C.T., F. Capaccioni, A. Coradini, U. Christensen, M.C. de Sanctis, W.C. Feldman, R. Jaumann, H.U. Keller, A. Konopliv, T.B. McCord, L.A. McFadden, H.Y. McSween, S. Mottola, G. Neukum, C.M. Pieters, T.H. Prettyman, C.A. Raymond, D.E. Smith, M.V. Sykes, B. Williams, and M.T. Zuber (2006). Dawn Discovery mission to Vesta and Ceres: Present status. *Adv. Sp. Res.* **38**, 2043-2048.
- Parker, J.W., L.A. McFadden, C.T. Russell, S.A. Stern, M.V. Sykes, P.C. Thomas, and E.F. Young (2006). Ceres: High-resolution imaging with HST and the determination of physical properties. *Adv. Sp. Res.* **38**, 2039-2042.
- Thomas, P.C., J.W. Parker, L.A. McFadden, C.T. Russell, S.A. Stern, M.V. Sykes and E.F. Young (2005). Differentiation of the asteroid Ceres as revealed by its shape. *Nature* **437**, 224-226.
- Sykes, M.V., D. Tarico and R. Early (2005). Archiving lightcurve data in the NASA Planetary Data System (PDS). *Minor Plan. Bull.* **32**, 11.
- Russell, C.T., A. Coradini, U. Christensen, M.C. de Sanctis, W.C. Feldman, R. Jaumann, U. Keller, A.S. Konopliv, T.B. McCord, L.A. McFadden, H.Y. McSween, S. Mottola, G. Neukum, C.M. Pieters, T.H. Prettyman, C.A. Raymond, D.E. Smith, M.V. Sykes, B.G. Williams, J. Wise and M.T. Zuber (2004). Dawn: A journey in space and time. *Planet. Sp. Sci.* **52**, 465-489.
- Sykes, M.V., E. Grün, W.T. Reach, and P. Jenniskens (2004). The Interplanetary Dust Complex and

- comets. In *Comets II* (M. Festou, H. Weaver, and U. Keller, Eds.), Univ. of Arizona Press, pp. 677-693.
- Sykes, M.V., R.M. Cutri, J.M. Fowler, B. Nelson, D.J. Tholen, M.F. Skrutskie, and S. Price (2002). 2MASS observations of the solar system. In *Proceedings of the ACM 2002 Conference* (B. Warmbein, Ed.), ESA SP-500, pp. 481-484.
- Russell, C.T., A. Coradini, W.C. Feldman, R. Jaumann, A.S. Konopliv, T.B. McCord, L.A. McFadden, H.Y. McSween, S. Mottola, G. Neukum, C.M. Pieters, C.A. Raymond, D.E. Smith, M.V. Sykes, B.G. Williams, and M.T. Zuber (2002). Dawn: A journey to the beginning of the solar system. In *Proceedings of the ACM 2002 Conference* (B. Warmbein, Ed.), ESA SP-500, pp. 63-66.
- Gruen, E., P.G. Brown, A.L. Graps, J.M. Hahn, D.P. Hamilton, W.M. Harris, M. Horanyi, D.L. Huestis, A. Krivov, M.J. Kuchner, A.-C. Levasseur-Regourd, D.J. Lien, J.-C. Liou, C.M. Lisse, D.D. Meisel, W.T. Reach, M.L. Sitko, T.P. Snow, R. Srama, J.A. Stansberry, M.V. Sykes, H. Yano, and M.E. Zolensky (2002). Dust astronomy: New venues in interplanetary and interstellar dust research. In *The Future of Solar System Exploration, 2003-2013 - Community Contributions to the NRC Solar System Exploration Decadal Survey* (M.V. Sykes, Ed.). ASP Conf. Proc., Vol. 272. San Francisco, pp. 283-296.
- Sykes, M.V., E. Asphaug, J.F. Bell, R.P. Binzel, W. Bottke, S.J. Bus, A. Cellino, P. Clark, D.R. Davis, M.C. De Sanctis, D.D. Durda, J. Emery, R.A. Fevig, U. Fink, J. Granahan, A.W. Harris, W.K. Hartmann, R. Jedicke, M. Kelley, S.M. Larson, D.J. Lien, C. Magri, S.J. Ostro, K.L. Reed, A.S. Rivkin, D.W.G. Sears, A. Storrs, D.J. Tholen, R. Walker, R. Whiteley, and H. Yano (2002). Exploring main belt asteroids. In *The Future of Solar System Exploration, 2003-2013* (M. Sykes, Ed.), pp. 159-176. Astron. Soc. Pacific Conf. Series Vol. 272.
- Jones, T.D., D.R. Davis, D.D. Durda, R. Farquhar, L. Gefert, K. Hack, W.K. Hartmann, R. Jedicke, J.S. Lewis, S. Love, M.V. Sykes, and F. Vilas (2002). The next giant leap: Human exploration and utilization of NEOs. In *The Future of Solar System Exploration, 2003-2013 - Community Contributions to the NRC Solar System Exploration Decadal Survey* (M.V. Sykes, Ed.). ASP Conf. Proc., Vol. 272. San Francisco, pp. 141-154.
- Sykes, M. and F. Vilas (2001). Closing in on HED meteorite sources. *Earth Planets Space* **53**, 1077-1083.
- Gruen, E., M.S. Hanner, S.B. Peschke, T. Mueller, H. Boehnhardt, T.Y. Brooke, H. Campins, J. Crovisier, C. Delahodde, I. Heinrichsen, H.U. Keller, R. F. Knacke, H. Krueger, P. Lamy, Ch. Leinert, D. Lemke, C. M. Lisse, M. Mueller, D.J. Osip, M. Solc, M. Stickel, M. Sykes, V. Vanysek, and J. Zarnecki (2001). Broadband infrared photometry of Comet Hale-Bopp with ISOPHOT. *Astron. & Astrophys.* **377**, 1098-1118.
- Reach, W.T., M.V. Sykes, D. Lien, and J.K. Davies (2000). The formation of Encke meteoroids and dust trail. *Icarus* **148**, 80-94.
- Sykes, M.V., R.M. Cutri, J.W. Fowler, D.J. Tholen, M.F. Skrutskie, S. Price, and E.F. Tedesco (2000). The 2MASS asteroid and comet survey. *Icarus* **145**, 161-175.
- Sykes, M.V., B. Nelson, R.M. Cutri, D.J. Kirkpatrick, R. Hurt, and M. Skrutskie (2000). Near-infrared observations of the outer Jovian satellites. *Icarus* **143**, 371-375.
- Doressoundiram, A., P.R. Weissman, M. Fulchignoni, M.A. Barucci, A. Le Bras, F. Colas, J. Lecacheux, M. Birlan, M. Lazzarin, S. Fornasier, E. Dotto, C. Barbieri, M.V. Sykes, S. Larson, and C. Hergenrother (1999). 4979 Otawara: Flyby target of the Rosetta mission. *Astron. Astrophys.* **352**, 697-702.
- Sykes, M. (1999). IRAS survey-mode observations of Pluto-Charon. *Icarus* **142**, 155-159.
- Gruen, E., S.B. Peschke, M. Stickel, T.G. Muller, H. Kruger, H. Boehnhardt, T.Y. Brooke, H. Campins, J. Crovisier, M.S. Hanner, I. Heinrichsen, H. Keller, R. Knacke, P. Lamy, C. Leinert, D. Lemke, C.M. Lisse, M. Muller, D.J. Osip, M. Solc, M. Sykes, V. Vanysek, and J. Zarnecki (1999). ISOPHOT observations of comet Hale-Bopp: Initial data reduction. In *The Universe as Seen by ISO* (P. Cox & M. F. Kessler, Eds.). ESA-SP 427, pp. 181.
- Cutri, R.M., M.F. Skrutskie, S. Van Dyk, T. Chester, T. Evans, J. Fowler, J. Gizis, E. Howard, J. Huchra, T. Jarrett, E.L. Kopan, J.D. Kirkpatrick, R.M. Light, K.A. Marsh, H. McCallon, S. Schneider, R. Stiening, M. Sykes, M. Weinberg, W.A. Wheaton, S. Wheelock (1999). Explanatory Supplement to the 2MASS Spring 1999 Incremental Data Release. <http://www.ipac.caltech.edu/2mass/releases/spr99/doc/explsup.html>.
- Cruikshank, D., T. Roush, J. Moore, M. Sykes, T. Owen, M. Bartholomew, R.H. Brown, and K. Tryka (1997). The surfaces of Pluto and Charon. In *Pluto* (S.A. Stern and D. Tholen, Eds.), University of

- Arizona Press, Tucson, pp. 221-268.
- Davies, J., M. Sykes, W. Reach, F. Boulanger, F. Sibille, and C. Cesarsky (1997). ISOCAM observations of the Comet P/Kopff dust trail. *Icarus* **127**, 251-254.
- Sykes, M. and P. Moynihan (1996). Asteroid motions. *Icarus* **124**, 399-406.
- Vilas, F. and M. Sykes (1996). Are low-albedo asteroids thermally metamorphosed? *Icarus* **124**, 483-489.
- Russell, C.T., J. Abshire, M. A'Hearn, J. Arnold, J. Head, C. Pieters, M. Hickman, D. Palac, C. Kluever, A. Konopliv, A. Metzger, J. Sercel, T. McCord, W. Purdy, R. Rosenthal, and M. Sykes (1996). A solar electric propulsion mission to the Moon and beyond. *Adv. Space Res.* **18**, (11)75-(11)80.
- Walter, C., M. Marley, D. Huntern, A. Sprague, W. Wells, A. Dayal, W. Hoffman, M. Sykes, L. Deutsch, G. Fasio, and J. Hora (1996). A search for seismic waves from the impact of the SL/9 R fragment. *Icarus* **121**, 341-350.
- Grayzeck, E., M. A'Hearn, A. Raugh, M. Sykes, D. Davis, and D. Tholen (1996). Services of the Small Bodies Node of the NASA Planetary Data System. *Plan. and Sp. Sci.* **44**, 47-54.
- Lynch, D., J. Hackwell, D. Edelson, F. Lahuis, P. Roelfsema, P. Wesselius, R. Walker, and M. Sykes (1995). IRAS LRS spectra of comets Tempel 1 and Tempel 2. *Icarus* **114**, 197-202.
- Orton, G., M. A'Hearn, K. Baines, D. Deming, T. Dowling, J. Goguen, C. Griffith, H. Hamme, W. Hoffmann, D. Hunten, D. Jewitt, T. Kostiuik, S. Miller, K. Noll, K. Zahnle, N. Achilleos, A. Dayal, L. Deutsch, F. Espenak, P. Esterle, J. Friedson, K. Fast, J. Harrington, J. Hora, R. Joseph, D. Kelly, J. Lacy, C. Lisse, J. Rayner, A. Sprague, M. Shure, K. Wells, P. Yanamandra-Fisher, D. Zipoy, D. Buhl, W. Golisch, D. Griep, C. Kaminski, C. Arden, A. Chaikin, J. Goldstein, D. Gilmore, G. Fazio, T. Kanamori, H. Lam, T. Livengood, M.-M. MacLow, M. Marley, T. Momary, D. Robertson, P. Romani, M. Sykes, J. Tennyson, D. Wellnitz, and S.-W. Ying (1995). The NASA Infrared Telescope Facility investigation of Comet Shoemaker-Levy 9 and its collision with Jupiter: Preliminary results. *Science* **267**, 1277-1282.
- Davis, D., M. A'Hearn, E. Grayzeck, M. Sykes, E. Alvarez del Castillo, and D. Tholen (1994). An overview of datasets on small bodies available through the Planetary Data System and SOARD. In *Asteroids, Comets, Meteors 1993* (A. Milani *et al.* Eds.), 483-488.
- Sykes, M.V. (1993). Great balls of mire. *Nature* **362**, 696-697.
- Davies, J.K., M. Sykes, and D. Cruikshank (1993). Near-infrared photometry and spectroscopy of the unusual minor planet 5145 Pholus. *Icarus* **102**, 166-169.
- Zuppero, A., M. Jacox, and M. Sykes (1993). Bootstrapping spacebased infrastructure with recently observed water objects in the space near Earth. *Nuclear Technologies for Space Exploration* American Nuclear Society NTSE-92, Vol. iii, pp. 625-634.
- Sykes, M. and R. Walker (1992). The nature of comet nuclei. In *Asteroids, Comets, Meteors 1991* (A.W. Harris and E. Bowell, eds.), LPI, Houston, pp. 587-591.
- Sykes, M. and R. Walker (1992). Cometary dust trails. I. Survey. *Icarus* **95**, 180-210.
- Sykes, M. and R. Walker (1991). Constraints on the diameter and albedo of 2060 Chiron. *Science* **251**, 777-780.
- Sykes, M. (1991). Cometary and asteroidal sources of interplanetary dust. In IAU Colloquium 126 Proceedings, *The Origin and Evolution of Interplanetary Dust* (A.-C. Levasseur-Regourd and H. Hasegawa, eds.), Kluwer, Dordrecht, pp. 389-396.
- Sykes, M., F. Vilas, T. Page, H. Smith, J. Burns, M. Colavita, G. Snyder, S.A. Stern, and D. Talent (1990). A plan for the development of lunar astronomy. In *Astrophysics from the Moon* (M. Mumma and H. Smith, Eds.), AIP, New York, pp. 328-336.
- Sykes, M., R. Walker, and D. Lien (1990). The Tempel 2 dust trail. *Icarus* **86**, 236-247.
- Sykes, M. (1990). Zodiacal dust bands: their relation to asteroid families. *Icarus* **85**, 267-289.
- Dow, K., M. Sykes, F. Low, and F. Vilas (1990). The detection of earth orbiting objects by IRAS. *Adv. Sp. Res.* **10**, 381-384.
- Sykes, M., R. Greenberg, S. Dermott, P. Nicholson, J. Burns, and T.N. Gautier (1989). Dust bands in the asteroid belt. In *Asteroids II* (R. Binzel, T. Gehrels, M. Matthews, eds.), University of Arizona Press, Tucson, pp. 336-367.
- Spencer, J., L. Lebofsky, and M. Sykes (1989). Systematic biases in radiometric diameter determinations. *Icarus* **78**, 337-354.
- Sykes, M. (1988). IRAS observations of extended zodiacal structures. *Astrophys. J. (Letters)* **334**, L55-L58.
- Sykes, M.V. (1988). The albedo of large refractory particles from P/Tempel 2. In *Comets to Cosmology*

- (A. Lawrence, Ed.), Springer-Verlag, 66-72.
- Sykes, M.V., R.M. Cutri, R.P. Binzel, and L.A. Lebofsky (1987). IRAS Serendipitous Survey observations of Pluto and Charon. *Science* **237**, 1336-1340.
- Millis, R.L., L.H. Wasserman, O.G. Franz, R.A. Nye, R.C. Oliver, T.J. Kreidel, S.E. Jones, W.B. Hubbard, L. Lebofsky, R. Goff, R. Marcialis, M. Sykes, J. Frecker, D. Hunten, B. Zellner, H. Reitsema, G. Schneider, E. Dunham, J. Klavetter, K. Meech, T. Oswalt, J. Rafert, E. Strother, J. Smith, H. Povenmire, B. Jones, D. Kornbluh, L. Reed, K. Izor, M.F. A'Hearn, R. Schnurr, W. Osborn, D. Parker, W.T. Beish, A. Klemola, M. Rios, A. Sanchez, J. Pirronen, M. Mooney, R.S. Ireland, and D. Liebow (1987). The size, shape, density and albedo of Ceres from its occultation of BD+8<sup>o</sup>. *Icarus* **72**, 507-518.
- Sykes, M.V., D.M. Hunten, F.J. Low (1986). Preliminary analysis of cometary dust trails. *Adv. Sp. Res.* **6**, 67-78.
- Sykes, M.V., L.A. Lebofsky, D.M. Hunten, and F. Low (1986). The discovery of dust trails in the orbits of periodic comets. *Science* **232**, 1115-1117.
- Sykes, M.V. and R. Greenberg (1986). The formation and origin of the zodiacal dust bands as a consequence of single collisions between asteroids. *Icarus* **65**, 51-69.
- Lebofsky, L.A., M.V. Sykes, G. Veeder, E. Tedesco, D. Matson, R.H. Brown, J. Gradie, M. Feierberg, and R.J. Rudy (1986). A refined "standard" thermal model for asteroids based on observations of asteroids 1 Ceres and 2 Pallas. *Icarus* **68**, 239-251.
- Lebofsky, L.A., M.V. Sykes, I.G. Nolt, J.V. Radostitz, G.J. Veeder, D.L. Matson, P.A.R. Ade, M.V. Griffin, W.K. Gear, and E.I. Robson (1985). Submillimeter observations of the asteroid 10 Hygiea. *Icarus* **63**, 192-200.
- Irvine, W.M., Z. Abraham, M. A'Hearn, W. Altenhoff, C. Anderson, J. Bally, W. Batrla, A. Baudry, D. Bockelee-Morvan, B. Clark, J. Crovisier, I. de Pater, D. Despois, L. Ekelund, E. Gerard, J.M. Hollis, W. Huchtmeier, R. Levreault, C.R. Masson, P. Palmer, M. Perault, L.J. Rickard, A.I. Sargent, E. Scalise, F.P. Schloerb, S. Schmidt, A.A. Stark, P. Stumpff, E. Sutton, D. Swade, M. Sykes, B. Turner, C. Wade, M. Walmsley, J. Webber, A. Winnberg, and A. Wootten (1984). Radioastronomical observations of comets IRAS-Araki-Alcock (1983d) and Sugano-Saigusa-Fujikawa (1983e). *Icarus* **60**, 215-220.
- Kemp, J.C., M.V. Sykes, and R. Rudy (1977). Nova Cygni 1975: Minute time-scale flickering and a possible 6.6-hour light period. *Astrophys. J.* **211**, L71-L75.
- Ebbinghausen, E.G., D. Lester, S. Stearns, P. Straton, and M. Sykes, (1975). Photometric observations of V470 Cygni (HD 228911). *PASP* **87**, 923-927.

## ENCYCLOPEDIA ARTICLES

- Sykes, M. (2000). Interplanetary dust. In *Encyclopedia of Astronomy and Astrophysics*, Institute of Physics Publishing and Macmillan Reference.
- Sykes, M. (1998). Infrared views of the solar system from space. In *Encyclopedia of the Solar System* (P. Weissman, T. Johnson, L.-A. McFadden, eds.), Academic Press.
- Sykes, M. (1991). The dynamics of dust in the solar system. In *Encyclopedia of Astronomy and Astrophysics* (S. Maran, ed.), Academic Press, San Diego, pp. 323-326.

## ABSTRACTS AND CIRCULARS

- O'Brien, D.P., B.J. Travis, W.C. Feldman, M.V. Sykes, P.M. Schenk, S. Marchi, C.T. Russell, C.A. Raymond (2015). The potential for volcanism on Ceres due to crustal thickening and pressurization of a subsurface ocean. *LPSC* **46**, LPI Contribution No. 1832, p.2831.
- Li, J.-Y., A. Nathues, S. Mottola, M.C. De Sanctis, N. Mastrodemos, M.V. Sykes, C.T. Russell, C.A. Raymond, M. Hoffmann, A. Longobardo, M. Ciarniello (2015). The phase function of Ceres at high phase angles. *LPSC* **46**, LPI Contribution No. 1832, p.2565.
- Travis, B.J., P.A. Bland, W.C. Feldman, M.V. Sykes (2015). Unconsolidated Ceres model has a warm convecting rocky core and a convecting mud ocean. *LPSC* **46**, LPI Contribution No. 1832, p.2360.
- Nathues, A., M.V. Sykes, I. Büttner, D.L. Buczowski, U. Carsenty, J. Castillo-Rogez, U. Christensen, P. Gutiérrez Marqués, I. Hall, M. Hoffmann, R. Jaumann, S. Joy, H.U. Keller, E. Kersten, K. Krohn, J.-Y. Li, S. Marchi, K.-D. Matz, T.B. McCord, L.A. McFadden, K. Mengel, V. Mertens, S. Mottola, W.

- Neumann, N. Mastrodemos, D.P. O'Brien, K. Otto, C. Pieters, S. Pieth, C. Polanskey, F. Preusker, M.D. Rayman, C. Raymond, V. Reddy, J. Ripken, T. Roatsch, C.T. Russell, M. Schäfer, T. Schäfer, P. Schenk, N. Schmedemann, F. Scholten, S.E. Schröder, F. Schulzeck, H. Sierks, D. Smith, K. Stephan, G. Thangjam, M. Weiland, D. Williams, M. Zuber (2015). Dawn Framing Camera clear filter imaging on Ceres approach. *LPSC 46*, LPI Contribution No. 1832, p.2069.
- Nathues, A., M. Hoffmann, M. Schaefer, C.T. Russell, T. Schaefer, K. Mengel, V. Reddy, G.S. Thangjam, H. Sierks, U. Christensen, M.V. Sykes, J.-Y. Li, H. Hiesinger, L. Le Corre, P. Gutiérrez Marqués, I. Buettner, I. Hall, J. Ripken, Dawn Science Team (2015). Framing Camera color filter imaging on Ceres approach. *LPSC 46*, LPI Contribution No. 1832, p.1957.
- Li, J.-Y., L. Jorda, H.U. Keller, N. Mastrodemos, S. Mottola, A. Nathues, C. Pieters, V. Reddy, C.A. Raymond, T. Roatsch, C.T. Russell, B.J. Buratti, S.E. Schroder, M.V. Sykes, T. Titus, F. Capaccioni, M.T. Capria, L. Le Corre, B.W. Denevi, M. de Sanctis, M. Hoffmann, M.D. Hicks (2015). Photometric properties of Vesta. *Highlights of Astronomy* **16**, 179.
- Prettyman, T.H., S.L. Koontz, R.S. Miller, M.C. Nolan, L.S. Pinsky, M.V. Sykes, A. Empl, D.J. Lawrence, D.W. Mittlefehldt, B.D. Redell (2015). Muon imaging of asteroid and comet interiors. LPI Contribution No. 1829, p.6013.
- Li, J. Y., M.V. Sykes, J.C. Castillo, L.A. McFadden 2014. The water regime of Ceres and its potential habitability. AGU Abs. #P43F-04.
- Sykes, M.V., F. Masci, R. Cutri, R. Walker, A. Mainzer, J. Bauer, R. Stevenson, P. Tricarico (2014). Extended solar system structures observed by WISE. *Am. Astron. Soc. Div. Planet. Sci. Conf.* **46**, #200.08.
- Palmer, E.E. and M.V. Sykes (2014). A rough surface model to explain surface temperatures on Vesta. *Am. Astron. Soc. Div. Planet. Sci. Conf.* **46**, #500.04.
- Palmer, E.E., M.V. Sykes, R.W. Gaskell (2014). Mercator - Autonomous navigation using panoramas. *Lun. Planet. Sci. Conf.* **45**, 2453.
- Palmer, E.E. and M.V. Sykes (2014). The observational bias of thermal spectra due to subpixel variations. *Lun. Planet. Sci. Conf.* **45**, 2441.
- Li, J.-Y., M.V. Sykes, A.V. Pathare, J.P. Kirby, J.C. Castillo-Rogez (2014). Investigating the habitability of Ceres. LPI Contrib. No. 1774, p. 4031.
- McFadden, L.A., D.R. Skillman, N. Memarsadeghi, J.-Y. Li, M. Mutchler, B. McLean, U. Carsenty, S. Mottola, S. Hellmich, M.V. Sykes, P. Tricarico, E. Palmer, C.T. Russell, C.A. Raymond (2014). Experiment to determine the upper limits and completeness of Dawn's search for satellites at Vesta. LPI Contrib. No. 1773, p. 2009.
- Palmer, E., M.V. Sykes, G. Robert, J. Li, and the Dawn VIR Team (2013). Indication of melt sheets on Vesta from thermal inertia calculations. *BAAS* **45**, #208.2.
- Palmer, E.E., D.R. Davis, C.L. Neese, M.V. Sykes (2013). Small Bodies Image Browser — A Tool Allowing Simplified Access to the Dawn Mission Data. *Lun. Planet. Sci. Conf.* **44**, 2901.
- Palmer, E.E., R.W. Gaskell, M.V. Sykes (2013). Mercator - Using High Resolution Topography for Navigation. *Lun. Planet. Sci. Conf.* **44**, 2650.
- Sykes, M.V. (2013). Planetary Science: The Need and Responsibility to Engage the Public and the Challenge of Effectiveness. *Lun. Planet. Sci. Conf.* **44**, 2453.
- Buratti, B.J., P.A. Dalba, M.D. Hicks, V. Reddy, M.V. Sykes, T.B. McCord, D.P. O'Brien, C.M. Pieters, T.H. Prettyman, L.A. McFadden, A. Nathues, L. Le Corre, S. Marchi, C. Raymond, C.T. Russell (2013). Vesta, Vestoids, and HEDs: Dawn, Ground-based, and RELAB Observations. *Lun. Planet. Sci. Conf.* **44**, 1845.
- Palmer, E., M.V. Sykes, R.W. Gaskell, J. Li (2012). High resolution topography for thermal modeling on Vesta. *Bull. Am. Astron. Soc.* **207**, #207.10.
- Schenk, P.M., D.P. O'Brien, J. Vincent, S. Marchi, D. Williams, M. Sykes (2012). Impact crater and basin morphologies on Vesta in solar system context. *Bull. Am. Astron. Soc.* **207**, #207.07.
- Ralf, J., C.T. Russell, C.A. Raymond, C.M. Pieters, R.A. Yingst, D.A. Williams, D.L. Buczkowski, P. Schenk, B. Denevi, K. Krohn, K. Stephan, T. Roatsch, F. Preusker, K. Otto, S.C. Mest, E. Ammannito, D. Blewett, U. Carsenty, C. DeSanctis, W. Garry, H. Hiesinger, H.U. Keller, E. Kersten, S. Marchi, K.D. Matz, T.B. McCord, H.Y. McSween, S. Mottola, A. Nathues, G. Neukum, D.P. O'Brien, N. Schmedemann, J.E.C. Scully, M.V. Sykes, M.T. Zuber (2012). Vesta: A geological overview. *Bull. Am. Astron. Soc.* **207**, #207.01.
- Sykes, M.V., R. Early, J. Stone, M. Wendell, C. Neese, D.R. Davis, M. A'Hearn, T. Farnham, L. Feaga

- (2012). The PDS Small Bodies Data Ferret. *Asteroids, Comets, Meteors 2012 Proc., LPI Cont. No. 1667, #6455*.
- Li, J.-Y., B.J. Buratti, F. Capaccioni, M.T. Capria, L. Le Corre, B.W. Denevi, M.C. De Sanctis, M. Hoffmann, M.D. Hicks, L. Jorda, H.U. Keller, N. Mastrodemos, S. Mottola, A. Nathues, C.M. Pieters, V. Reddy, C.A. Raymond, T. Roatsch, C.T. Russell, S.E. Schröder, M.V. Sykes, T. Titus (2012). Photometric properties of Vesta. *Asteroids, Comets, Meteors 2012 Proc., LPI Cont. No. 1667, #6387*.
- Buratti, B.J., M.D. Hicks, J.Y. Li, J.K. Hillier, V. Reddy, M.V. Sykes, C.A. Raymond, C.T. Russell, S. Mottola (2012). The Unique Photometric Properties of V-Type Asteroids and 4 Vesta. *Asteroids, Comets, Meteors 2012 Proc., LPI Cont. No. 1667, #6380*.
- Jaumann, R., S. Mottola, C.M. Pieters, C.T. Russell, C.A. Raymond, R.A. Yingst, D.A. Williams, P. Schenk, D.L. Buczkowski, B. Denevi, G. Neukum, D.P. O'Brien, W.G. Garry, D. Blewett, T. Roatsch, F. Preusker, K. Krohn, K. Stephan, U. Carsenty, A. Nathues, M.V. Sykes, M.C. De Sanctis, H.Y. McSween, H.U. Keller, N. Schmedemann, H. Hiesinger, S. Marchi, T.B. McCord, M.T. Zuber, H. Sierks (2012). Mapping Vesta: A geological overview. *Asteroids, Comets, Meteors 2012 Proc., LPI Cont. No. 1667, #6124*.
- Mest, S.C., R.A. Yingst, D.A. Williams, W.B. Garry, C.M. Pieters, R. Jaumann, D.L. Buczkowski, M.V. Sykes, D.Y. Wyrick, P.M. Schenk, C.T. Russell, C.A. Raymond, G. Neukum, N. Schmedemann, T. Roatsch, F. Preusker, E. Ammannito (2012). Geologic mapping of the Av-14 Urbinia Quadrangle of asteroid 4 Vesta. *Geophys. Res. Abs.* **14**, 9611.
- Tosi, F., M.T. Capria, M.C. De Sanctis, E. Palomba, D. Grassi, F. Capaccioni, E. Ammannito, J.-Ph. Combe, J.M. Sunshine, T.B. McCord, J.-Y. Li, T.N. Titus, C.T. Russell, C.A. Raymond, D.W. Mittlefehldt, M.J. Toplis, O. Forni, M.V. Sykes (2012). Thermal behaviour of unusual local-scale surface features on Vesta. *Geophys. Res. Abs.* **14**, 8108.
- Garry, W.B., M.V. Sykes, D.L. Buczkowski, D.A. Williams, R.A. Yingst, S.C. Mest, R. Jaumann, C.M. Pieters, H. Hiesinger, T. Roatsch, F. Preusker, C.T. Russell, C.A. Raymond (2012). Geologic mapping of Av-10 Oppia Quadrangle of asteroid 4 Vesta. *Geophys. Res. Abs.* **14**, 5711.
- Titus, T.N., K.J. Becker, A. Anderson, M.T. Capria, F. Tosi, M.C. de Sanctis, E. Palomba, D. Grassi, F. Capaccioni, E. Ammannito, J.-Ph. Combe, T.B. McCord, J.-Y. Li, C.T. Russell, C.A. Raymond, D. Mittlefehldt, M. Toplis, O. Forni, M.V. Sykes (2012). Comparison of observed surface temperatures of 4 Vesta to the KRC thermal model. *Lun. Planet. Sci. Conf.* **43**, #2851.
- Mest, S.C., R.A. Yingst, D.A. Williams, W.B. Garry, C.M. Pieters, R. Jaumann, D.L. Buczkowski, M.V. Sykes, P. Tricarico, D.Y. Wyrick, P.M. Schenk, C.T. Russell, C.A. Raymond, G. Neukum, N. Schmedemann, T. Roatsch, F. Preusker, E. Ammannito, Dawn Team (2012). Geologic mapping of the Av-14 Urbinia Quadrangle of asteroid 4 Vesta. *Lun. Planet. Sci. Conf.* **43**, #2375.
- Palmer, E.E., R.W. Gaskell, L.D. Vance, M.V. Sykes, B.K. McComas, W.C. Jouse (2012). Location identification using horizon matching. *Lun. Planet. Sci. Conf.* **43**, #2325.
- Garry, W.B., M.V. Sykes, D.L. Buczkowski, D.A. Williams, R.A. Yingst, S.C. Mest, R. Jaumann, C.M. Pieters, T. Roatsch, F. Preusker, C.T. Russell, C.A. Raymond, G. Filacchione, Dawn Science Team (2012). Geologic mapping of Av-10 Oppia Quadrangle of asteroid 4 Vesta. *Lun. Planet. Sci. Conf.* **43**, #2315.
- Capaccioni, F., J.Y. Li, M.C. de Sanctis, E. Ammannito, M.T. Capria, F. Carraro, S. Fonte, A. Frigeri, G. Magni, E. Palomba, A. Longobardo, F. Tosi, F. Zambon, M.J. Buratti, S.E. Schroeder, M.D. Hicks, V. Reddy, A. Nathues, M. Hoffman, B.W. Denevi, L. Jorda, S. Mottola, C. Pieters, C.A. Raymond, M.V. Sykes, E. Palmer, C.T. Russell, T.N. Titus, T. Roatsch, N. Mastrodemos (2012). Analysis of photometric properties of the Vesta surface materials. *Lun. Planet. Sci. Conf.* **43**, #2091.
- Tosi, F., M.T. Capria, M.C. de Sanctis, E. Palomba, D. Grassi, F. Capaccioni, E. Ammannito, J.-Ph. Combe, J.M. Sunshine, T.B. McCord, J.-Y. Li, T.N. Titus, C.T. Russell, C.A. Raymond, D.W. Mittlefehldt, M.J. Toplis, O. Forni, M.V. Sykes (2012). Analysis of temperature maps of selected Dawn data over the surface of Vesta. *Lun. Planet. Sci. Conf.* **43**, #1886.
- Jaumann, R., C.M. Pieters, C.A. Raymond, R.A. Yingst, D.A. Williams, P. Schenk, D.L. Buczkowski, B.W. Denevi, G. Neukum, S. Mottola, D.P. O'Brien, W.B. Garry, D.T. Blewett, T. Roatsch, F. Preusker, K. Krohn, K. Stephan, A. Nathues, M.V. Sykes, M.C. de Sanctis, H.Y. McSween, H.U. Keller, N. Schmedemann, H. Hiesinger, S. Marchi, T.B. McCord, M.T. Zuber (2012). Mapping Vesta: A geological overview. *Lun. Planet. Sci. Conf.* **43**, #1788.
- Tricarico, P., S.W. Asmar, A. Ermakov, R. Gaskell, R. Jaumann, A.S. Konopliv, S. Marchi, E. Palmer, R.S. Park, C.A. Raymond, C.T. Russell, P.M. Schenk, D.E. Smith, M.V. Sykes, M.J. Toplis, M.T.

- Zuber (2012). Geoid and terrain slope of Vesta from Dawn. *Lun. Planet. Sci. Conf.* **43**, #1746.
- Vincent, J.-B., M. Hoffman, A. Nathues, H. Sierks, R.W. Gaskell, S. Marchi, D. O'Brien, P. Schenk, M. Fulchignoni, H.U. Keller, C. Raymond, M. Sykes (2012). Crater depth-to-diameter ratio and surface properties of (4) Vesta. *Lun. Planet. Sci. Conf.* **43**, #1415.
- Sykes, M. (2011). Obituary: Elisabetta (Betty) Pierazzo (1963-2011). *Bull. Am. Astron. Soc.* **43**, #031.
- McFadden, L., M.V. Sykes, P. Tricarico, U. Carsenty, P. Gutierrez-Marques, R. Jacobson, S.P. Joy, H.U. Keller, J. Li, B. McLean, N. Memarsadeghi, S. Mottola, M. Mutchler, A. Nathues, D.P. O'Brien, E.E. Palmer, C. Polansky, H. Sierks, M. Rayman, C.A. Raymond, C.T. Russell, S. Schroeder, D. Skillman, S. Weinstein-Weiss, Dawn Science Team (2011). Does Vesta have moons? Dawn's search for satellites. *AGU Abs.* #U31A-0005.
- Schenk, P., R. Jaumann, C.M. Pieters, G. Neukum, N. Schmedemann, R. Yingst, D.A. Williams, W.B. Garry, D. Buzckowski, T.B. McCord, M.V. Sykes, D.P. O'Brien, D.T. Blewett, S. Asmar, A. Ermakov, R.W. Gaskell, C.A. Raymond, C. Polansky, S. Marchi, S. Mottola, T.H. Prettyman, T. Roatsch, F. Preusker, A. Nathues, C. DeSanctis, H.Y. McSween, C.T. Russell (2011). The south polar structure on Vesta from Dawn: Using geologic, topographic and compositional mapping and planetary analogs to test origin models. *AGU Abs.* #U21B-03.
- Buratti, B.J., J.-Y. Li, S.E. Schröder, V. Reddy, B.W. Denevi, L. Jorda, A. Nathues, S. Mottola, M. Hoffmann, C.A. Raymond, T. Roatsch, C.T. Russell, F. Capaccioni, M.T. Capria, M. Desantctis, G. Filacchione, N. Mastrodemos, C. Pieters, M.V. Sykes, T. Titus (2011). The global photometric properties of Vesta: First results from Dawn's approach and survey orbit. *EPSC Abstracts* **6**, 1305.
- Prettyman, T., H. McSween, M.C. de Sanctis, E. Ammannito, D. Blewett, B. Buratti, F. Capaccioni, M.T. Capria, F. Carraro, J.P. Combe, A. Coradini, B. Denevi, W. Feldman, G. Filacchione, S. Fonte, O. Forni, M. Gaffey, B. Garry, H. Hiesinger, R. Jaumann, U. Keller, D. Lawrence, L. Le Corre, J.-Y. Li, G. Magni, S. Marchi, T. Maue, T. McCord, T. McCoy, L. McFadden, D. Mittlefehldt, A. Nathues, G. Neukum, R. Noschese, E. Palmer, C. Pieters, C.A. Raymond, R. Reedy, V. Reddy, C.T. Russell, J. Scully, J. Sunshine, M. Sykes, T. Titus, M. Toplis, F. Tosi, P. Tricarico, A. Yingst, M. Zuber (2011). Dawn maps the surface composition of Vesta. *EPSC Abstracts* **6**, 550.
- Jaumann, R., R.A. Yingst, C.M. Pieters, C.T. Russell, C.A. Raymond, G. Neukum, S. Mottola, H.U. Keller, A. Nathues, H. Sierks, A. Coradini, M.C. Desantctis, H.Y. McSween, E. Ammannito, D. Berman, D. Blewett, D. Buzckowski, M.T. Capria, J.P. Combe, B. Denevi, G. Filacchione, A. Frigeri, W.B. Garry, P. Gutiérrez Marqués, H. Hiesinger, T. Kneissl, K. Krohn, E. Kührt, L. Le Corre, J.Y. Li, S. Marchi, L. McFadden, S. Mest, D. Mittlefehldt, D.P. O'Brien, N. Petro, T.H. Prettyman, F. Preusker, M.D. Rayman, T. Roatsch, P. Schenk, F. Scholten, N. Schmedemann, S. Schröder, J. Scully, K. Stephan, J. Sunshine, M.V. Sykes, D. Turrini, R. Wagner, D.A. Williams (2011). Mapping Vesta: First results from Dawn's survey orbit. *EPSC Abstracts* **6**, 437.
- Capria, M.T., F. Tosi, A. Coradini, M.C. de Sanctis, E. Ammannito, F. Capaccioni, F. Carraro, G. Filacchione, S. Fonte, D. Grassi, G. Magni, R. Noschese, J.-P. Combe, M. Sykes, T. Titus, P. Tricarico, C.T. Russell, C.A. Raymond (2011). Vesta's temperature: first results from Dawn's survey orbit. *EPSC Abstracts* **6**, 254.
- Russell, C.T., C.A. Raymond, R.A. Mase, M.D. Rayman, C.A. Polansky, S. Joy, R. Jaumann, H.Y. McSween, M.V. Sykes, L.A. McFadden, J.Y. Li, P. Tricarico, A.S. Konopliv, S.W. Asmar, M.T. Zuber, D.A. Smith, T. Roatsch, A. Coradini, N. Mastrodemos, H.U. Keller, A. Nathues, M.C. Desantctis, C. M. Pieters, T.H. Prettyman, R.A. Yingst, P. Schenk (2011). Exploring the smallest terrestrial planet: Dawn at Vesta. *EPSC Abstracts* **6**, 97.
- McFadden, L.A., M. Sykes, S. Joy, P. Tricarico, D. O'Brien, J.Y. Li, M. Mutchler, Nargess Memarsadeghi, H. Safavi, P. Gutierrez-Marques, A. Nathues, S. Mottola, H. Sierks, S. Schroeder, C. Polansky, R. Jacobson, C.T. Russell, C.A. Raymond, M. Rayman, S. Weinstein-Weiss, E. Palmer (2011). Does Vesta have moons? *Meteor. Planet. Sci. Supp.* **74**, #5362
- O'Brien, D. P.; Sykes, M. V.; Tricarico, P. (2011). Collision Probabilities and Impact Velocity Distributions for Vesta and Ceres. *LPSC* **42**, 2665.
- Hartmann, W. K.; Goodrich, C. A.; O'Brien, D. P.; Michel, P.; Weidenschilling, S. J.; Sykes, M. V. (2011). Breakup and Reassembly of the Ureilite Parent Body, Formation of 2008 TC3/Almahata Sitta, and Delivery of Ureilites to Earth. *LPSC* **42**, 1360.
- Goodrich, C. A.; Wilson, L.; Michel, P.; Hartmann, W.; Sykes, M. V. (2011). What Is and What Isn't Wrong with Equilibrium Smelting Models for Ureilite Petrogenesis. *LPSC* **42**, 1233.
- Sykes, M.V., P. Tricarico, J.-Y. Li (2010). Constraining thermophysical models of Vesta with Dawn.



- B.A.A.S.* **42**, 1033.
- Li, J.-Y., P.C. Thomas, L.A. McFadden, J.W. Parker, C.T. Russell, S.A. Stern, M.V. Sykes, and E.F. Young (2010). Hubble Space Telescope observation of Asteroid 1 Ceres in 2003/04. *Astrobiology Science Conference 2010: Evolution and Life: Surviving Catastrophes and Extremes on Earth and Beyond*. LPI Contribution No. 1538, p.5455.
- Tricarico, P. and M.V. Sykes (2010). The dynamics of Dawn at Vesta. *LPSC* **41**, 2289.
- Jensen, E.A., F. Vilas, and M.V. Sykes (2010). Searching for satellites of Vesta. *LPSC* **41**, 2556.
- Enga, M.-T., D. Trilling, M. Mueller, L. Wasserman, M. Sykes, M. Blaylock, J. Stansberry, B. Bhattacharya, and T. Spahr (2009). Albedo and diameter distributions of asteroid families using the Spitzer Asteroid Catalog. *B.A.A.S.* **41**, #34.02.
- Agarwal, J., H. Boehnhardt, E. Gruen, R. Laureijs, W.T. Reach, J. Stansberry, and M.V. Sykes (2009). The dust trail of comet 67P/Churyumov-Gerasimenko in 2008. *B.A.A.S.* **41**, #20.09.
- Rivkin, A.S., J.C. Castillo-Rogez, B.A. Cohen, P.G. Conrad, J. Li, L.F. Lim, A.J. Lovell, T.M. McCord, L.A. McFadden, W.B. McKinnon, R.E. Milliken, C.T. Russell, B.E. Schmidt, M.V. Sykes, and P.C. Thomas (2009). The case for Ceres: Report to the Planetary Science Decadal Survey Committee. *B.A.A.S.* **41**, #16.22.
- Fernandez, Y.R., E. Ammannito, J. Bauer, J. Bellerose, J. Castillo-Rogez, W. Grundy, N. Haghighipour, J. Li, B. Mueller, B., K. Noll, C. Olkin, J. Stansberry, M. Sykes, J. Trigo-Rodriguez, A. Verbiscer, H. Weaver, and H. Yano (2009). Community consensus white paper on goals and priorities for the study of Centaurs and small Trans-Neptunian Objects in the 2010s. *B.A.A.S.* **41**, #16.19.
- Grundy, W.M., W.B. McKinnon, E. Ammannito, J.C. Castillo-Rogez, W.J. Merline, K.S. Noll, A.S. Rivkin, J.A. Stansberry, M.V. Sykes, and A.J. Verbiscer (2009). Exploration strategy for the dwarf planets 2013-2022. *B.A.A.S.* **41**, #16.19.
- Sykes, M. (2009). Classifying planets from a geophysical perspective. *B.A.A.S.* **41**, 740.
- Jensen, E., F. Vilas, and M. Sykes (2009). Searching for satellites of Vesta. *B.A.A.S.* **41**, 559.
- Mueller, M., T. Grav, D. Trilling, J. Stansberry, and M. Sykes (2008). Size and albedo of irregular Saturnian satellites from Spitzer observations. *B.A.A.S.* **40**, #61.08.
- Vilas, F., A. Heinze, M. Sykes, P. Hinz, and L. McFadden (2008). Probing thermal properties of Vesta's surface materials. *B.A.A.S.* **40**, #22.03.
- Li, J.-Y., L.A. McFadden, P.C. Thomas, M. Mutchler, J.W. Parker, E.F. Young, C.T. Russell, M.V. Sykes and B.E. Schmidt (2008). Photometric mapping of Asteroid (4) Vesta from HST observation. *LPSC XXXIX*, 2253.
- Vilas, F. and M.V. Sykes (2008). Low albedo main-belt asteroids: Aqueous alteration trends with smaller diameters. *LPIC No. 1405*, #8343.
- Trilling, D.E., B. Bhattacharya, M. Blaylock, J.A. Stansberry, M.V. Sykes, and L.H. Wasserman (2007). The Spitzer Asteroid Catalog: Albedos And Diameters of 35,000 Asteroids. *B.A.A.S.* **39**, #35.15.
- Li, J., L.A. McFadden, P.C. Thomas, M. Mutchler, J.W. Parker, E.F. Young, C.T. Russell, M.V. Sykes, and B. Schmidt (2007). Photometric Mapping of Asteroid (4) Vesta from HST. *B.A.A.S.* **39**, #30.11.
- McFadden, L.A., P.C. Thomas, B. Carcich, M. Mutchler, J. Li, F. Bastien, D.P. Hamilton, J. Parker, E.F. Young, M.V. Sykes, B. Schmidt, and C.T. Russell (2007). Observations of Vesta with HST-Wide Field Planetary Camera 2 in 2007. *B.A.A.S.* **39**, #30.03.
- Trilling, D.E., B. Bhattacharya, M. Blaylock, J.A. Stansberry, M.V. Sykes, and L.H. Wasserman (2006). The Spitzer Asteroid Catalog. *B.A.A.S.* **38**, #59.21.
- Reach, W.T., M.S. Kelley, and M.V. Sykes (2006). A survey of debris trails from short-period comets. *B.A.A.S.* **38**, #43.02.
- Gruen, E., J. Agarwal, M. Mueller, H. Boehnhardt, W.T. Reach, M.V. Sykes, and D.J. Lien (2006). *B.A.A.S.* **38**, #33.01.
- Head, J. and M.V. Sykes (2005). Exploration-driven NEO detection requirements. *B.A.A.S.* **37**, 1562.
- Rivkin, A.S., L.A. McFadden, R.P. Binzel and M.V. Sykes (2005). Rotationally resolved spectroscopy of Vesta in the 2-3 micron region. *LPSC* **36**, Abs. 1811.
- Li, J.-Y., L.A. McFadden, J.W. Parker, E.F. Young, P.C. Thomas, C.T. Russell, S.A. Stern and M.V. Sykes (2005). HST photometry and surface mapping of asteroid 1 Ceres. *LPSC* **36**, Abs. 1345.
- Rivkin, A.S., L.A. McFadden, M. Sykes, and R.P. Binzel (2004). Rotationally resolved spectroscopy of Vesta in the 1-4 micron region. *B.A.A.S.* **36**, 1131.
- Parker, J.W., P. Thomas, E. Young, M. Sykes, L.A. McFadden, C.T. Russell, and S.A. Stern (2004). Ceres observations with HST: First results. *B.A.A.S.* **36**, 1130.

- Sykes, M.V., C.T. Russell, A. Coradini, U. Christensen, M.C. de Sanctis, W.C. Feldman, R. Jaumann, U. Keller, A.S. Konopliv, T.B. McCord, L.A. McFadden, H.Y. McSween, S. Mottola, G. Neukum, C.M. Pieters, T.H. Prettyman, C. Raymond, D.E. Smith, B.G. Williams, J. Wise, and M.T. Zuber (2004). Dawn mission update. *B.A.A.S.* **36**, #14.02.
- Kirkland, L., M. Sykes, T. Farr, J. Adams, and D. Blaney (2003). Strategies to support visible-infrared spectroscopic exploration of Mars' surface. *Eos* **84**, 148.
- Lynch, D.K., R.W. Russell, R.J. Rudy, S. Mazuk, C.C. Venturini, H.B. Hammel, R.B. Perry, M.V. Sykes, and R.C. Puetter (2003). The 1-13 micron spectrum of Diemos and Phobos. *B.A.A.S.* **35**, 16.03.
- Barrera-Pineda, P.S., A.J. Lovell, M.V. Sykes, F.P. Schloerb, and L. Carrasco (2003). Variability of thermal emission from large asteroids. *B.A.A.S.* **35**, 34.04.
- Reach, W.T., M.D. Hicks, S. Gilliam, B. Bhattacharya, M.S. Kelly, and M.V. Sykes (2003). The debris trail and near-nucleus dust environment of the ROSETTA mission target 67P/Churyumov-Gerasimenko. *B.A.A.S.* **35**, 30.07.
- Sykes, M.V., P.E. Painter, R.M. Cutri, and D.J. Tholen (2003). Comets in the Two-Micron All Sky Survey. *B.A.A.S.* **35**, 26.02
- Russell, C.T., A. Coradini, M.C. De Sanctis, W.C. Feldman, R. Jaumann, A.S. Konopliv, T.B. McCord, L.A. McFadden, H.Y. McSween, S. Mottola, G. Neukum, C.M. Pieters, T.H. Prettyman, C.A. Raymond, D.E. Smith, M.V. Sykes, B.G. Williams, J. Wise, and M.T. Zuber (2003). Dawn mission: A journey in space and time. *LPSC XXXIV*, 1473.
- Lowry, S.C., P.R. Weissman, M.V. Sykes, and W.T. Reach (2003). Observations of periodic comet 2P/Encke: Physical properties of the nucleus and first visual-wavelength detection of its dust trail. *LPSC XXXIV*, 2056.
- Sykes, M.V., R.M. Cutri, J.W. Fowler, D.J. Tholen, and M.F. Skrutskie (2002). Probing the asteroid belt with 2MASS. *B.A.A.S.* **34**, 841.
- Sykes, M.V., R.M. Cutri, J.W. Fowler, D.J. Tholen, and M.F. Skrutskie (2001). 2MASS and the solar system. *B.A.A.S.* **33**, 827.
- Jones, T.D., F. Vilas, S. Love, K. Hack, L. Gefert, M.V. Sykes, J.S. Lewis, R. Jedicke, D. Davis, W.K. Hartmann, R. Farquhar, L. McFadden, and D. Durda (2001). The next giant leap: Human exploration and utilization of NEOs. *B.A.A.S.* **33**, 989.
- Sykes, M.V., S.M. Larson, R. Whiteley, U. Fink, R. Jedicke, J. Emery, R. Fevig, M. Kelley, A.W. Harris, S. Ostro, K. Reed, R.P. Binzel, A. Rivkin, C. Magri, W. Bottke, D. Durda, R. Walker, D. Davis, W.K. Hartmann, D. Sears, H. Yano, J. Granahan, A. Storrs, S.J. Bus, J.F. Bell, D. Tholen, and A. Cellino (2001). Exploring main belt asteroids. *B.A.A.S.* **33**, 989.
- Gruen, E., J. Hahn, D. Hamilton, W. Harris, M. Horanyi, D.L. Huestis, A. Krivov, A.C. Levasseur-Regourd, J.C. Liou, C. Lisse, M. Kuchner, D. Meisel, W.T. Reach, T.P. Snow, J. Stansberry, M. Sykes, H. Yano, and M. Zolensky (2001). *B.A.A.S.* **33**, 991.
- Sykes, M.V., R.M. Cutri, J.W. Fowler, D.J. Tholen, and M.F. Skrutskie (2001). 2MASS Survey of Asteroids, Comets, and Satellites. *B.A.A.S.* **33**, 1120.
- Sykes, M., R. Cutri, J. Fowler, D. Tholen, and M. Skrutskie (2000). Pluto. *IAU Circular* 7518.
- Sykes, M.V., R.M. Cutri, J.W. Fowler, D.J. Tholen, and M.F. Skrutskie (2000). Comets in the 2MASS Second Incremental Data Release. *B.A.A.S.* **32**, 4403.
- Sykes, M., R. Cutri, J. Fowler, D. Tholen, and M. Skrutskie (2000). Comets C/1998 K1 (Mueller) and C/1998 M2 (LINEAR). *IAU Circular* 7500.
- Sykes, M.V., R.M. Cutri, J.W. Fowler, D.J. Tholen, M.F. Skrutskie, S. Price, and E.F. Tedesco (1999). The 2MASS Asteroid and Comet Survey. *B.A.A.S.* **31**, 5915.
- Doressoundiram, A., P. Weissman, M. Fulchignoni, M.A. Barucci, A. Le Bras, F. Colas, J. Lecacheux, M. Birlan, M. Lazarrin, S. Fornasier, E. Dotto, C. Barbieri, M.V. Sykes, S. Larson, and C. Hergenrother (1999). Physical and Chemical properties of asteroid 4979 Otawara. *B.A.A.S.* **31**, 5912.
- Reach, W.T., M.V. Sykes, D.J. Lien, and J.K. Davies (1999). The dust trail of comet Encke. *B.A.A.S.* **31**, 3004.
- Weissman, P., A. Doressoundiram, M. Hicks, A. Chamberlin, M. Sykes, S. Larson, and C. Hergenrother (1999). CCD photometry of comet and asteroid targets of spacecraft missions. *B.A.A.S.* **31**, 3003.
- Peschke, S.B., Gruen, E., H. Boehnhardt, H. Campins, D.J. Osip, M.S. Hanner, I. Heinrichsen, R. Knacke, Ch. Leinert, D. Lemke, C.M. Lisse, M. Stickel, M. Sykes, V. Vanysek, J. Zarnecki (1997). Properties of cometary comae, deduced with ISOPHOT. *B.A.A.S.* **29**, 1260.
- Pescke, S.B., Gruen, E., H. Boehnhardt, H. Campins, D.J. Osip, M.S. Hanner, I. Heinrichsen, R. Knacke,

- Ch. Leinert, D. Lemke, C.M. Lisse, M. Stickel, M. Sykes, V. Vanysek, J. Zarnecki (1997). Comets with ISOPHOT. *B.A.A.S.* **29**, 1029-1030.
- Hickman, M., K. Hack, C. Russell, and M. Sykes. Exploration of the inner solar system using advanced propulsion systems (1995). *Bull. Am. Astr. Soc.* **27**, 1153.
- Vilas, F. and M. Sykes. Are low-albedo asteroids thermally metamorphosed? (1995). *Bull. Am. Astr. Soc.* **27**, 1056-1057.
- Marley, M., A. Dayal, L. Deutsch, G. Fazio, W. Hoffmann, J. Hora, D. Hunten, A. Sprague, M. Sykes, C. Walter, and K. Wells (1994). A search for seismic waves launched by the impact of comet Shoemaker-Levy/9. *Bull. Am. Astr. Soc.* **26**, 1580.
- Orton, G., K. Baines, J. Friedson, J. Goguen, P. Yanamandra-Fisher, M. A'Hearn, P. Esterle, C. Lisse, H. Weaver, D. Wellnitz, W. Hoffmann, D. Hunten, A. Dayal, A. Sprague, M. Sykes, K. Wells, M. Marley, G. Fazio, L. Deutsch, J. Hora, D. Jewitt, R. Joseph, D. Deming, T. Kostiuk, G. Bjoraker, K. Fast, T. Livengood, D. Zipoy, C. Griffith, T. Dowling, H. Hammel, J. Harrington, D. Kelly, J. Lacy, K. Noll, R. Knacke, S. Miller, K. Zahnle, M.-M. Mac Low. The NASA/IRTF SL9 observing campaign. *Bull. Am. Astr. Soc.* **26**, 1581.
- Marley, M., K. Wells, D. Hunten, A. Sprague, W. Hoffmann, M. Sykes, A. Dayal, L. Deutsch, G. Fazio, J. Hora, and C. Walter (1994). A search for seismic waves launched by the impact of comet Shoemaker-Levy/9. *Eos* **75**, 403.
- Plath, J. and M. Sykes (1994). Thermal modeling of triaxial ellipsoids. *Bull. Am. Astr. Soc.* **26**, 1176.
- Sykes, M., R. Cutri, P. Moynihan, and J. Plath (1994). A parallactic mini-survey of the infrared sky. *Bull. Am. Astr. Soc.* **26**, 1120.
- Russell, C.T., A. Metzger, C. Pieters, R. Elphic, T. McCord, J. Head, J. Abshire, R. Phillips, M. Sykes, M. A'Hearn, M. Hickman, J. Sercel, C. Kluever, R. Rosenthal, and W. Purdy (1994). Maximizing the scientific return of low cost planetary missions using solar electric propulsion. *Bull. Am. Astr. Soc.* **26**, 1091.
- Sykes, M. (1993). Implications of Pluto-Charon radiometry. *Bull. Am. Astr. Soc.* **25**, 1138.
- Plath, J. and M. Sykes (1993). Three-dimensional thermal modeling of asteroids. *Bull. Am. Astr. Soc.* **25**, 1128.
- Alvarez, E., M. Sykes, and D. Davis (1993). An interactive database for asteroids. *Bull. Am. Astr. Soc.* **25**, 1127.
- Moynihan, P. and M. Sykes (1993). Asteroid motions. *Bull. Am. Astr. Soc.* **25**, 1118.
- Davies, J., J. Spencer, M. Sykes, D. Tholen, and S. Green (1993). Q bolometry of 1992AD. *IAU Circular* **5698**
- Lynch, D., F. Lahuis, P. Roelfsema, P. Wesselius, R. Walker, M. Sykes, and J. Hackwell (1993). IRAS LRS spectra of comets Tempel 1 and Tempel 2. *Bull. Am. Astr. Soc.* **24**, 1126-1127.
- Sykes, M. and R. Walker (1992). Debris in the orbits of comets and asteroids. *Bull. Am. Astr. Soc.* **24**, 1005.
- Davies, J. and M. Sykes (1992). JHK photometry of 1992AD. *IAU Circular* **5480**
- Howell, M., R. Marcialis, R. Cutri, L. Lebofsky, and M. Sykes (1992). Albedo and diameter of 1992AD. *IAU Circular* **5449**
- Sykes, M. and P. Weissman (1991). Are extreme seasonal variations controlling Chiron's activity? *Bull. Am. Astr. Soc.* **23**, 1163.
- Sykes, M. and R. Walker (1991). How dirty are comets? *Bull. Am. Astr. Soc.* **23**, 1158-1159.
- Sykes, M. (1990). New perspectives on the solar system from IRAS. *Bull. Am. Astr. Soc.* **22**, 1122.
- Geissler, P.E., R.B. Singer, M.J. Rieke, and M.V. Sykes (1989). Analysis of near-infrared multispectral images from the 1988 opposition of Mars. *Eos* **70**, 1179.
- Sykes, M.V. (1989). Asteroidal sources of dust at the earth's orbit. *Meteoritics* **24**, 330.
- Walker, R.G., M.V. Sykes, and D.J. Lien (1989). Thermal properties of dust trail particles. *Bull. Am. Astr. Soc.* **21**, 967.
- Sykes, M.V. and R.M. Cutri (1989). The IRAS Deep-Sky Survey of Asteroids. *Bull. Am. Astr. Soc.* **21**, 963.
- Sykes, M., R. Walker, and D. Lien (1989). The Tempel 2 dust trail. In *Comets in the Post-Halley Era* JPL 400-359, p. 242.
- Sykes, M. (1989). Cometary dust trails. In *Comets in the Post-Halley Era* JPL 400-359, p. 230.
- Sykes, M.V. (1988). Dust in the Koronis asteroid family. *Bull. Am. Astr. Soc.* **20**, 862.
- Sykes, M. and K. Dow (1988). The cometary dust trail survey. *Bull. Am. Astr. Soc.* **20**, 840.
- Dow, K. and M. Sykes (1988). A search for moving sources in the IRAS skyflux plates. *Bull. Am. Astr.*

- Soc. **19**, 1070.
- Sykes, M.V. (1987). The albedo of large particles in P/Tempel 2. *Bull. Am. Astr. Soc.* **19**, 893-894.
- Sykes, M.V. (1987). The discovery of more asteroid dust bands: are they related to asteroid families? *Bull. Am. Astr. Soc.* **19**, 825.
- Sykes, M.V. (1987). Preliminary evidence for a recent collision between two asteroids. *Bull. Am. Astr. Soc.* **19**, 825.
- Sykes, M.V. (1987). IRAS observations of asteroid dust bands and cometary dust trails. *Bull. Am. Astr. Soc.* **18**, 1018.
- Sykes, M.V., D.M. Hunten, F.J. Low, L.A. Lebofsky, F. Vilas, and L.A. McFadden (1986). A Survey of Solar System Dust Trails. *Bull. Am. Astr. Soc.* **18**, 819.
- Sykes, M.V. and R. Greenberg (1986). The production of the IRAS zodiacal dust bands by single collisions between asteroids. *Publ. Astr. Soc. Pac.* **97**, 907.
- Sykes, M.V., R. Greenberg, D.M. Hunten, and F.J. Low (1985). Analysis of zodiacal dust bands in the IRAS sky survey. *Bull. Am. Astron. Soc.* **17**, 704.
- Millis, R., L. Wasserman, O. Franz, W. Hubbard, L. Lebofsky, R. Goff, R. Marcialis, M. Sykes, J. Frecker, D. Hunten, H. Reitsema, B. Zellner, M. Rios, E. Dunham, J. Klavetter, K. Meech, T. Oswalt, J. Rayfert, M. A'Hearn, G. Schneider, W. Osborn, D. Parker, A. Klemola, and J. Pirronen (1985). The occultation diameter of Ceres. *Bull. Am. Astron. Soc.* **17**, 729.
- Lebofsky, L.A., M.V. Sykes, G.J. Veeder, E.F. Tedesco, D.L. Matson, R.H. Brown, J.C. Gradie, M.A. Feierberg, and R.J. Rudy (1985). Refined thermal models for asteroids based on infrared observations and the occultation diameter of Ceres. *Bull. Am. Astron. Soc.* **17**, 729.
- Hubbard, W.B., L.A. Lebofsky, D.M. Hunten, H.J. Reitsema, B.H. Zellner, R. Goff, R. Marcialis, M. Sykes, J. Frecker, A. Sanchez I., M. Rios H., and M. Izaguirre M. (1985). Occultation diameter of asteroid 1 Ceres. *Lunar Planet. Sci. XVI* 370-371.
- Sykes, M.V., R. Greenberg, and D.M. Hunten (1984). Formation of the zodiacal dust bands in the asteroid belt. *Bull. Am. Astron. Soc.* **16**, 632.
- Lebofsky, L.A., M.V. Sykes, E.F. Tedesco, G.J. Veeder, D.L. Matson, I.G. Nolt, J.V. Radostitz, P.A.R. Ade, W.K. Gear, M.J. Griffin, and E.I. Robson (1984). Thermal properties of the regolith of asteroid 1 Ceres. *Bull. Am. Astron. Soc.* **16**, 633.
- Hilton, D.A., C.C. Cunningham, R.E. Eplee, Jr., D.H. Grinspoon, A. Hildebrand, T.D. Jones, S. Pope, N.M. Schneider, M.V. Sykes, and D.M. Hunten (1984). Design and construction of the "Mars Ball" prototype exploration vehicle. *Bull. Am. Astron. Soc.* **16**, 707.
- Sykes, M.V., S.M. Larson, N.M. Schneider, D.M. Hunten, and R. Schild (1983). CCD image analysis of the inner coma of comet IRAS-Araki-Alcock (1983d). *Bull. Am. Astron. Soc.* **15**, 800.
- Irvine, W.M., F.P. Schloerb, D. Swade, R. Levreault, E.C. Sutton, I. de Pater, M. Sykes, P. Palmer, C. Wade, B. Clark, L.J. Rickard, Z. Abraham, E. Scalise, Inpe, A. Wooten, B. Turner, A. Winnberg, L. Ekelund, C. Anderson, M. A'Hearn, and L. Vlitiz, (1983). Radioastronomical observations of comet IRAS-Araki-Alcock. *Bull. Am. Astron. Soc.* **15**, 803.
- Nolt, I.G., S.A. Stearns, M.V. Sykes, J.S. Gibbons, J.V. Radostitz, and R.J. Donnelly (1976). Analysis of the photometric record of HDE 226868 (Cygnus X-1). *Bull. Am. Astron. Soc.* **8**, 361.
- Kemp, J.C., M.V. Sykes, and R.J. Rudy (1976). On the light-curve of V1500 Cygni. *IAU Circular* 2891

#### PEER REVIEWED DATA PUBLICATIONS

- Sykes, M.V., R.M. Cutri, M.F. Skrutskie, J.W. Fowler, D.J. Tholen, P.E. Painter, B. Nelson, and D.J. Kirkpatrick (2010). 2MASS Asteroid and Comet Survey V2.0. EAR-A-I0054/I0055-5-2MASS-V2.0. NASA Planetary Data System.
- Chamberlain, M.A., A.J. Lovell, and M.V. Sykes (2008). Submillimeter Lightcurves of Asteroids V1.0. EAR-A-I0387-3-SUBMMLC-V1.0. NASA Planetary Data System.
- Li, J.-Y., E.F. Young, P.C. Thomas, J.Wm. Parker, L.A. McFadden, C.T. Russell, S.A. Stern, and M.V. Sykes (2006). HST Images, Albedo Maps, and Shape of 1 Ceres V1.0. EAR-A-HSTACS-5-CERESHST-V1.0. NASA Planetary Data System.
- Sykes, M.V., B. Nelson, R.M. Cutri, D.J. Kirkpatrick, R. Hurt, and M. Skrutskie (2006). 2MASS Satellite Association List. EAR-A-I0054/I0055-5-2MASS-V1.0:SAT2MASS\_TAB. NASA Planetary Data System.
- Sykes, M.V., P.E. Painter, R.M. Cutri, D.J. Tholen, J. Fowler, and M. Skrutskie (2006). 2MASS Comet

Association List. EAR-A-I0054/I0055-5-2MASS-V1.0:COM2MASS\_TAB. NASA Planetary Data System.

Sykes, M.V., R.M. Cutri, J.W. Fowler, D.J. Tholen, and M.F. Skrutskie (2006). 2MASS Asteroid Association List. EAR-A-I0054/I0055-5-2MASS-V1.0:AST2MASS\_TAB. NASA Planetary Data System.

Sykes, M.V., R.M. Cutri, M.F. Skrutskie, J.W. Fowler, D.J. Tholen, P.E. Painter, B. Nelson, and D.J. Kirkpatrick (2006). 2MASS Asteroid and Comet Survey V1.0. EAR-A-I0054/I0055-5-2MASS-V1.0. NASA Planetary Data System.