3. APPLICABLE AND REFERENCE DOCUMENTS

3.1. Applicable Documents

ID#	Reference	Issue	Title
[AD-1]	Proposal to ESA's Cosmic Vision 2015-2025 Call for M-class missions 2016	5 October 2016	EnVision, Understanding why our most Earth-like neighbour is so different

3.2. Reference Documents

ID#	Reference	Issue	Title
[RD-1]	ESA document reference ESA-ENVIS-EST-MIS-RS-001	V3.1	EnVision Mission Requirements Document (MRD)
[RD-2]	TBC	-	Mission Implementation Requirements Document (MIRD), ESA document to be written.
[RD-3]	ESA document reference ESA-ENVIS-EST-SCI-RS-001	1.0	Science Implementation Requirements Document
[RD-4]	Basilevsky and McGill, 2007, Geophysical Monograph Series 176, edited by L. W. Esposito, E. R. Stofan and T. E. Cravens, pp. 23-43, American Geophysical Union, Washington, DC	2007	Surface evolution of Venus, in Exploring Venus as a Terrestrial Planet
[RD-5]	R.J. Philips, *et al.*, J. Geophys. Res., 97 (1992), pp. 15923-15948.	1992	Impact craters and Venus resurfacing history
[RD-6]	D.L. Turcotte, JGR Solid Earth, Volume 94, Issue B3, Pages 2779-2785, doi.org/10.1029/JB094iB03p02779	1989	A heat pipe mechanism for volcanism and tectonics on Venus
[RD-7]	Mueller, N.T., *et al.*, Journal of Geophysical Research: Planets, 122(5), pp.1021-1045, doi.org/10.1002/2016JE005211	2017	Search for active lava flows with VIRTIS on Venus Express.
[RD-8]	R.D. Lorenz, Planetary and Space Science (PSS), Volume 117, pages 356-361,	2015	Probabilistic constraints from existing and future radar imaging on volcanic activity on Venus

	doi.org/10.1016/j.pss.2015.07.009		
[RD-9]	Stofan et al., Journal of Geophysical Research 100, Issue E11, p. 23317-23327, doi.org/10.1029/95JE01834	1995	Large topographic rises on Venus: Implications for mantle upwelling.
[RD-10]	Bondarenko et al., Geophysical Research Letters 37, L23202, doi:10.1029/2010GL045233	2010	Present-Day Volcanism on Venus: Evidence from Microwave Radiometry,
[RD-11]	L. Esposito et al., J. Geophys. Res., 93 (1988), pp. 5267-5276, doi.org/10.1029/JD093iD05p05267	1988	Sulfur dioxide at the Venus cloud tops, 1978–1986
[RD-12]	Smekar et al., Science, 328, Issue 5978, pp. 605-608	2010	Recent Hotspot Volcanism on Venus from VIRTIS Emissivity Data
[RD-13]	D'Incecco, P., et al., Planetary and Space Science, 136, 25-33 DOI: 10.1016/j.pss.2016.12.002	2017	Idunn Mons on Venus: Location and extent of recently active lava flows
[RD-14]	Lorenz, R., A. Le Gall and M.A. Janssen, Icarus, 270, pp. 30-36, doi.org/10.1016/j.icarus.2015.07.023	2016	Detecting Volcanism on Titan and Venus with Microwave Radiometry
[RD-15]	Marcq, E., et al., Nature Geosciences, 6, 25–28, doi.org/10.1038/ngeo1650	2013	Variations of sulphur dioxide at the cloud top of Venus's dynamic atmosphere
[RD-16]	Malin, M.C., J. Geophys. Res., 97, 16337-16352, doi.org/10.1029/92JE01343	1992	Mass movements on Venus: Preliminary results from Magellan Cycle I observations.
[RD-17]	B. Grieger, N.I. Ignatiev, N.M. Hoekzema, H.U. Keller, Proceedings of the International Workshop Planetary Probe Atmospheric Entry and Descent Trajectory Analysis and Science, 6-9 October 2003, Lisbon, Portugal. Pages 63-70. Edited by A. Wilson. ESA SP-544, Noordwijk, Netherlands: ESA Publications Division, ISBN 92-9092-855-7, 364 pp.	2004	Indication of a near surface cloud layer on Venus from reanalysis of Venera 13/14 spectrophotometer data
[RD-18]	Greeley, R. et al., J. Geophys. Res. 97, Issue E8, 13319–13345, doi.org/10.1029/92JE00980	1992	Aeolian features on Venus - Preliminary Magellan results

[RD-19]	Greeley, R. et al., Icarus 115, Issue 2, 399–420, doi.org/10.1006/icar.1995.1107	1995	Wind-related features and processes on Venus: summary of Magellan results.
[RD-20]	Weitz, C.M. et al., Icarus 112, 282–295, doi.org/10.1006/icar.1994.1181	1994	Dunes and microdunes on Venus: why were so few found in the Magellan data?
[RD-21]	Kreslavsky, M.A., Bondarenko, N.V., Aeolian Research, 26, 29–46, doi.org/10.1016/j.aeolia.2016.06.001	2017	Aeolian sand transport and aeolian deposits on Venus: a review.
[RD-22]	Neakrase, L., Klose, M., Titus, T., Aeolian Research, 26, 47–56, doi.org/10.1016/j.aeolia.2017.03.002	2017	Terrestrial subaqueous seafloor dunes: Possible analogs for Venus.
[RD-23]	Kobayashi, T., et al., Proceedings of the 15th International Conference on Ground Penetrating Radar, IEEE, DOI: 10.1109/ICGPR.2014.6970585	2014	GPR observation of the Moon from orbit: Kaguya Lunar Radar Sounder.
[RD-24]	Picardi, G., et al., Science 310(5756), 1925-1928, DOI: 10.1126/science.1122165	2005	Radar soundings of the subsurface of Mars.
[RD-25]	Herrick and Rumpf, JGR Planets, vol. 116, iss E2, doi.org/10.1029/2010JE003722	2011	P Postimpact modification by volcanic or tectonic processes as the rule, not the exception, for Venusian craters
[RD-26]	Pettengill et al., JGR, Vol. 97, Iss E8, 13091-13102, doi.org/10.1029/92JE01356	1992	Venus surface radiothermal emission as observed by Magellan
[RD-27]	Klose et al., Journal of Geophysical Research, 97, 16353–16369, DOI: 10.1029/92JE01865	1992	Mineral equilibria and the high radar reflectivity of Venus mountaintops
[RD-28]	B. Campbell, Icarus, Volume 112, Issue 1, 187-203, https://doi.org/10.1006/icar.1994.1177	1994	Merging Magellan Emissivity and SAR Data for Analysis of Venus Surface Dielectric Properties
[RD-29]	R.E. Arvidson et al., Icarus, vol. 112, iss 1, 171-186, doi.org/10.1006/icar.1994.1176	1994	Microwave Signatures and Surface Properties of Ovda Regio and Surroundings, Venus
[RD-30]	M.K. Shepard, GRL, Vol 21, Iss. 6, 469-472, doi.org/10.1029/94GL00392	1994	A ferroelectric model for the low emissivity highlands on Venus

[RD-31]	Campbell, B.A., and D.B. Campbell, J. Geophys. Res., vol. 97, iss E10, 16293-16314, https://doi.org/10.1029/92JE01558	1992	Analysis of volcanic surface morphology on Venus from comparison of Arecibo, Magellan, and terrestrial airborne radar data
[RD-32]	Campbell, B.A., B.R. Hawke, and D.B. Campbell, J. Geophys. Res., E01001, doi:10.1029/2008JE003253	2009	Surface morphology of domes in the Marius Hills and Mons Rumker regions of the Moon from Earth-based radar data,
[RD-33]	Carter, L.M., B.A. Campbell, B.R. Hawke, D.B. Campbell, and M.C. Nolan, , J. Geophys. Res., 114, doi:10.1029/2009JE003406	2009	Radar remote sensing of pyroclastic deposits in the Mare Serenitatis and Mare Vaporum regions of the Moon
[RD-34]	Campbell, B.A., , Icarus, 112, 187-203, doi.org/10.1006/icar.1994.1177	1994	Merging Magellan emissivity and SAR data for analysis of Venus surface dielectric properties
[RD-35]	Campbell, B.A., and P.G. Rogers, J. Geophys. Res., 99, 21,153-21,171, doi.org/10.1029/94JE01862	1994	Bell Regio, Venus: Integration of remote sensing data and terrestrial analogs for geologic analysis
[RD-36]	Campbell, B.A., G.A. Morgan, J.L. Whitten, L.M. Carter, D.B. Campbell, and L.S. Glaze, J. Geophys. Res., 122, 1580-1596, doi:10.1002/2017JE005299.	2017	Pyroclastic flow deposits on Venus as indicators of renewed magmatic activity
[RD-37]	Whitten, J.L., and B.A. Campbell, Geology, 44, 519-512, doi:10.1130/G37681.1, 2016	2016	Recent volcanic resurfacing of Venusian craters
[RD-38]	Morgan, G.A., B.A. Campbell, L.M. Carter, and J.J. Plaut, Geophys. Res. Letters, 42, 7336-7342, doi:10.1002/2015GL065017.	2015	Evidence for the episodic erosion of the Medusae Fossae Formation within the youngest volcanic province on Mars
[RD-39]	Campbell, B.A., N.E. Putzig, L.M. Carter, G.A. Morgan, R.J. Phillips, and J.J. Plaut, J. Geophys. Res., vol. 118, 436-450, doi:10.1002/jgre.20050	2013	Roughness and near-surface density of Mars from SHARAD radar echoes
[RD-40]	Carter, L.M., B.A. Campbell, J.W. Holt, R.J. Phillips, N.E. Putzig, S. Mattei, R. Seu, and C.H. Okubo, Geophys. Res. Letters, 36, doi:10.1029/2009GL040749.	2009	Dielectric properties of lava flows west of Ascraeus Mons, Mars
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[RD-44]	Dumoulin et al., ", Journal of Geophysical Research: Planets, doi:10.1002/2016JE005249	2017	Tidal constraints of the interior of Venus
[RD-45]	Rolf et al., Icarus 313, 107-123, doi.org/10.1016/j.icarus.2018.05.014	2018	Inferences on the mantle viscosity structure and the post-overturn evolutionary state of Venus
[RD-46]	Konopliv and Yoder, Geophysical Research Letters, 23.14, 1857-1860, doi.org/10.1029/96GL01589	1996	Venusian k_2 tidal Love number from Magellan and PVO tracking data
[RD-47]	Rivoldini et al., Icarus, 213, 451-472, doi.org/10.1016/j.icarus.2011.03.024	2011	Geodesy constraints on the interior structure and composition of Mars
[RD-48]	C.C. Tsang et al, GRL, vol. 37, iss 2, doi.org/10.1029/2009GL041770	2010	Correlations between cloud thickness and sub-cloud water abundance on Venus
[RD-49]	Y.J. Lee et al., Icarus, vol. 253, 1-15, doi.org/10.1016/j.icarus.2015.02.015	2015	Long-term variations of the UV contrast on Venus observed by the Venus Monitoring Camera on board Venus Express
[RD-50]	Yamazaki et al., Earth Planets and Space, 70, article 23, doi.org/10.1186/s40623-017-0772-6	2018	Ultraviolet imager on Venus orbiter Akatsuki and its initial results
[RD-51]	E. Marcq et al., Icarus, vol. 335, 113368, doi.org/10.1016/j.icarus.2019.07.002	2020	Climatology of SO2 and UV absorber at Venus' cloud top from SPICAV-UV nadir dataset
[RD-52]	K.-L. Jessup et al., Icarus, vol. 335, 113372, doi.org/10.1016/j.icarus.2019.07.006	2020	On Venus' cloud top chemistry, convective activity and topography: A perspective from HST
[RD-53]	Marcq et al., Nature Geoscience, 6, pages 25–28, doi.org/10.1038/ngeo1650	2012	Variations of sulphur dioxide at the cloud top of Venus's dynamic atmosphere

[RD-54]	Jessup et al., Icarus, 258, 309-336, doi.org/10.1016/j.icarus.2015.05.027	2015	Coordinated Hubble Space Telescope and Venus Express Observations of Venus' upper cloud deck
[RD-55]	T. Encrenaz et al., A&A, 543, A153, doi.org/10.1051/0004-6361/201219419	2012	HDO and SO_2 thermal mapping on Venus: evidence for strong SO2 variability
[RD-56]	T. Encrenaz et al., A&A, 595, A74, doi.org/10.1051/0004-6361/201628999	2016	HDO and SO2 thermal mapping on Venus III. Short-term and long-term variations between 2012 and 2016
[RD-57]	T. Encrenaz et al., A&A, 623, A70, doi.org/10.1051/0004-6361/201833511	2019	HDO and SO2 thermal mapping on Venus IV. Statistical analysis of the SO2 plumes
[RD-58]	N.T. Mueller et al., Nature Physics 12(8), DOI:10.1038/nphys3733	2017	In situ observations of waves in Venus's polar lower thermosphere with Venus Express aerobraking.
[RD-59]	J. Helbert et al., SPIE Proceedings Volume 10765, Infrared Remote Sensing and Instrumentation XXVI; 107650D, doi.org/10.1117/12.2320112	2018	The Venus Emissivity Mapper (VEM): obtaining global mineralogy of Venus from orbit
[RD-60]	L. Cottereau et al., A&A, volume 531m A45, doi.org/10.1051/0004-6361/201116606	2011	The various contributions in Venus rotation rate and LOD
[RD-61]	C. Dumoulin et al., JGR Planets, vol. 122, iss 6, 1338-1352, doi.org/10.1002/2016JE005249	2017	Tidal constraints on the interior of Venus
[RD-62]	M.A. Ivanov et al., Solar System Research, vol 49, 1-11, doi.org/10.1134/S0038094615010025	2015	History of the long-wavelength topography of Venus
[RD-63]	Rosenblatt et al., Icarus, Vol.217, Issue 2, p. 831, doi.org/10.1016/j.icarus.2011.06.019	2012	First ever in situ observations of Venus' polar upper atmosphere density using the tracking data of the Venus Express Atmospheric Drag Experiment (VExADE)
[RD-64]	Muller-Wodarg et al., Nature Physics, Vol. 12, Issue 8, pp.767-771, doi.org/10.1038/nphys3733	2016	In situ observations of waves in Venus's polar lower thermosphere with Venus Express aerobraking
[RD-65]	M. Persson, Master Thesis Umeå University, Sweden, ORCID iD: 0000-0003-3497-3209. Available at: http://umu.diva-	2005	Escape to space or return to Venus: ion flows measured by Venus express

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[RD-67]	G.M. Keating et al., Science, vol. 279, no 5357, https://www.science.org/doi/10.1126/science.279.5357.1672.	1998	The Structure of the Upper Atmosphere of Mars: In Situ Accelerometer Measurements from Mars Global Surveyor.
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[RD-69]	Forbes et al., Journal of Geophy. Research: Space Physics, Vol. 125, Issue 9,	2020	Solar Tides in the Middle and Upper Atmosphere of Mars
[RD-70]	Crowley et al., Journal of Spacecraft and Rockets, Vol. 44, No. 6., doi.org/10.2514/1.28625	2007	Mars Thermospheric Winds from Mars Global Surveyor and Mars Odyssey Accelerometers
[RD-71]	Baird et al., Journal of Spacecraft and Rockets, Vol. 44, No. 6, doi.org/10.2514/1.28588	2007	Zonal Wind Calculations from Mars Global Surveyor Accelerometer and Rate Data
[RD-72]	S. Robert et al., Vol. 15, EPSC2021-678, 2021, European Planetary Science Congress. doi.org/10.5194/epsc2021-678	2021	Detecting Venus' volcanic gas plumes with VenSpec-H
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[RD-75]	Ehrenreich, D., et al. Astronomy and Astrophysics, vol. 537, doi:10.1051/0004-6361/201118400	2012	Transmission spectrum of Venus as a transiting exoplanet
[RD-76]	Harris, A.J., Blake, S., Rothery, D.A., and Stevens, N.F., ", Journal of Geophysical Research: Solid Earth. 102(B4), 7985-8003.	1997	A chronology of the 1991 to 1993 Mount Etna eruption using advanced very high resolution radiometer data: Implications for real-time thermal volcano monitoring
[RD-77]	Harris, A.J., Flynn, L.P., Keszthelyi, L., Mouginis-Mark, P.J., Rowland,	1998	Calculation of lava effusion rates from Landsat TM data.

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[RD-80]	Sioris, C. E., Malo, A., McLinden, C. A., and D'Amours, R., Geophys. Res. Lett., 43, 7694–7700, doi:10.1002/2016GL069918.	2016	Direct injection of water vapor into the stratosphere by volcanic eruptions.
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[RD-82]	Pettengill, G. Het al., J . Geophys. Res., 85, 8261- 8270.	1980	Pioneer Venus radar results: altimetry and surface properties.
[RD-83]	Alexandrov, Yu. N., et al., Problems of Today's Radio-Engineering and Electronics, pp. 46-69, Nauka, Moscow.	1987	The creation of a Venus radar map
[RD-84]	G.H. Pettengill et al., Science, Vol 272, Issue 5268, pp. 1628-1631, DOI: 10.1126/science.272.5268.1628	1996	Electrical Properties of the Venus Surface from Bistatic Radar Observations.
[RD-85]	Anderson F. S. and Smrekar S. E., JGR, VOL. 111, E08006, doi:10.1029/2004JE002395	2006	Global mapping of crustal and lithospheric thickness on Venus
[RD-86]	James P. B., Zuber M. T. and Phillips R. J., , JGR Planets, VOL. 118, 859–875, doi:10.1029/2012JE004237	2013	Crustal thickness and support of topography on Venus
[RD-87]	Jimenez-Diaz A., Ruiz J., Kirby J. F. Romeo I., Tejero R. and Capote R., , Icarus, 215-231.	2015	Lithospheric structure of Venus from gravity and topography
[RD-88]	Yang A., Huang J. and Wei D., PSS, 129, 24-31, 2016.	2016	Separation of dynamic and isostatic components of the Venusian gravity and topography and determination of the crustal thickness of Venus.
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[RD-91]	Titov et al., Icarus, Vol. 217, pages 682-701, https://doi.org/10.1016/j.icarus.2011.06.020	2012	Morphology of the cloud tops as observed by the Venus Express Monitoring Camera.
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[RD-94]	Titov, D. V. Et al., Space Science Reviews, vol. 214, no. 8. doi:10.1007/s11214-018-0552-z	2018	Clouds and Hazes of Venus.
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[RD-97]	E. Marcq et al., Icarus, Vol. 211, Pages 58-69, https://doi.org/10.1016/j.icarus.2010.08.021	2011	An investigation of the SO2 content of the venusian mesosphere using SPICAV-UV in nadir mode
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[RD-99]	Lorenz, Ralph D, Progress in earth and planetary science 5.1 (2018): 1-25.	2018	Lightning detection on Venus: a critical review.
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