

Exploration of Jupiter References & bibliography

1. Books

1.1 Books specifically about Jupiter

Fran Bagenal, Timothy E. Dowling & William B. McKinnon (eds), *Jupiter – The planet, satellites and magnetosphere*, Cambridge planetary science, Cambridge University Press, 2004

Michael Hanlon, *The Worlds of Galileo: The Inside Story of NASA's Mission to Jupiter*, St Martin's Press, 2001

Thomas Hockey, *Galileo's Planet: Observing Jupiter before Photography*, Institute of Physics, 1999

Michael Meltzer, *Mission to Jupiter: A History of the Galileo Project*, NASA SP-2007-4231

John H Rogers (ed), *Jupiter, 1977-1981: The Voyager Years – Reports of the Jupiter Section*, Memoirs of the BAA, 43:3 (1992)

John R Spencer & Jacqueline Mitton (eds), *The Great Comet Crash: The Collision of Comet Shoemaker-Levy 9 and Jupiter*, Cambridge UP, 1995

1.2 Books with some coverage of Jupiter

1.2.1 General reference

Dr E Julius Dasch, *Oxford Dictionary of Space Exploration*, Oxford UP, 2005

J K Davies, *Space Exploration*, Chambers Encyclopedic Guides, 1992

Ben Evans, *NASA's Voyager Missions: Exploring the Outer Solar System and Beyond*, Springer-Praxis, 2nd edition, 2004, 2022

Katharina Lodders & Bruce Fegley Jr., *The Planetary Scientist's Companion*, Oxford UP, 1998

Patrick Moore, *Atlas of the Universe*, Philip/Reed, 1994

Patrick Moore, *The Guinness Book of Astronomy Facts and Feats*, Guinness Superlatives, 1983, pp104 – 117

Patrick Moore & Robin Rees, *Patrick Moore's Data Book of Astronomy*, Cambridge UP, 2011

Paul Murdin & Margaret Penston (eds), *The Canopus Encyclopedia of Astronomy*, Canopus, 2004

Gerald North, *Astronomy explained*, Springer, 1997, pp153 – 165

Ian Ridpath (ed), *Norton's Star Atlas and Reference Handbook*, 20th Edition, Pi Press/Pearson, 2004, pp82 – 84

Paul R Weissman, Lucy-Ann McFadden & Torrence V Johnson, *Encyclopedia of the Solar System*, Academic Press, 1999

John Woodruff (ed), *Philip's Astronomy Dictionary*, George Philip Ltd/Reed International, 2005

1.2.2 History & historical

Anthony Aveni, *Conversing with the Planets: How Science and Myth Invented the Cosmos*, Kodansha International, 1994

Robert H Baker, *Astronomy: A Textbook for University and College Students*, D van Nostrand Company, 3rd edition, 1938

Robert H Baker, *An Introduction to Astronomy*, D van Nostrand Company, 4th edition, 1952

Edward Grant, *Planets, Stars, & Orbs: The Medieval Cosmos, 1200 – 1687*, Cambridge UP, 1996

David Leverington, *Encyclopedia of the History of Astronomy and Astrophysics*, Cambridge UP, 2013

Patrick Moore, *The Amateur Astronomer*, Lutterworth Press, 1957

R A Proctor, *Other Worlds than Ours: The Plurality of Worlds studied under the light of recent scientific researches*, Longmans, Green & Co, 1886

J B Sidgwick, *The Heavens Above: A Rationale for Astronomy*, Oxford UP, 1948, pp206 – 214

Christopher Walker (ed), *Astronomy Before the Telescope*, BCA/British Museum Press, 1996

1.2.3 Observations

Tony Buick, *How to Photograph the Moon and Planets with Your Digital Camera*, Patrick Moore's Practical Astronomy Series, Springer, 2006

Terence Dickinson & Alan Dyer, *The Backyard Astronomer's Guide*, Firefly Books, 1991, 2001

Peter Grego, *Solar System Observer's Guide*, Philip's, 2005

John B Murray, Observing Jupiter, in James Muirden (ed), *Sky Watcher's Handbook: The Expert Reference Source for the Amateur Astronomer*, W H Freeman & Company, 1993, p107 – 133

Stephen James O'Meara, *Exploring the Solar System with Binoculars*, Cambridge UP, 2010

John Rogers, Jupiter, in *The British Astronomical Association Observing Guide*, BAA, 2011, pp25-28

Robin Scagell & David Frydman, *Stargazing with Binoculars*, Philip's, 2007

1.2.4 Exploration & current knowledge

J Kelly Beatty, Carolyn Collins Petersen & Andrew Chaikin, *The New Solar System*, Sky Publishing Corp/Cambridge UP, 4th edition, 1999

G A Briggs & F W Taylor, *The Cambridge Photographic Atlas of the Planets*, Cambridge UP, 1982/Book Club Associates, 1984

T Encrenaz, J-P Bibring, & M Blanc, (Translated by S Dunlop), *The Solar System*, Springer, 2nd edition, 1995

Mark A Garlick, *The Story of the Solar System*, Cambridge UP, 2002

Ronald Greeley & Raymond Batson, *The Compact NASA Atlas of the Solar System*, Cambridge UP, 1997

John S Lewis, *Physics and Chemistry of the Solar System*, Academic Press, 1997

Richard S Lewis, *The Illustrated Encyclopedia of Space Exploration: A comprehensive history of space discovery*, Salamander Books, 1983

Katharina Lodders & Bruce Fegley, Jr, *Chemistry of the Solar System*, RSC Publishing, 2011

Neil McBride & Iain Gilmour (eds), *An Introduction to the Solar System*, The Open University/Cambridge UP, 2004

Patrick Moore, *Mission to the Planets: The illustrated story of the exploration of our Solar System*, Cassell, 2nd edition, 1995

Michael Rycroft (ed), *The Cambridge Encyclopedia of Space*, Cambridge UP, 1990

Richard P Wayne, *Chemistry of atmospheres*, Oxford UP, 3rd edition, 2000

1.2.5 Europa & astrobiology

Paul Clancy, Andre Brack & Gerda Horneck, *Looking for Life Searching the Solar System*, Cambridge UP, 2005

Iain Gilmour & Mark Sephton (ed), *An Introduction to Astrobiology*, The Open University/Cambridge UP, 2004

Bruce Jakosky, *The Search for Life on other Planets*, Cambridge UP, 1998

Manasvi Lingam & Avi Loeb, *Life in the Cosmos: From Biosignatures to Technosignatures*, Harvard UP, 2021

Woodruff T Sullivan III and John A Baross (eds), *Planets and Life: The Emerging Science of Astrobiology*, Cambridge UP, 2007

2. Papers & articles (including specific webpage articles)

2.1 History & Historical

American Physical Society, This Month in Physics History: May 1664: Hooke vs. Cassini: Who Discovered Jupiter's Red Spot?, *APS News*, May 2020 (Volume 29, Number 5); <https://www.aps.org/publications/apsnews/202005/history.cfm>, found 30 October 2022

E M Antoniadi, On the Markings of the IIIrd Satellite of Jupiter in Transit across the Planet, *JBAA*, 48:7, May 1938, 275-281

W F Denning, Early History of the Great Red Spot on Jupiter, *MNRAS*, 59 (1899), pp574-584; <https://adsabs.harvard.edu/full/1899MNRAS..59..574D>, found 30 October 2022

Owen Gingerich and Albert van Helden, How Galileo Constructed the Moons of Jupiter, *Journal for the History of Astronomy*, 42: 2, May 2011, No 147, pp259-264

J J O'Connor and E F Robertson, Gan De, *MacTutor*, December 2003; https://mathshistory.st-andrews.ac.uk/Biographies/Gan_De/, found 30 October 2022

A Stanley Williams, Periodic variation of the two equatorial belts of Jupiter, *MNRAS*, 59 (1899), pp376-380ff

2.2 Exploration & current knowledge

Astronomy Now, News Update: Juno takes a fresh look at Europa, *Astronomy Now*, 36:11, November 2022, p16

Astronomy Now, Juno mission extended, will now study Jupiter's moons and rings, ; <https://astronomynow.com/2021/02/26/juno-mission-extended-will-now-study-jupiters-moons-and-rings/>, found 30 October 2022

Astronomy Now, Picture This: Jupiter's JWST portrait, *Astronomy Now*, 36:10, October 2022, pp6-7

Astronomy Now, Picture this: A sea of storms, *Astronomy Now*, 36:9, September 2022, pp6-7

Astronomy Now, Picture this: A planet-sized moon, *Astronomy Now*, 36:3, March 2022, pp10-11

Astronomy Now, Picture this: Catching up with events in the outer Solar System, *Astronomy Now*, 36:2, February 2022, p8

Astronomy Now, Picture this: A pimple on Jupiter, *Astronomy Now*, 36:1, January 2022, p7

Astronomy Now, A mysterious acceleration in the Great Red Spot's wind speed, *Astronomy Now*, 35:11, November 2021, p22

Astronomy Now, Aurorae explain why Jupiter is so hot, *Astronomy Now*, 35:9, September 2021, p18

Astronomy Now, Water found in atmosphere of Jupiter's moon, *Astronomy Now*, 35:9, September 2021, p18

Astronomy Now, Introducing Jupiter's meteorological beast, *Astronomy Now*, 35:5, May 2021, p24

Astronomy Now, Picture this: An octagon of storms/Jupiter's maelstrom/A cloudy day on Jupiter, *Astronomy Now*, 35:2, February 2021, pp10-11

Astronomy Now, Closest brown dwarfs look just like Jupiter, *Astronomy Now*, 35:2, February 2021, p20

Astronomy Now, Do some of Europa's plumes come from its icy crust, *Astronomy Now*, 35:1, January 2021, p18

BBC Sky at Night Magazine, Eye on the Sky: Perfect storm, *BBC Sky at Night Magazine*, February 2022, p9

BBC Sky at Night Magazine, Eye on the Sky: Jupiter takes a hit, *BBC Sky at Night Magazine*, November 2021, p8

BBC Sky at Night Magazine, Eye on the Sky: Jupiter in a new light, *BBC Sky at Night Magazine*, July 2021, pp6-7

BBC Sky at Night Magazine, Bulletin: Great Red Spot snacks on smaller storms, *BBC Sky at Night Magazine*, May 2021, p13

BBC Sky at Night Magazine, Bulletin: Europa's plumes could come from its crust, *BBC Sky at Night Magazine*, May 2021, p14

BBC Sky at Night Magazine, Eye on the Sky: Jupiter alight, *BBC Sky at Night Magazine*, July 2020, pp6-7

S. J. Bolton and the Juno Science Team, The Juno Mission, in C. Barbieri, S. Chakrabarti, M. Coradini & M. Lazzarin, (eds.), *Galileo's Medicean Moons: their impact on 400 years of discovery*, Proceedings IAU Symposium No. 269, 2010, International Astronomical Union, 2010, pp92-100; doi:10.1017/S1743921310007313, https://www.researchgate.net/publication/231973849_The_Juno_Mission; found 30 October 2022

Emma Bunce, Going to Ganymede, *Astronomy & Geophysics*, 63:3, June 2022, pp3.12-3.17

Joseph A Burns, Douglas P Hamilton & Mark Showalter, Bejeweled Worlds, in John Rennie et al (eds), *New Light on the Solar System, Scientific American Special Edition*, 13:3, 2003, pp74 – 83

Keith Cooper, Jupiter's Great Shrinking Spot, *Astronomy Now*, 36:10, October 2022, pp42-43

Keith Cooper, Return to Europa, *Astronomy Now*, 36:9, September 2022, pp44-45

Lewis Dartnell, Cutting Edge: Fireball over Jupiter outshines the Sun, *BBC Sky at Night Magazine*, September 2022, p16

Lewis Dartnell, Cutting Edge: Jupiter's asteroid swarms, *BBC Sky at Night Magazine*, July 2022, p16

Lewis Dartnell, Cutting Edge: The winds of Jupiter, *BBC Sky at Night Magazine*, January 2022, p16

Lewis Dartnell, Cutting Edge: Getting under Europa's skin, *BBC Sky at Night Magazine*, November 2021, p16

Lin Edwards, Jupiter has lost one of its cloud stripes, *PhysOrg.com*, 14 May 2010; Jupiter has lost one of its cloud stripes (2010, May 14) retrieved 30 October 2022 from <https://phys.org/news/2010-05-jupiter-lost-cloud-stripes.html>

ESA, Jupiter's mysterious flashes and missing cloud belts, ESA website, 17 June 2010; https://www.esa.int/Science_Exploration/Space_Science/Jupiter_s_mysterious_flashes_and_missing_cloud_belts, found 30 October 2022

Ben Evans, How the Juno spacecraft uncovered Jupiter's secrets, *Astronomy*, August 2022; <https://astronomy.com/magazine/news/2022/08/how-the-juno-spacecraft-uncovered-jupiters-secrets>, found 30 October 2022

Will Gater, Fire in the Jovian Sky, *BBC Sky at Night Magazine*, July 2020, pp26-31

William Harwood, Juno and our changing view of Jupiter, *Astronomy Now*, 35:7, July 2021, pp28-33

R. Hueso, M. Delcroix, A. Sánchez-Lavega, S. Pedranghelu, G. Kernbauer, J. McKeon, A. Fleckstein, A. Wesley, J. M. Gómez-Forrellad, J. F. Rojas, and J. Juaristi, Small impacts on the giant planet Jupiter, *Astronomy & Astrophysics*, A&A 617, A68 (2018); <https://doi.org/10.1051/0004-6361/201832689>, found 31 October 2022

Jet Propulsion Laboratory (JPL), NASA's Juno Spacecraft Captures Closest View of Jupiter's Icy Moon Europa in 22 Years, *SciTechDaily*, September 30, 2022; <https://scitechdaily.com/nasas-juno-spacecraft-captures-closest-view-of-jupiters-icy-moon-europa-in-22-years/>, found 30 October 2022

Torrence V Johnson, The Galileo Mission to Jupiter and its Moons, in John Rennie et al (eds), *New Light on the Solar System, Scientific American Special Edition*, 13:3, 2003, pp54 – 63

Jane Houston Jones, Jupiter: Past and Present Spots/Impacts, *Jane.Whiteoaks.com*, June 5, 2010; <http://jane.whiteoaks.com/2010/06/05/past-and-present-jupiter-impacts/>, found 30 October 2022

Pete Lawrence, Giants at opposition, *BBC Sky at Night Magazine*, August 2021, pp66-71

Lunar and Planetary Institute, Planetary Science Mission Updates: Where Are They Now?, *Lunar and Planetary Information Bulletin*, Issue 170, October 2022, pp2-9; <https://www.lpi.usra.edu/publications/newsletters/lpib/new/wp-content/uploads/2022/10/lpib-issue-170.pdf>, retrieved 1 November 2022

James MacDonald, The Secrets of Jupiter's Incredible Great Red Spot, *JSTOR Daily*, August 17, 2017; <https://daily.jstor.org/the-secrets-of-jupiters-incredible-great-red-spot/>, found 30 October 2022

Philip Marcus, Jupiter's Great Red Spot may not be disappearing, *Astronomy*, November 26, 2019; <https://astronomy.com/news/2019/11/jupiters-great-red-spot-is-not-disappearing>, found 30 October 2022

Katrina Miller, Jupiter's Great Red Spot Is Surprisingly Deep, *Scientific American*, October 28, 2021; <https://www.scientificamerican.com/article/jupiters-great-red-spot-is-surprisingly-deep/>, found 30 October 2022

Robert T Pappalardo, James W Head & Ronald Greeley, The Hidden Ocean of Europa, in John Rennie et al (eds), *New Light on the Solar System, Scientific American Special Edition*, 13:3, 2003, pp64 – 73

Ezzy Pearson, Bulletin: Juno reveals the depths of Jupiter's storms, *BBC Sky at Night Magazine*, January 2022, p11

Ezzy Pearson, Juno's Jupiter journey continues, *BBC Sky at Night Magazine*, August 2021, pp60-65

Jordan Rice, What's next for Jupiter missions after Juno?, Astronomy.com, 1 July 2016; found online 29 October 2022

Amy A. Simon, Fachreddin Tabataba-Vakili, Richard Cosentino, Reta F. Beebe, Michael H. Wong, and Glenn S. Orton, Historical and Contemporary Trends in the Size, Drift, and Color of Jupiter's Great Red Spot, *The Astronomical Journal*, 155:151 (13pp), 2018 April; <https://doi.org/10.3847/1538-3881/aaae01>, found 30 October 2022

Sky & Telescope, NASA's Juno mission has obtained measurements that finally say just how deep the Great Red Spot goes, *Sky & Telescope*; <https://skyandtelescope.org/astronomy-news/jupiters-great-red-spot-runs-deep/>, found 30 October 2022

Southwest Research Institute (SwRI), SwRI-led Juno mission to Jupiter delivers first science results, Press Release, May 25, 2017; <https://www.swri.org/press-release/swri-led-juno-mission-jupiter-delivers-first-science-results>, found 30 October 2022

Universe Today, The gas giant Jupiter, *PhysOrg.com*, August 26, 2015; The gas giant Jupiter (2015, August 26) retrieved 30 October 2022 from <https://phys.org/news/2015-08-gas-giant-jupiter.html>

University of Leicester, Juno spacecraft peers deep into Jupiter's colorful belts and zones, *PhysOrg.com*, October 28, 2021; Juno spacecraft peers deep into Jupiter's colorful belts and zones (2021, October 28) retrieved 30 October 2022 from <https://phys.org/news/2021-10-juno-spacecraft-peers-deepjupiter.html>

3. Websites

Summary of Jupiter missions: <https://www.planetary.org/space-missions/every-jupiter-mission>

3.1 Past Jupiter missions (in chronological order)

3.1.1 Pioneer

- Pioneer 10: <https://solarsystem.nasa.gov/missions/pioneer-10/in-depth/>
- Pioneer 11: <https://solarsystem.nasa.gov/missions/pioneer-11/in-depth/>

3.1.2 Voyager

- NASA JPL: <https://voyager.jpl.nasa.gov/>

3.1.3 Galileo

- <https://nssdc.gsfc.nasa.gov/planetary/galileo.html>

3.1.4 New Horizons

- NASA: https://www.nasa.gov/mission_pages/newhorizons/main/index.html
- Mission website: <http://pluto.jhuapl.edu/>
- Jupiter encounter press kit: http://pluto.jhuapl.edu/News-Center/Resources/Press-Kits/011607_JupiterPressKit.pdf

3.2 Current missions

3.2.1 Juno

- NASA: https://www.nasa.gov/mission_pages/juno/main/index.html
- NASA JPL: <https://www.jpl.nasa.gov/missions/juno>
- Mission website: <https://www.missionjuno.swri.edu/>
- Planetary Society: <https://www.planetary.org/space-missions/juno>
- University of Leicester: <https://le.ac.uk/juno/juno-mission>

3.3 Future & proposed missions (in possible chronological order)

3.3.1 Jupiter Icy Moons Explorer (JUICE)

- <https://sci.esa.int/web/juice>
- https://www.esa.int/Science_Exploration/Space_Science/Juice

3.3.2 Europa Clipper

- <https://europa.nasa.gov/mission/about/>
- <https://www.jpl.nasa.gov/missions/europa-clipper>