

A mix of novels and short-stories to consider:

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Jupiter (and its Satellites)

Baxter, Stephen "Reality Dust" in *Resplendent* (2006, Gollanz). Some of this complex novella takes place on Jupiter's moon Callisto, in the giant impact feature called Valhalla, where an escaped Earth scientist has discovered a fascinating form of life in the ice.

Benford, Gregory *Against Infinity*. 1983, Pocket Books. About terraforming Ganymede and trying to survive in that harsh environment.

Benford, Gregory "The Future of the Jovian System" in Preiss, Byron, ed. *The Planets*. 1985, Bantam. Story about settling the moons of Jupiter and exploiting their resources.

Benford, Gregory *The Jupiter Project*. A coming-of-age story with a Jupiter setting.

Clarke, Arthur *2010*. 1984, Ballantine. Sequel to *2001*, featuring life under the ice of Europa, Von Neumann probes, and more.

Moffitt, Donald *The Jupiter Theft*. 1977, Ballantine. Aliens left homeless by a supernova explosion come to steal Jupiter's hydrogen for spaceship fuel.

Pohl, Fred & Carol *Jupiter*. 1973, Ballantine. A varied collection of stories about the giant planet, not all based on good science.

Reynolds, Alastair "A Spy in Europa" in *Galactic North* (2007, Ace). Fascinating story of genetically modified life that can survive in the oceans under the ice of Jupiter's moon Europa.

Stewart, Ian & Cohen, Jack *Wheeler*. 2000, Aspect/Warner. A mathematician and a biologist have written a novel that suggests an intelligent life form that can live in Jupiter's atmosphere.

Swanwick, Micheal "The Very Pulse of the Machine" in Dozois, W. & Williams, S., eds. *Isaac Asimov's Solar System*. 1999, Ace. An explorer on Io may or may not be discovering a global form of life powered by electrical forces. Good portrayal of Io.

Life Elsewhere (Plausible Examples)

Anderson, Kevin & Beason, Doug "Reflections in a Magnetic Mirror" in *Full Spectrum*, ed. L. Aronica & S. McCarthy (1988, Bantam). A plasma physicist and science writer explore a life-form that can exist within plasma anomalies, but on a different time-scale.

Baxter, Stephen "Cilia-of-Gold" in Dozois, W. & Williams, S., eds. *Isaac Asimov's Solar System*. 1999, Ace (and in *Vacuum Diagrams*, 1997, Harper Prism). Suggests a very clever ancient form of life that adapted (after crashing there) to live on Mercury.

Baxter, Stephen "Sunpeople" in *Vacuum Diagrams*. 1997, Harper Prism. A human expedition on a Kuiper Belt object finds a life-form made of ice with liquid helium for circulation.

Baxter, Stephen "Gossamer" in *Vacuum Diagrams*. 1997, HarperCollins. Suggests a life form that can thrive on and go between Pluto and Charon at perihelion.

Benford, Gregory *In the Oceans of Night*. 1977, Dell. Physicist Benford postulates a universe in which advanced machine intelligences confront (and often overwhelm) organic life. The story continues in *Across the Sea of Suns* (1984, Bantam) and in his novels that take place at the galactic center (*Great Sky River*, 1987, Bantam; *Tides of Light*, 1989, Bantam; *Furious Gulf*, 1994, Bantam; *Sailing Bright Eternity*, 1995, Bantam.)

Benford, Gregory "Dance to Strange Musics" in *Year's Best Science Fiction 4*, ed. David Hartwell. 1999, Eos/HarperCollins. First expedition to Alpha Centauri finds a planet-wide, collective life form that takes energy from pizo-electric effects enhanced by tidal stresses.

Clement, Hal *Mission of Gravity*. 1962, Pyramid. Life on a massive, rapidly rotating planet. Clement is a high-school science teacher. (A new edition of all his stories about this planet was issued in 2002 by TOR, under the title *Heavy Planet*.)

Clement, Hal "Uncommon Sense" in *Space Lash*. 1966, Dell. About life-forms with liquid metal blood that "see" by smell.

Crichton, Michael *The Andromeda Strain*. 1969, Dell. Doctors & scientists battle an extra-terrestrial microorganism; by a doctor.

Hoyle, Fred *The Black Cloud*. 1957, Signet. Intelligence develops in interstellar dust clouds which can move from star to star.

LeGuin, Ursula *The Left Hand of Darkness*. 1969, Ace. Award-winning story of contact with aliens who are alternately one sex and then the other.

Reynolds, Alastair *Pushing Ice*. 2005, Ace. Complex novel that includes a huge interstellar zoo that captures intelligent species; describes several intriguing alien races. The zoo, the story, suggests exists because its ancient builders, finding intelligent life rare and fragile, wanted to find an artificial way of bringing civilizations together.

Sawyer, Robert *Calculating God*. 2000, Tor. Suggests that most alien species will choose to upload themselves into a computer reality rather than deal with their own hostility and the isolation of the universe.

Sawyer, Robert *Illegal Alien*. 1997, Ace. Aliens with quadrilateral symmetry and the ability to hibernate for very long times come to Earth, to wipe out any threat to them while they sleep for 400,000 years.

Sheckley, Robert "Specialist" in Keyes, N., ed. *Contact*. 1963, Paperback Library. Proposes the idea that life in the universe is all specialized by function, except on Earth.

Sheffield, Charles *Between the Strokes of Night*. 1985, Baen Books. Proposes a life-form that can thrive in intergalactic space.

Stewart, Ian & Cohen, Jack *Wheelers*. 2000, Aspect/Warner. A mathematician and a biologist have written a novel that suggests an intelligent life form that can live in Jupiter's atmosphere.

Swanwick, Michael "Slow Life" in Hartwell, D, ed. *Best SF 8*. 2003, Eos. Suggests a form of life that can survive deep under Titan's seas.

Tiptree, James "Love is the Plan the Plan is Death" in Goldin, Stephen, ed. *The Alien Condition*. 1973, Ballantine. Haunting, complex story of a truly alien life-form.

Varley, John *The Ophiuchi Hotline*. 1977, Dell. Ambitious novel about interstellar communication and the idea of a struggle between life-forms that develop on terrestrial and jovian planets throughout the universe.