

Moon Globe

- This is a 12 inch globe of the Moon. **On the same scale** a globe of **Earth** would have to be **44 inches** in diameter and 110 feet away. On the same scale, a globe of **Mars** would be **23 inches** in diameter, ranging from 3 to 20 miles away.
- While the Moon is smaller than Earth, its total **surface area** is as big as North and South America together, or roughly **four times the size of the United States, Alaska included**. For a local comparison, the Moon's "Sea of Crises", (red push pin), is comparable in area to Wisconsin plus Michigan's Upper Peninsula.
- The Moon's loose powdery soil, called regolith (Greek for **blanket of rock powder**), is composed mostly of **oxygen** and **silicon** compounds with lots of **aluminum, iron, magnesium, calcium, and titanium** - and lesser amounts of other elements - good stuff for making **metals**, metal alloys, **ceramics, glass, glass-composites**, and even **cement** - *no shortage of building products!*
- Data from the recent *Lunar Prospector* Probe reveal **water ice** reserves in permanently shaded craters at both the north and south poles. This ice comes from comets impacting the Moon and includes carbon dioxide ice as well. From this ice we can make water for agriculture and industry, aswell as cryogenic rocket fuel.- *elsewhere, the Moon is very dry!* Even so, 89% of all the water we could ever want is already anywhere on the Moon - in the form of oxygen.
- **Lunar Liquid oxygen** (LUNOX) could refuel our rockets in orbit. Metal, ceramic, and composite structures manufactured on the Moon, or in Earth orbit from lunar materials, can be used to build **space stations**, orbiting factories, even **orbiting resort hotels** that would be **bigger, cheaper** than equivalent items liifted up from Earth, simply because it takes only **1/20th** the fuel and energy to launch the same mass payload from the lighter gravity Moon than it does from Earth.
- The Moon could outfit, fuel, and resupply **missions to Mars** far more cheaply than from Earth, from which we can only afford to go to Mars to picnic (flags and footprints!). From the Moon, we could afford to go to Mars to settle. **The Moon is the key** to the expansion of humanity, and of Earth Life in general, into space.
- The Moon is part of greater Earth. We need to **reclaim it's virgin barren dust with life** from Earth, integrating it into a **greater Earth-Moon economy**, with lunar resources supplying Earth with **abundant clean energy** (solar or clean helium-3 fusion) **to help restore Earth to a greener, cleaner state.**

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