Chilean Copper Mining

Investigating Environmental Impact

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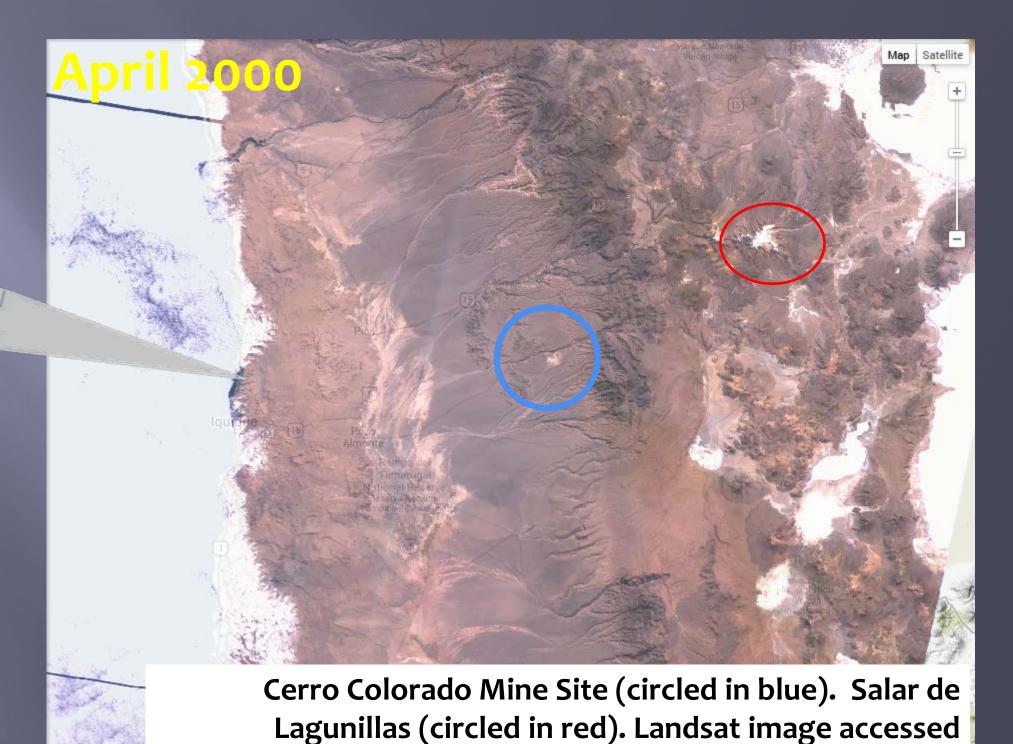


Artist's view of a U.S. Landsat satellite. Credits: NASA.

Open-pit copper mining is criticized for having a universally negative impact on the environment. In my opinion, if proper actions are taken to preserve natural areas, impacts can safely be minimized. I wanted to investigate the Cerro Colorado Mine in Chile and see what I could learn from satellite imagery



Left: Chile, South America, with Iquique's location highlighted in white., 2013



courtesy of Google Earth Engine Trusted Tester Program

In 1981, scientific investigation of the groundwater under Salar de Lagunillas salt flats began as a possible water source for the Cerro Colorado Mine. Providing water for operations is a major issue due to the mine's location in the Atacama Desert in northern Chile, near the city of Iquique. The mine was projected to have a 30-year lifespan and is still in operation.

I was not able to see major changes with the imagery available, however, one can see a larger footprint over time.

