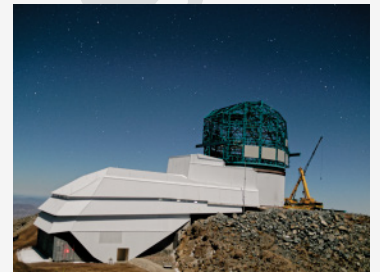


RUBIN OBSERVATORY EQUIPMENT ARRIVES ON THE SUMMIT

Many large pieces of Rubin Observatory equipment were shipped to Cerro Pachón in 2018 and 2019. These items came from facilities and vendors all around the world!

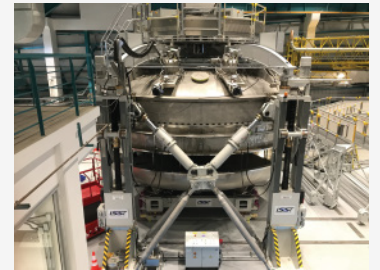
November 2018

The Rubin Observatory Coating Chamber was the first oversized piece of equipment to arrive on the summit. The Coating Chamber, which will be used to coat Rubin Observatory's telescope mirrors, was shipped to Chile from Germany on a ship named BBC Arizona. Upon arrival in the port at Coquimbo on October 23, 2018, it was split into two pieces (top and bottom) for transport by truck to the summit, where it arrived on November 9th, 2018. The Coating Chamber has been installed on the maintenance floor of the Rubin Observatory summit facility building, and was used to coat the Secondary Mirror (M2) in the summer of 2019.



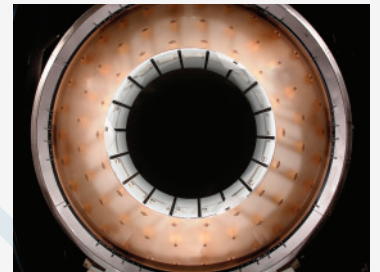
December 2018

The Rubin Observatory Secondary Mirror (M2) reached the summit at the very end of 2018. It was shipped to Chile from Rochester, New York, on a ship named BBC Challenger, which arrived in Chile on December 7, 2018. The M2 was coated with protected silver in the Coating Chamber a few months after its arrival, and is now being stored in its transport container until the telescope is ready for integration of the glass mirror.



May 2019

The Rubin Observatory Primary/Tertiary (M1M3) Mirror safely arrived at the Rubin Observatory summit facility building on Cerro Pachón in Chile in May 2019 after an eight-week journey from Tucson, Arizona, USA, where it was fabricated. The 8.4-meter mirror was the first Rubin Observatory component to be completed. It was cast, ground, and polished to the required specifications over a period of approximately seven years at the Richard F. Caris Mirror Lab at the University of Arizona. The M1M3 traveled to Chile on a ship named BBC Manitoba, arriving at the port of Coquimbo on May 8, 2019.



July 2019

The Rubin Observatory Primary/Tertiary (M1M3) mirror surrogate—the steel structure that will stand in for the glass mirror during testing—was transported from the port at Coquimbo to the summit in two pieces, and arrived at the summit facility site on June 28th, 2019. The M1M3 mirror cell—the steel support structure for the mirror—followed the same route up the mountain, arriving on July 11th. Both the M1M3 mirror surrogate and the M1M3 cell were fabricated in Tucson, Arizona and traveled to Chile from Houston aboard a ship called BBC Newcastle, which arrived in Chile on June 26th, 2019.



September 2019

The Rubin Observatory Telescope Mount Assembly (TMA), built in Spain, reached the summit in September 2019. The structure was disassembled into 26 pieces for transport, and each piece was wrapped in vinyl to protect it during shipping. It traveled to Chile on a ship named BBC Lisa Auerbach, arriving at the port of Coquimbo on September 7th, 2019. The TMA is the structure that will support the telescope mirrors and camera; this complex assembly also includes the many subsystems necessary for operation of the telescope.

