



Fact Sheet

The Quill experimental synthetic aperture radar (SAR) satellite was the world's first imaging radar satellite.

System Names:

- P-40: SAR proof-of-concept program
- QUILL: The satellite

Launch: 21 December 1964 at 11:08am PST from VAFB

Re-entry: 11 January 1965 at 10:27 UTC

SAR unit:

- Designated KP-II: A modified AN/UPQ-102 pulsed-Doppler system

Achievements:

- Azimuth Resolution: 7.5 feet
- Slant Range Resolution: Approximately 80 feet
- Coverage: Approximately 100,000 square miles
- Useful Images: Nearly 80 percent of the area illuminated