

PAS-1R

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|---------------------|-------------------------------------|
| Satellite Name | PAS-1R |
| Spacecraft Design | Boeing 702 |
| Orbital Location | 45 degrees west longitude |
| Launch Date | November 15, 2000 |
| Mission Design Life | 15 Years |
| Launch Vehicle | Ariane 5 |
| Polarization | Linear |
| Beacon Frequencies | |
| Ku-band | 11.699 GHz Circular (RH/LH) |
| C-band Payload | 36 x 36 MHz - 38, 55 Watt Output |
| Ku-band Payload | 36 x 36 MHz - 125, 140 Watt Output |
| C-band Frequencies | |
| Uplink | 5.925 - 6.425 GHz |
| Downlink | 3.700 - 4.200 GHz |
| Ku-band Frequencies | |
| Uplink | 13.750-14.500 GHz |
| Downlink | 10.950-11.200, 11.450-11.950 GHz |
| Coverage | Americas, Caribbean, Europe, Africa |



Profile:

PanAmSat's PAS-1R Atlantic Ocean Region spacecraft, one of the world's largest, most powerful commercial satellites ever launched, employs 72 transponders to offer expanded and enhanced video and data broadcasting as well as broadband Internet services throughout the Americas, the Caribbean, Europe and Africa.

PAS-1R is a Boeing 702 model spacecraft with an advanced communications payload consisting of 36 C-band and 36 Ku-band transponders, each supplying 36 MHz of bandwidth. The spacecraft launched from Arianespace's Guiana Space Center in Kourou, French Guiana aboard an Ariane 5 rocket on November 15, 2000. PAS-1R's deployment was our 17th Ariane launch and the first voyage using the Ariane 5 rocket.

PAS-1R highlights:

- The replacement for PanAmSat's first spacecraft, PAS-1, the world's first commercial international satellite, representing a new era in the international satellite services industry.
- Comprehensive coverage spanning four continents.
- New C-band capacity for Europe and Africa, offering C-band connectivity among Western Europe, Eastern Europe and Africa, in addition to the Americas.

The Legacy of PAS-1R :

On the morning of June 15, 1988, Arianespace technicians across the Guiana Space Center in Kourou, French Guiana were occupied with last-minute preparations for the maiden voyage of the Ariane 4 rocket. The launcher was scheduled to deliver three satellites into geostationary transfer orbit that day, including a spacecraft for collecting meteorological data and another bird for amateur radio users. However, it was the third satellite on the new vehicle that held the attention of the world's communications services industries.

The rockets on the Ariane 4 were ignited at 11:19 a.m. UT, creating more than half-a-million pounds of thrust. PAS-1, the

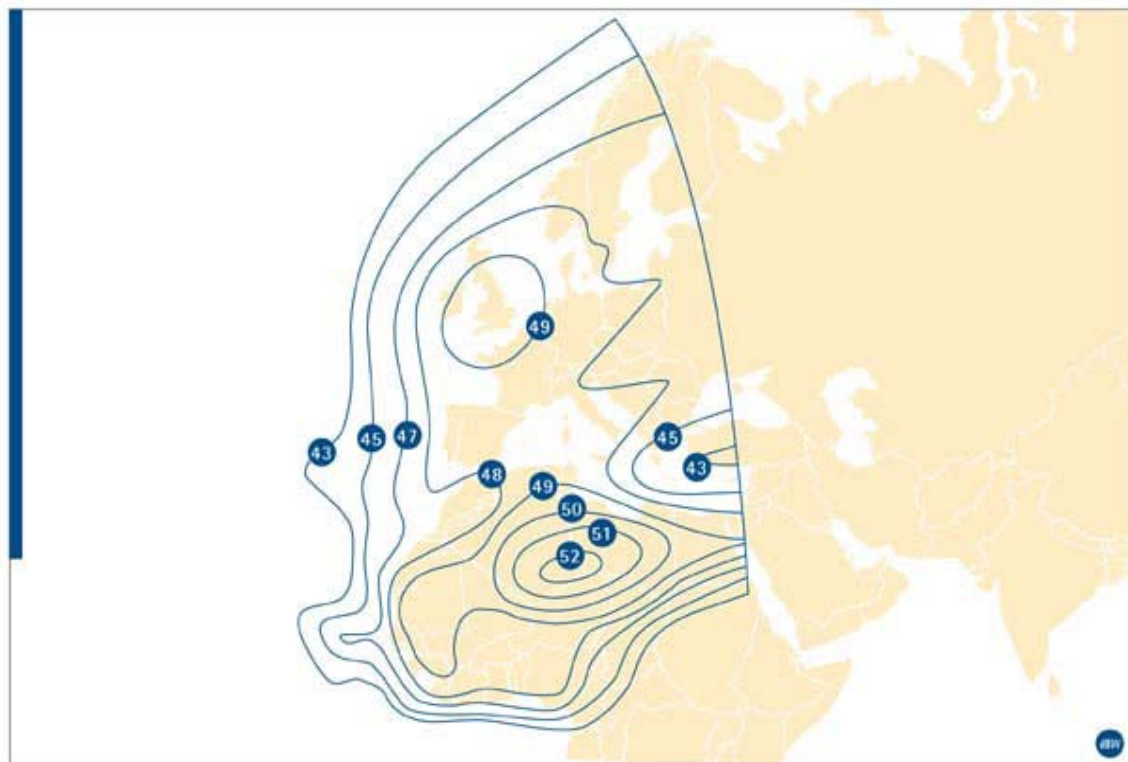
world's first commercial international communications satellite was lifted off the launch pad.

The road to this launch was not easy. In addition to regulations, PanAmSat founder Renee Anselmo faced scared investors and high insurance rates due to a string of launch failures as well as the Challenger disaster in 1986. Mr. Anselmo was forced to invest nearly his entire personal fortune to finance the risky venture. As the scheduled launch date neared, the satellite was only partially insured and only one customer had signed on. A further complication placed Mr. Anselmo in the hospital for coronary bypass surgery a few days before the launch.

However, Mr. Anselmo finally received news that PAS-1 had taken its place in geostationary orbit as the first privately owned commercial international communications satellite. The launch not only guaranteed PanAmSat's existence but also promised the creation of an entirely new commercial international satellite communications services industry. Since then, the competitive market that PanAmSat created has significantly expanded and advanced communications technologies and services worldwide as well as altered the communications regulatory landscape around the globe.

Today, PanAmSat operates a global network and delivers information and entertainment to hundreds of customers around the world. The international satellite communications industry generates billions in annual revenues and is expected to grow substantially in the coming years. With the launch of PAS-1R, PanAmSat ushered in a new era in satellite communications much the way it did 20 years ago, and poised itself to lead that growth as well as the industry it created.

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EUROPE/NORTH AFRICA HORIZONTAL BEAM
Ku-Band

