



Canadian Space Agency
Agence spatiale
canadienne



CASSIOPE

CASSIOPE is a small Canadian satellite designed for a two-year mission. Hexagon-shaped, the spacecraft measures only 167 by 135 centimetres and has two payloads.

With its eight instruments, ePOP is a probe that studies Sun-Earth interaction in the polar upper atmosphere. This advances our understanding of solar storms, which can have a harmful impact on space technologies such as radio communications and satellite navigation.

Cascade is capable of transferring the equivalent of four DVDs of digital files in under 20 seconds. Transmitting up to an impressive 1.2 gigabits per second, this technology is about 240 times faster than the average high-speed Internet connection. In an instant, Cascade can transmit large quantities of information from and to anywhere on Earth.

The development and implementation of the satellite is entrusted to MDA Ltd. of British Columbia in collaboration with Magellan Aerospace of Manitoba. Andrew Yau of the University of Calgary and his team of scientists and engineers from seven Canadian universities and research institutes lead the ePOP instrument design, construction, and operation, working with Canadian industry and international partners.

Take part in the adventure at
www.asc-csa.gc.ca

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