

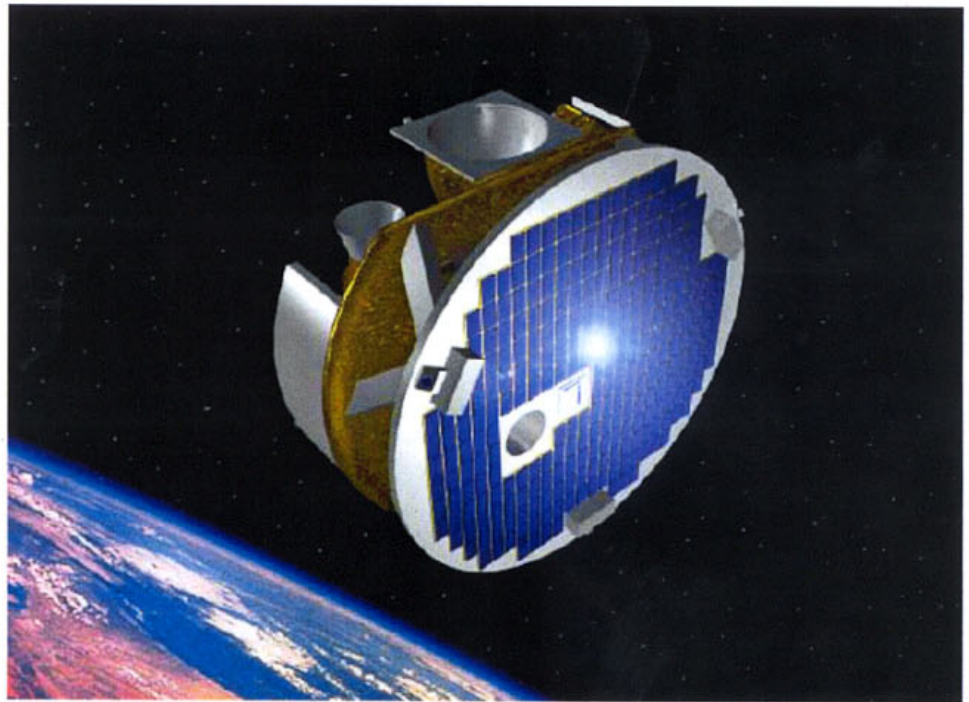


SCISAT-1 SMALL SATELLITE MISSION

SCISAT-1 is a small scientific satellite developed for the Canadian Space Agency (CSA).

The mission, Atmospheric Chemistry Experiment (ACE), will determine the chemical makeup of the atmosphere by collecting data on the absorption of the sun's rays by the atmosphere during the sunrise and sunset of each orbit.

Bristol Aerospace is the prime contractor for the design and manufacture of the SCISAT-1 spacecraft bus. Bristol designed the spacecraft bus for a two year mission life, with component derating to allow extension to five years. The SCISAT-1 spacecraft bus offers a low-cost, high reliability solution to the mission.



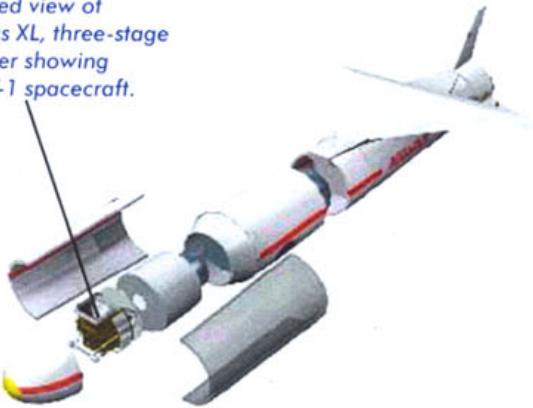
SCISAT-1 will be launched in May 2003.

Orbit:	650 km at 74° inclination
Launch Vehicle:	Pegasus XL vehicle
Operating Life:	Two years
Total Spacecraft Mass:	152kg (47kgs for the instruments)
Scientific Payload:	ACE-FTS (Bomem Ltd.) and MAESTRO (EMS Technologies Canada)
Attitude Control:	Bias momentum stabilized sun-pointing to within 1°
Power:	Fixed Solar Array: ~80 WOA
Data Storage:	1.5 Gbyte, 99% for science usage
Telemetry:	S-band, NASA STDN
Downlink:	Data rates to 4 Mbps
Uplink:	Data rate of 4 kbps

SCISAT-1 is a collaborative mission between the CSA and the US National Aeronautics and Space Administration (NASA). SCISAT-1 will be launched by a Pegasus XL vehicle in May 2003.

The scientific payload consists of two instruments: FTS (Fourier Transform Spectrometer) designed by Bomem Ltd., and the MAESTRO (Measurements of Aerosol Extinction in the Stratosphere and Troposphere Retrieved by Occultation) designed by EMS Technologies Canada. Both instruments will gather information on the chemical constituents and dynamic processes occurring in the earth's atmosphere between 4-100 km.

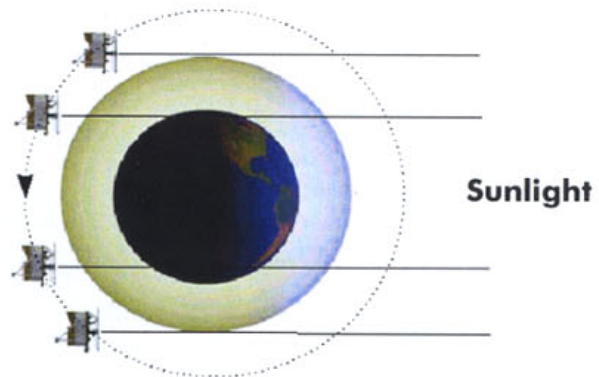
Exploded view of Pegasus XL, three-stage launcher showing SCISAT-1 spacecraft.



The measurements obtained by the FTS and MAESTRO instruments will be combined with data gathered by ground-based, balloon-based, and other space-based projects in order to obtain information and predict future trends relating to the ozone layer and its depletion.

The SCISAT-1 orbit will provide the scientific payload extensive coverage of the atmosphere with an emphasis on the mid-latitude areas, such as Canada, the United States, as well as the polar regions. SCISAT-1 will orbit the Earth 15 times a day, providing 30 daily opportunities (sunrises and sunsets) to take its measurements.

Periods in the orbit when solar occultation data is collected.



CORPORATE INFORMATION

Bristol Aerospace, a Magellan Aerospace company, has more than 40 years experience in the development, manufacture and integration of space systems for the Canadian Space Agency, NASA, and other international customers.

Bristol Aerospace is at the forefront in bringing scientific theory into reality. The company manufactures launch vehicles, small satellites, space payloads, and space hardware that advances our understanding of the Earth and our universe. Our engineering team offers customers turnkey solutions and leading technology for various space missions.

Suborbital Launch Vehicles:

Bristol is the manufacturer of the Black Brant suborbital rocket. More than 1000 Black Brant rockets have been launched from 20 sites around the world with an overall reliability record of 98.5%. Reaching altitudes of 1500 kms, these missions perform science in the areas of astronomy, microgravity, communications, and astrophysics.

Space Payloads:

Bristol has designed and manufactured more than 130 payloads for rocket and space shuttle missions.

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Magellan Aerospace Corporation is a publicly traded company listed on the Toronto Stock Exchange under the symbol MAL.