

AIP CANADA (ICAO) SUPPLEMENT 74/19

ONTARIO REGION HIGH-ALTITUDE RESEARCH BALLOON FLIGHTS VICTOR M. POWER AIRPORT (CYTS), TIMMINS, ONTARIO 25 AUGUST 2019 TO 27 SEPTEMBER 2019

Four (4) high-altitude unoccupied research balloons (call signs NIMBUS 1 to NIMBUS 4) will be launched from Victor M. Power Airport (CYTS) in Timmins, Ontario (48° 34' 14" N 81° 22' 36" W), between 25 August 2019 and 27 September 2019.

This balloon campaign is being conducted by the *Centre national d'études spatiales* (CNES) of France and the Canadian Space Agency (CSA).

The balloons range in volume from 150,000 m³ to 792,872 m³ (5,300,000 ft³ to 28,000,000 ft³), and the flight train varies from 1,497 kg to 3,040 kg (3,300 lbs to 6,700 lbs). Flights from lift-off to landing by multiple parachutes, after separation, will last up to 36 hours and will reach altitudes of up to 128,000 feet mean sea level (MSL). The balloons are colourless to start and then turn translucent white when inflated. As the payload clears the ground, the top of the balloon will reach 250 metres, or over 800 feet, above ground level (AGL). The parachutes used for descent are red- and white-striped for visibility.

In addition, two (2) small balloons (call signs MINUS 1 and MINUS 2) with a volume of 2.8 m³ to 8.5 m³ (100 ft³ to 300 ft³), a payload of up to 4.0 kg (10 lbs), and a flight duration of 3 hours will be launched between 05 September 2019 and 25 September 2019.

Flight crews should consult the Toronto and Montreal flight information regions (FIRs) and local (CYTS) NOTAMs for details on specific float times and possible restricted airspace.

A series of NOTAMs will be issued for the event.

Flight number(s):	6 flights
Launch date/time:	Between 25 August 2019 and 27 September 2019, from 0001Z to 1000Z
Payload system length:	up to 250 metres (850 feet)
Payload weight:	4.0 kg to 3,040 kg (10 lbs – 6,700 lbs)
Rate of ascent:	244 metres/minute – 305 metres/minute (800 feet/minute – 1,000 feet/minute)
Balloon diameter “at float”:	100 metres (350 feet)
Float altitude:	130,000 feet MSL
Estimated duration of “float”:	33 hours max
Description of area:	Timmins Airport up to 1,000 km (550 miles) east



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