

AIP CANADA SUPPLEMENT 55/22

ONTARIO REGION HIGH-ALTITUDE RESEARCH BALLOON FLIGHTS VICTOR M. POWER AIRPORT (CYTS), TIMMINS, ONTARIO 1 AUGUST 2022 TO 2 SEPTEMBER 2022

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 1 August 2022 and 2 September 2022.

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 400,000 m³ (5,300,000 ft³ to 14,200,000 ft³) and the flight train varies from 1,567 kg to 2,208 kg (3,450 lbs to 4,870 lbs). Flights from lift-off to landing by multiple parachutes, after separation, will last up to 24 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, up to eight (8) small balloons (call signs ICARUS 1 to ICARUS 8) with a volume of 5.6 m³ to 11.3 m³ (200 ft³ to 400 ft³), a flight train of up to 10.0 kg (22 lbs), and a flight duration of 3 hours will be launched between 09 August 2022 and 27 August 2022.

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):	Up to 12 flights
Launch date/time:	Between 1 August 2022 and 2 September 2022, from 0001Z to 1000Z
Payload system length:	up to 250 metres (850 feet)
Payload weight:	4.0 kg to 2,208 kg (10 lbs – 4,870 lbs)
Rate of ascent:	244 metres/minute – 305 metres/minute (800 feet/minute – 1,000 feet/minute)
Balloon diameter "at float":	100-150 metres (350-500 feet)
Float altitude:	130,000 feet MSL
Estimated duration of "float":	24 hours max
Description of area:	Timmins Airport up to 1,000 km (550 miles) east



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