

AN AIRCRAFT'S JOURNEY SAFETY EVERY STEP OF THE WAY

As the owner and operator of Canada's civil air navigation system, NAV CANADA tracks and guides aircraft from all over the world safely through Canadian airspace. Our role begins well before takeoff and continues right up to arrival.



Air traffic services in the north

In parts of the territories and Northern Quebec, community aerodrome radio stations provide weather and communications services to local airports.

EN ROUTE

As the aircraft crosses the country, **air traffic controllers** "hand off" the flight between flight information regions and give pilots updated weather information as well as directions to help them maintain safe distance from other aircraft.

Canadian airspace is divided into seven flight information regions, each managed by an area control centre responsible for any *controlled* airspace in the region outside of tower control zones. In *uncontrolled* airspace, flight service specialists provide weather information and en route advisories to pilots – and notify emergency services when a plane is missing or overdue on its flight plan.



Oceanic control over the North Atlantic

The area control centre in Gander, Newfoundland, provides air traffic control for transcontinental flights over the western half of the North Atlantic ocean until hand-off to the UK.

PRE-FLIGHT

The pilot files a flight plan or flight itinerary with an air traffic control unit, a flight service station or a community aerodrome radio station.



APPROACH

Air traffic controllers at the area control centre merge the descending aircraft into a single-file line with other aircraft approaching the airport. Controllers give instructions to pilots on heading, speed and altitude.



Flight service specialists give pilots information about air traffic, wind, weather and runway conditions from flight service stations and flight information centres across the country.



TAKEOFF

Once pre-flight checks are done, the pilot contacts the **air traffic controllers** in the tower for clearance to taxi and then take off. The controllers also provide instructions and information to help ensure a safe flight.



LANDING

Air traffic controllers in the tower give the pilot clearance to land and guidance on final approach. After the plane lands, they direct pilots to an exit taxiway and terminal gate.

