

Summary of NRC Research Aircraft Flights

Flight 1

Nov 5, 2007 1355Z-1815Z

Remnants of Hurricane Noel in Davis Strait

Flight 2

Nov 6, 2007 1653Z-1938Z

CloudSat Pass over Iqaluit. Mesoscale Convergence with light precipitation observed in Iqaluit

Flight 3

Nov 7, 2007 0235Z-0622Z

Low pressure system in Hudson Strait. Travel into the Strait and along coastline to sample upslope precipitation.

Flight 4

Nov 9, 2007 2129Z – Nov 10 0125Z

Convection over Hudson Strait between Cape Dorst and Kimmirut, with unexpected snow showers in Iqaluit.

Flight 5

Nov 12, 2007 11:45Z-16:11Z

Pangnirtung precipitation event focus – and wind regime of Cumberland Sound, radar mapping of upslope precipitation along the coastline

Flight 6

Nov 17, 2007 1145Z-1320Z

Flight through the warm front of the rapidly intensifying Low Pressure system. Flight started at Iqaluit, flying to Goose Bay, Nfld. The plane ended up being grounded in Goose Bay overnight because of the storm.

Flight 7

Nov 18, 2007 1300Z-1530Z

Staged out of Goose Bay, Nfld flying back to Iqaluit – CloudSat validation pass, traversed a deep Low Pressure system in Foxe Basin.

Flight 8

Nov 18, 2007 1632Z-2200Z

CloudSat pass east of Cape Dorst and just west of Prince Charles Island. Again this flight was sampling the deep low pressures system (965.4 mb lowest measure during flight)

Flight 9

Nov 20, 2007 1538Z-1903Z

Low pressure system over Baffin Island and Newfoundland there was an area of convergence in Ungava Bay, which also coincided with a CloudSat pass.

Iqaluit (CYFB) to Kuujjuaq (CYVP)

Nov 20, 2007 2015Z-2216Z

Return flight from CYVP to CYFB was back along the CloudSat track to observe the area of convergence from above, no new meteorological features to sample.

Flight 10

Nov 22, 2007 1611Z-1843Z

CloudSat mission to Hudson Strait to sample the cloud and precipitation. Very localized system, shoreline was clear of cloud cover

Flight 11

Nov 23, 2007 1614Z-1942Z

CloudSat mission into Foxe Basin to sample cloud system

Flight 12

Nov 26, 2007 1754Z-1949Z

Local flight – observing cloud features in Frobisher Bay and out along the tip of the Peninsula. CBC on board for the flight,

Flight 13

Nov 28, 2007 1500Z-1823Z

Flight into Davis Strait to sample a weak Low pressure system tracking from Greenland to the tip of the Cumberland Sound Peninsula. This also local feature with coincided with a CloudSat mission.

Flight 14

Nov 28, 2007 2003Z-2123Z

Local flight – observing cloud features in and around Iqaluit. Porpoising up and down along NW-SE track over the airport. Will use a lot of these measurements for remote sensing validations of instruments around the weather office