

Report for Rodica Nitu

Lisa LeBlanc

November 17, 2006

Point to address

What is your planned research?

- provide base of operational measurements

How will it be conducted?

- most instrumentation is already installed and operates 24/7

To what theme does it belong?

- this work is part of Theme 1, Project 2: Precipitation, cloud and associated features in the Iqaluit area

Logistics?

- MSC to handle this internally with local help

Existing MSC instrumentation

Provide: temperature, dewpoint, wind speed and direction, cloud height and coverage, visibility, precipitation rate, amount and type, snow depth and ice accretion

- ▶ Temperature/Dewpoint in Stevenson Screen
- ▶ Two NWS 425 3m Sonic wind sensors
- ▶ RMY 5103 3m wind sensor
- ▶ 78D 3m wind sensor
- ▶ 78D 10m wind sensor
- ▶ Geonor T200B precipitation sensor
- ▶ 3 SR50 snow sensors

Existing Sensors at MSC Test Site, con't

- ▶ TB3 tipping bucket rain gauge (probably covered during STAR)
- ▶ Belfort 6100 Visibility sensor
- ▶ POSS Present weather sensor
- ▶ Belfort Fischer Porter Precipitation sensor
- ▶ 872E2 ice accretion sensor
- ▶ CT25K Ceilometer
- ▶ Vaisala PTB 200 pressure sensor

Instrumentation to be installed 2007

- ▶ DFIR
- ▶ 4 video cameras (tiltable, night viewing, 2 zoomable)
- ▶ 2 all weather precipitation sensors (OTT Parcivel)

Other Instrumentation

- ▶ 4 video cameras (1 tiltable, 1 night viewing, 2 zoomable), location TDB
- ▶ data from MSC wind experiment

Timeline

- ▶ video cameras and precipitation sensors currently being tested at Downsview
- ▶ everything to be shipped March/April 2007
- ▶ video cameras and precipitation sensors installed and tested May/June 2007
- ▶ double-fence installed July/August 2007; tested September