## **ICI-4 Mission objective**

 Investigate the micro-physics of plasma instabilities and turbulence phenomena associated with polar cap patches being pulled into the nighttime aurora, referred to as auroral blobs.

# ICI 4:9-22 February 2015

### "A space weather rocket mission"

#### **Payload measures:**

Length: 2.9 meter Weight : 140 kg Apogee : 350 km Flight time : 10 min Ground range : 500 km





# **ICI 4 instrumentation**



### **Optimal launch conditions:**

- 1) Clear sky and a polar cap patch entering the substorm auroral activity situated over the nominal trajectory
- 2) EISCAT radars record **a patch entering the auroral activity situated above the** nominal trajectory.

### Minimal launch conditions:

3) Auroral activity and F-region plasma structures above the rocket trajectory

### Launch Window:

9 – 22 February 2015 17:00-22:00 UT (20-01MLT)

DAY 1-7 : Criterion 1 or 2 are met DAY 7-14: Criterion 1 or 2 or 3 are met This is however a subject to change depending on the weather and space weather forecasts