BARREL Sweden

- Launched 5 balloons so far: Aug 10, 13, 17, 19, 21
- Flight durations ranging from ~6-15 hours
- Lots of precipitation observed!
Balloon Trajectories

Example Conjunction
Aug. 10, 1300-1730 UT
BARREL Observations on August 10, 2015

Van Allen conjunction interval

relativistic electron precipitation
Van Allen Observations on August 10, 2015

BARREL conjunction interval

Courtesy G. Hospodarsky
Van Allen Observations on August 10, 2015

BARREL conjunction interval

Courtesy G. Hospodarsky
BARREL ~1 MeV precipitation

EISCAT in low altitude mode

Finland Riometers

Courtesy C. Rodger and M. Clilverd
August 13, 2015

Locations at 0930 UT

BARREL 180-550 keV

FIREBIRD 9:27:00-9:29:30

BARREL 9:28:00-9:28:30

0700 UT
1000 UT