Instructions to Groups

We have access to the Millstone Hill radar from 1900 LT to 0800 LT.
5 Blocks of time are available:

- 1900 - 2100 LT
- 2100 - 2300 LT
- 2300 - 0100 LT
- 0400 - 0600 LT
- 0600 - 0800 LT

Each group should:

- Discuss and decide on a science topic you want to study with Millstone Hill.
- Decide on what mode to run to accomplish your science goals and when to run it.
- Write a request for radar time (describing your science and plans) and email it to Elizabeth
- Get the request approved by Elizabeth.
  Get ready to be awake and ready to run your experiment at the time assigned to you

Deadline for experiment submission = 1800 LT today.
elizabeth.kendall@sri.com

Group should assemble in the hotel lobby 30 minutes before the run begins.
Millstone staff will be available at the radar site in the Geospace Sciences Center during the run.

Experiment Type A: Wide Field Scanning

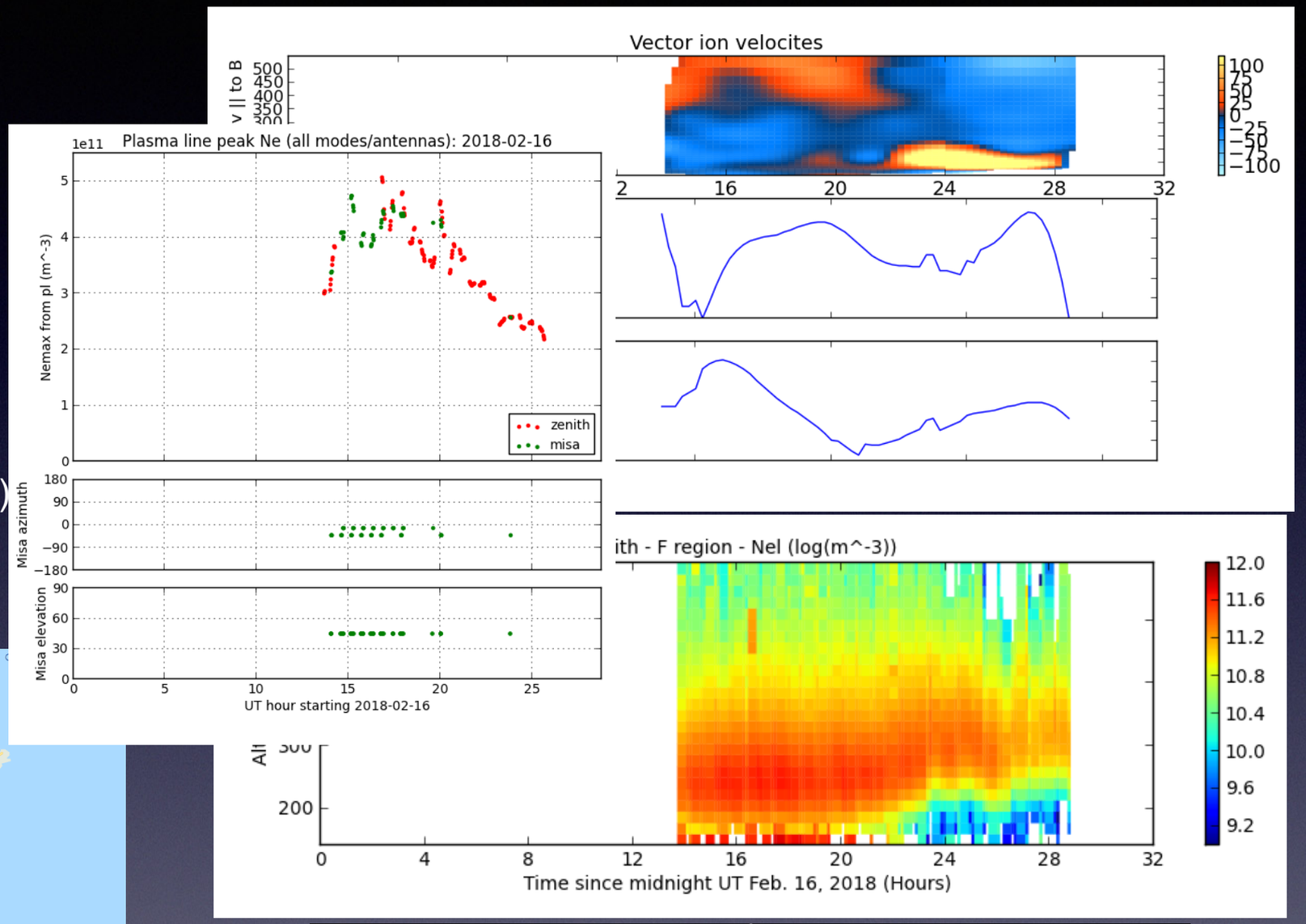
Vertical profiles [zenith],
regional vectors [45 deg elevation],
wide field scans [6 deg elevation)

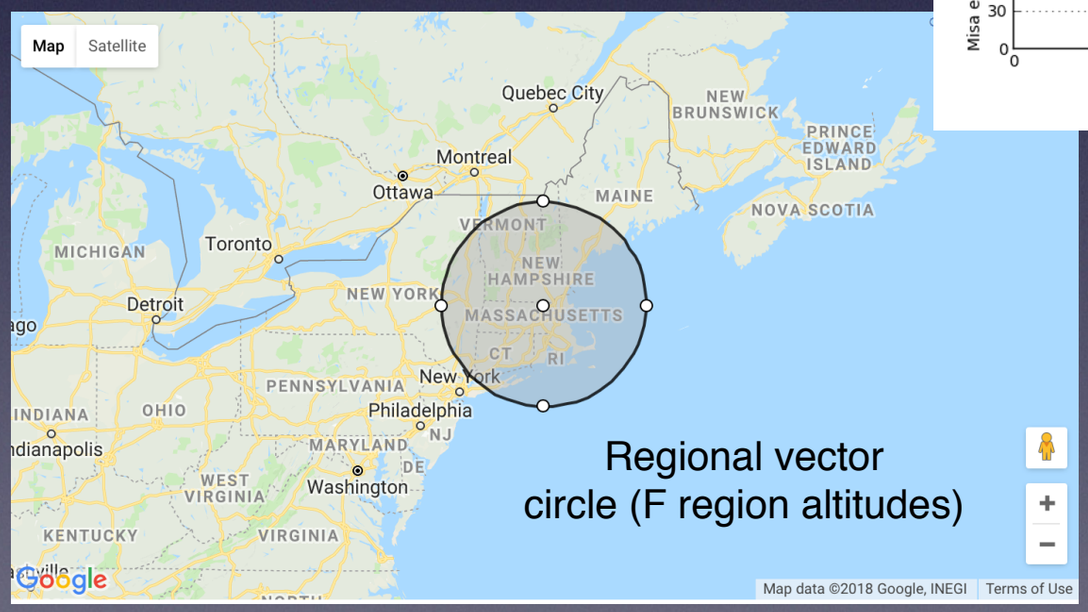
MISA fixed positions on either side of magnetic meridian

E, F region

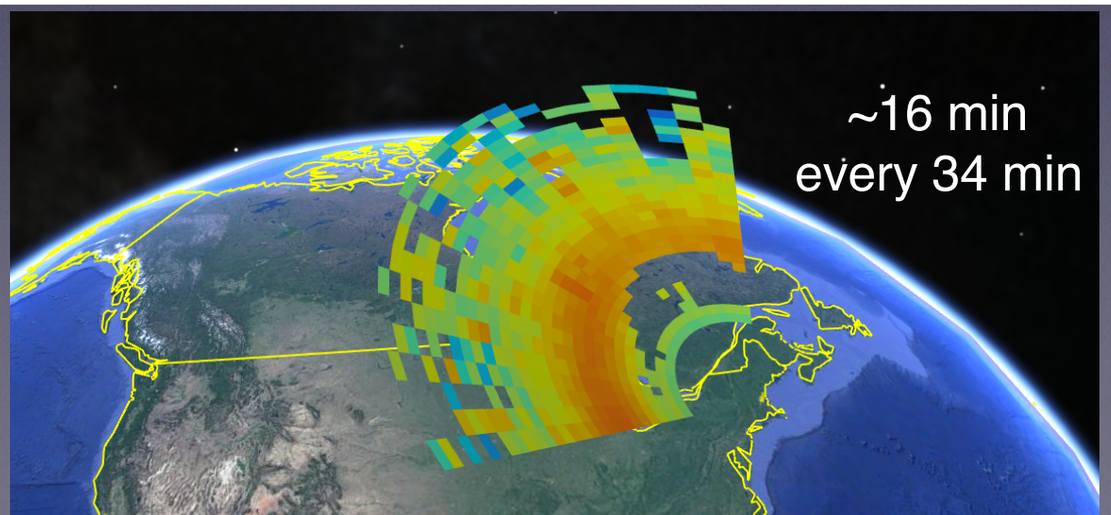
F2 peak high accuracy Langmuir mode electron density available (daytime ionosphere)

Experiment cycle time = ~34 minutes





Regional vector circle (F region altitudes)



Zenith: 3 minutes
MISA scans: 35 seconds / 5 degrees
MISA fixed positions: 3 minutes

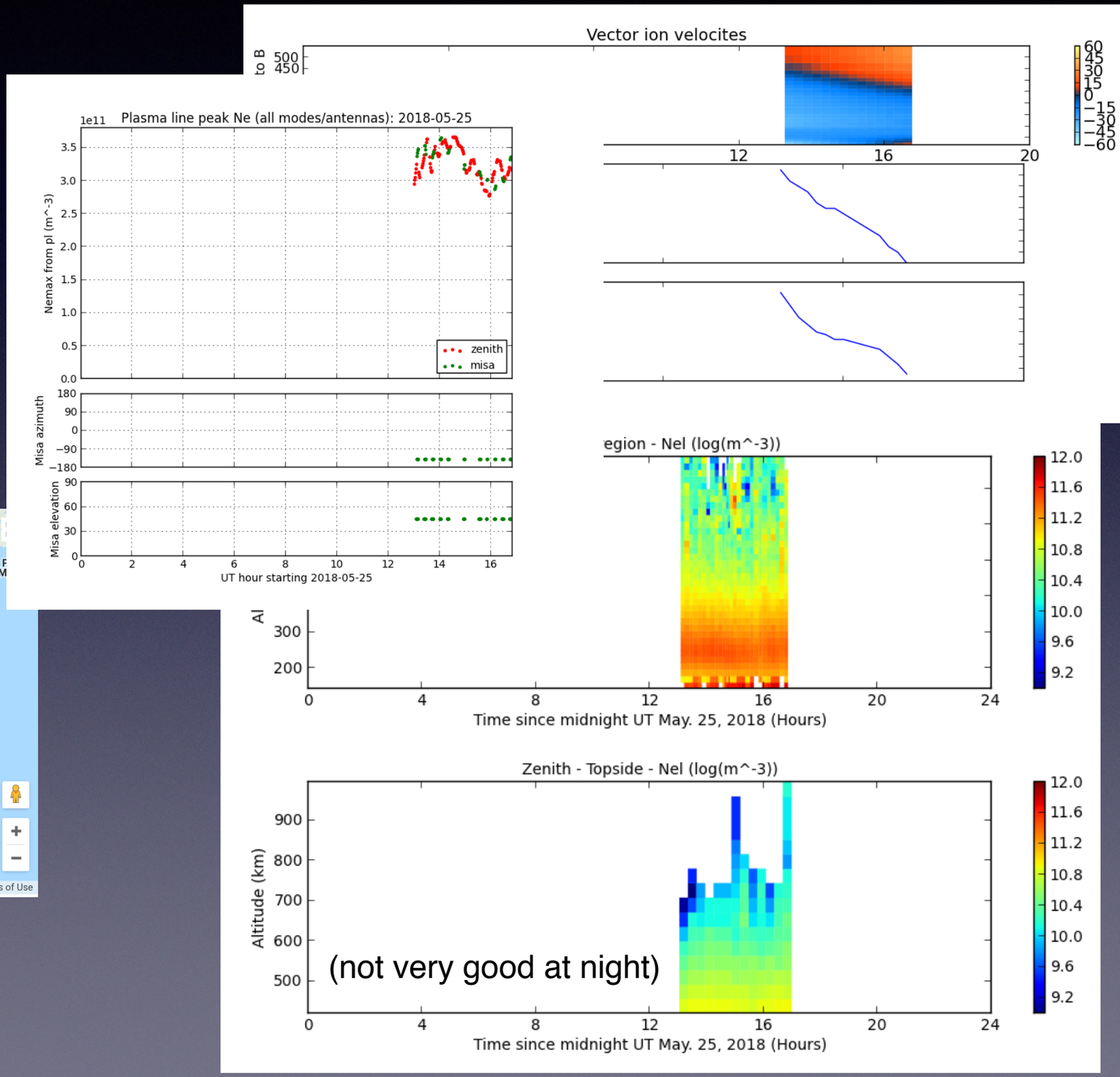
Experiment Type B: Regional Vector + Topside

Vertical profiles [zenith],
regional measurements [45 deg elevation]

E, F region, topside ionosphere

F2 peak high accuracy Langmuir mode
electron density available (daytime ionosphere)

Experiment cycle time = ~18 minutes



Regional vector
circle (F region altitudes)

Zenith: 3 minutes
MISA fixed positions: 3 minutes

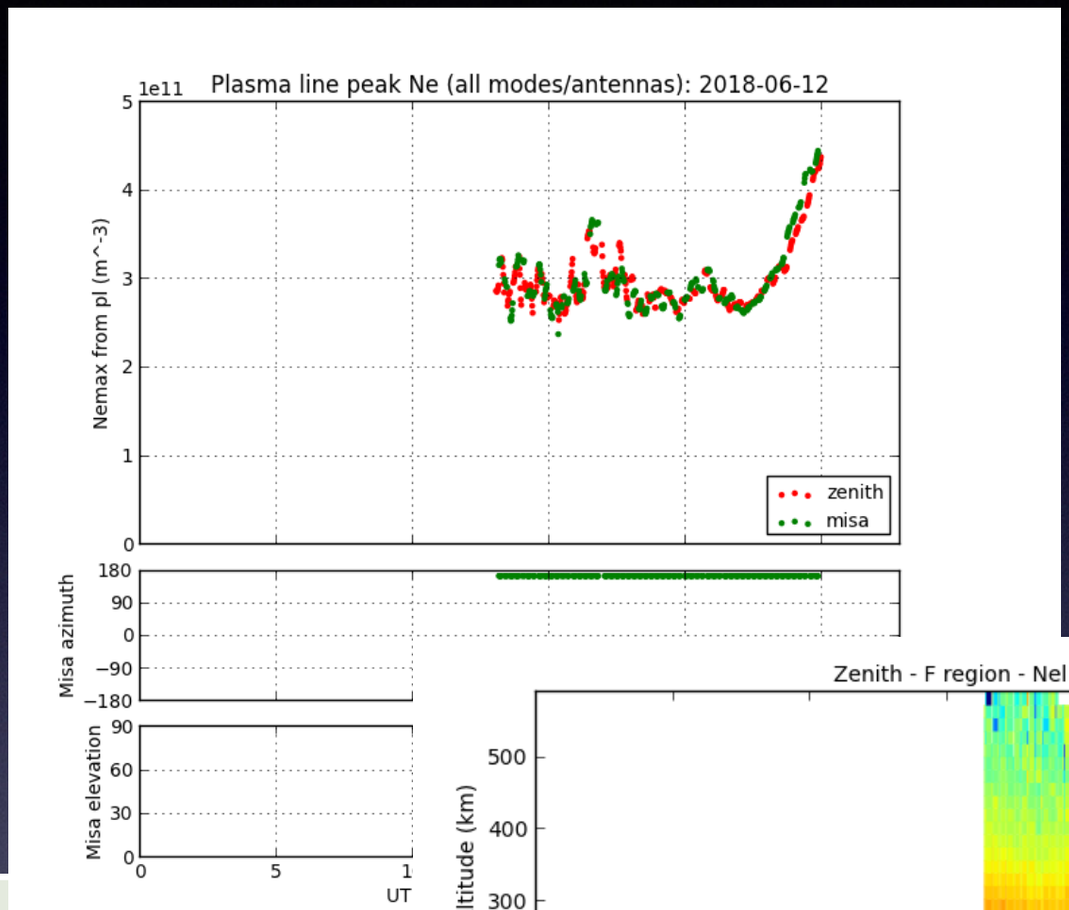
Experiment Type C: Vertical + Up B

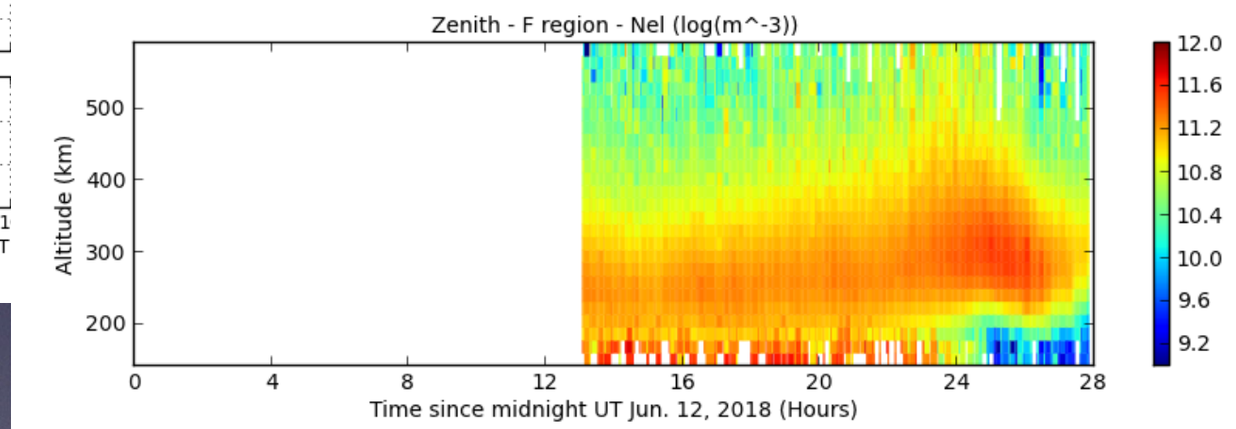
Vertical profiles [zenith; 3 minutes], fixed pointing up B [MISA; 3 minutes]

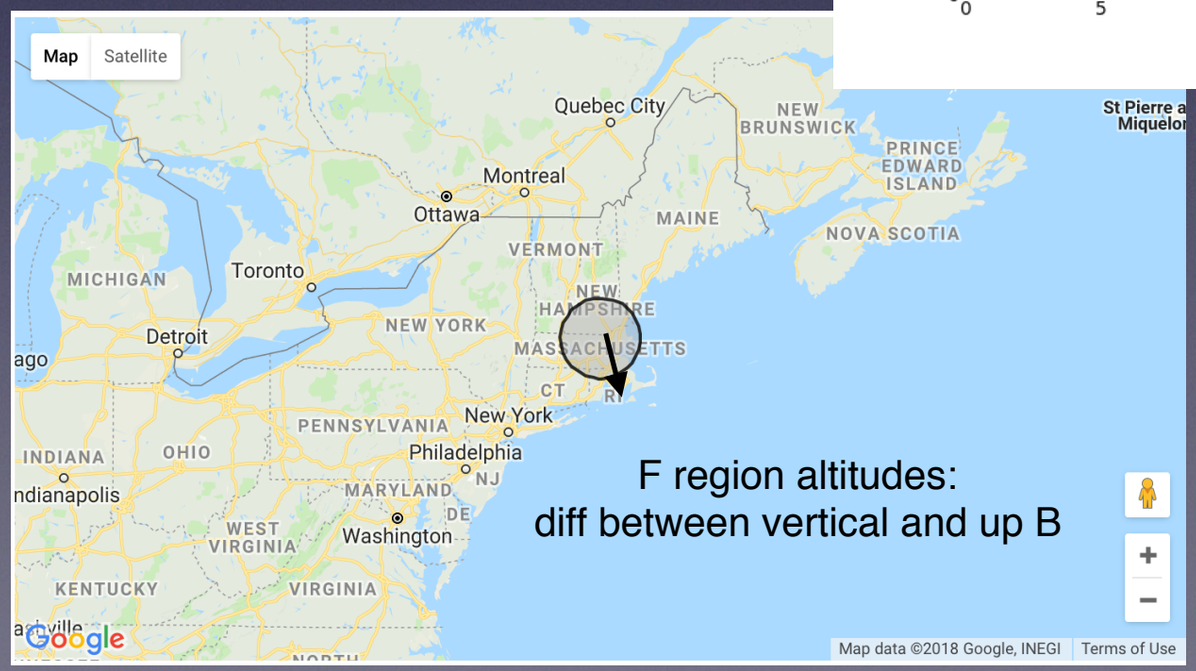
E, F region ionosphere

F2 peak high accuracy Langmuir mode electron density available (daytime)

Experiment cycle time = ~6.3 minutes







F region altitudes:
diff between vertical and up B

Zenith: 3 minutes
MISA up B: 3 minutes