## Millstone Hill experiment choices

67 meter zenith antenna and a 46 meter fully steerable antenna

17.5-02 local 21.5-06 UT



Latitude: 42.61°

Longitude: 288.51°

## Experiment Type A: Regional Vector

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

Off-zenith positions are on either side of magnetic meridian (-12.5 az / -40.5 az)

E, F region ionosphere

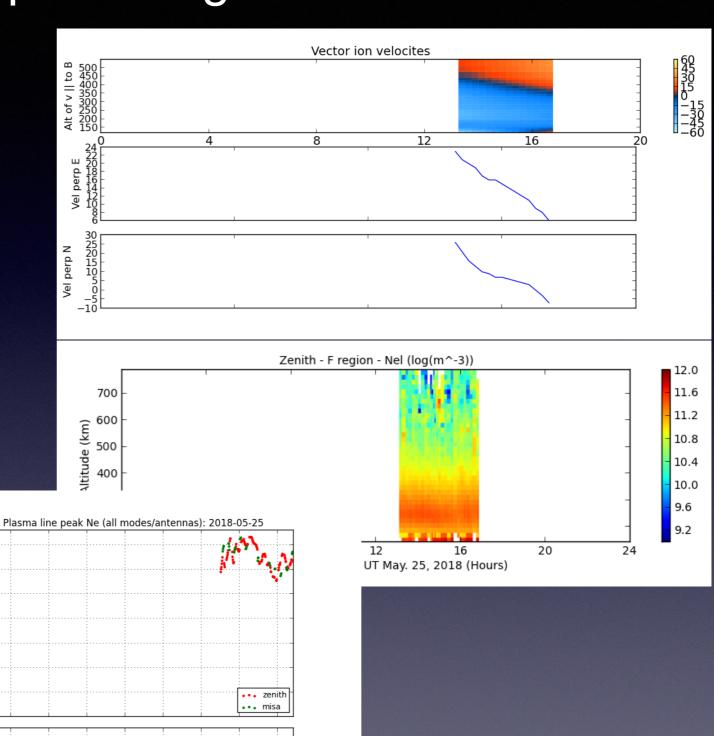
F2 peak high accuracy Langmuir mode electron density available (daytime ionosphere)

Experiment cycle time =  $\sim$ 17 minutes



Zenith: 4 minutes
MISA fixed positions: 4 minutes
(Currently MISA motion is limited)

te 60



## Experiment Type B: Vertical + Up B

Vertical profiles [zenith; 1.5 minutes], fixed pointing up B [MISA; 1.5 minutes]

E, F region ionosphere

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

Experiment cycle time =  $\sim$ 3 minutes

Quebec City/

Montreal

New York

Philadelphia

Ottawa

**NEW YORK** 

PENNSYLVANIA

VIRGINIA

MARYLAND

NFW

F region altitudes:

diff between vertical and up B

+

Map data ©2018 Google, INEGI Terms of Use

Мар

ago

INDIANA

ndianapolis

a dville gle

KENTUCKY

Satellite

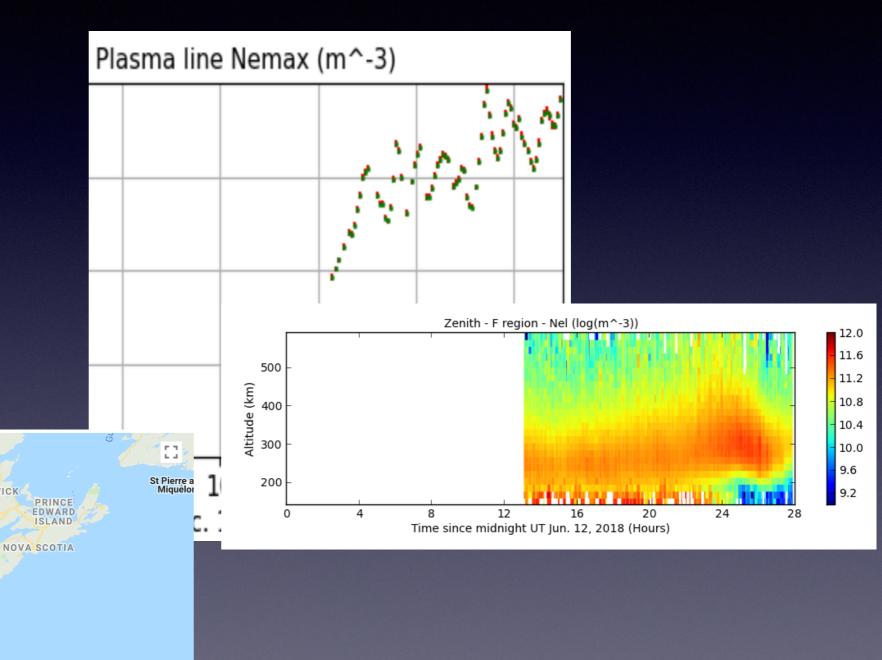
MICHIGAN

Detroit

OHIO

Toronto

VIRGINIA



Zenith: 1.5 minutes MISA up B: 1.5 minutes