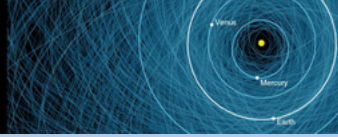


# Starlink Satellite Situation

Tim Spahr, NEO Sciences, LLC & University of Maryland Small Bodies  
Node

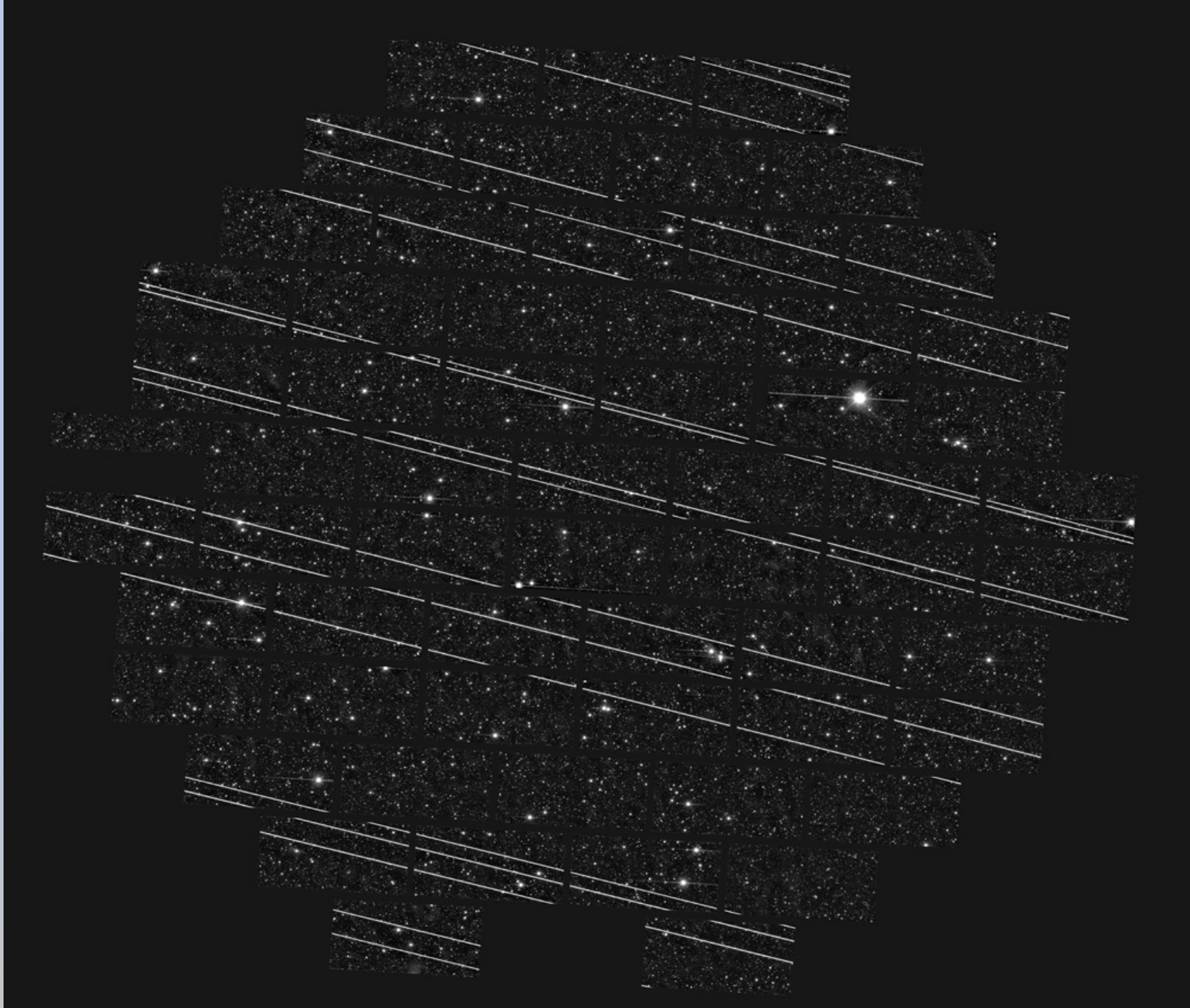
IAWN Steering Committee Meeting, Vienna, 5 February 2020



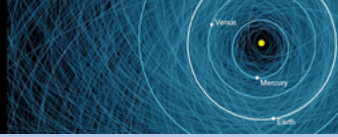
# So what's the buzz about these things!?

--SpaceX is launching large constellations (12000 to 42000 objects) over the next several years to provide a high-speed, worldwide 5G network

--Aim is to have the objects spread out at 340 km and 1150 km altitudes



Delve/CTIO/AURA/NSF



## Groundbased concerns

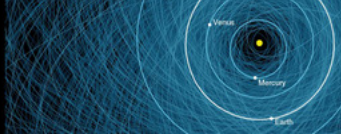
- Groundbased astronomers are concerned (actually in open rebellion!) over the possibility they will lose productivity and in extreme cases functionality
- Currently no national/international body regulating the sky from ground-based astronomical perspective (radio bandpasses \*are\* regulated already)



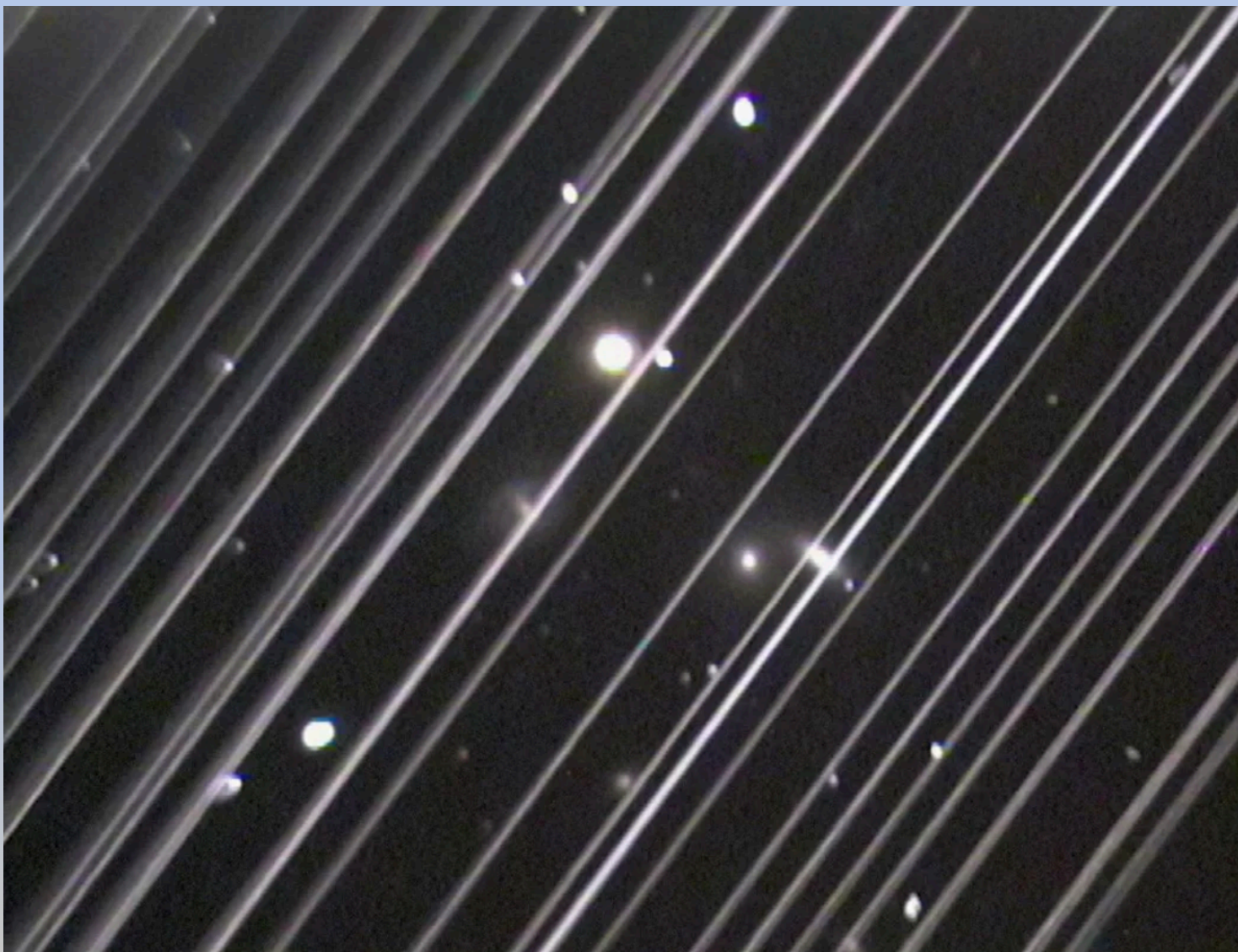
## Needs—data set & simulations

- we currently need a few data sets showing the image impact and then extrapolation to the larger constellations
- what techniques may help groundbased folks avoid any impacts to NEO discovery rates?





# Open Discussion



Victoria Gergis/Lowell Observatory