

ASA ARISS SETUP & Integration Testing DAY

April 16, 2016

Amateur Radio International Space Station (ARISS)

- All Saints Academy (ASA) in Middletown selected to become the FIRST Rhode Island school to have a radio contact with the International Space Station (ISS).
- Selection awarded based on innovative program combining space sciences and amateur radio into the STEM curriculum (Science, Technology, Engineering, Math) along with a detailed plan to provide live and online experiences on the day of the event.
- Two independent satellite ground stations required as part of the proposal.
- April 16 was the first day of on-site station integration and on-air testing.



Backup Station Antennas (Egg-Beaters in red oval)



Middletown Fire Department assists in lifting heavy gear onto the roof



**Gear being offloaded, and antenna assembly underway
Jeff Greer (left), Jim Sammons (middle), and Paul Silverzweig (right)**



Installing Antennas & Making sure things are plumb
(Jeff on left, Jim on right)



Jeff and Jim mount 70cm CP beam to boom



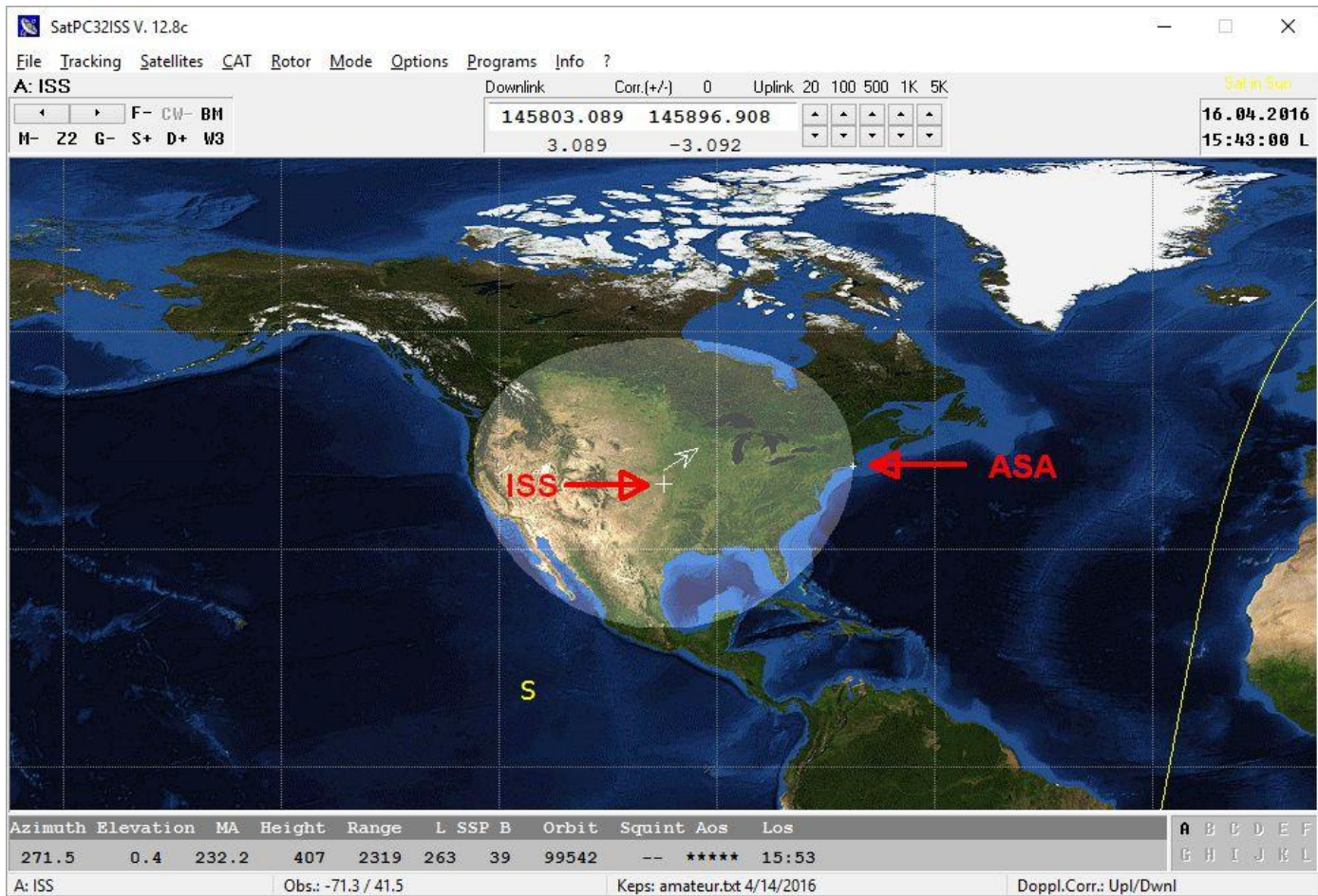
Mike Cullen and Jim ensure all goes well up-top while antenna system is tested



Mike And Jeff glad that antennas are installed

Bob Beatty and Jeff verify the Az/EI rotors & Antenna





Beginning of a ten minute ISS pass at 3:43 PM over Central US

Proof is in the Pudding!

First packet received 1 minute after start of pass (4.7 degrees elevation) at 3:44 PM

fm N1ASA to CQ via RS0ISS* FN41IM ASA ctl UI^ pid F0 - 16-APR-16 19:44:03

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fm N1ASA to CQ via RS0ISS* FN41IM ASA ctl UI^ pid F0 - 16-APR-16 19:52:04

Last packet received 1 minute before end of pass (2.2 degrees elevation) at 3:52 PM

Thanks to the following ham helpers!

- Paul Silverzweig (K1PSX)
- Jim Sammons (KA1ZOU)
- Steve Rys (KB1VYD)
- Jeff Greer (KA1NGP)
- Paul Fredette (K1YBE)
- Mike Cullen (K1NPT)
- Brian Cook (KC1EQB)
- Bob Beatty (WB4SON)

And thanks to Chief Doire and the Middletown Fire Department for the heavy lifting!