WeatherBug Safety Solutions In Action

WHAT   BWI tower closes after lightning strike injures airport controller.
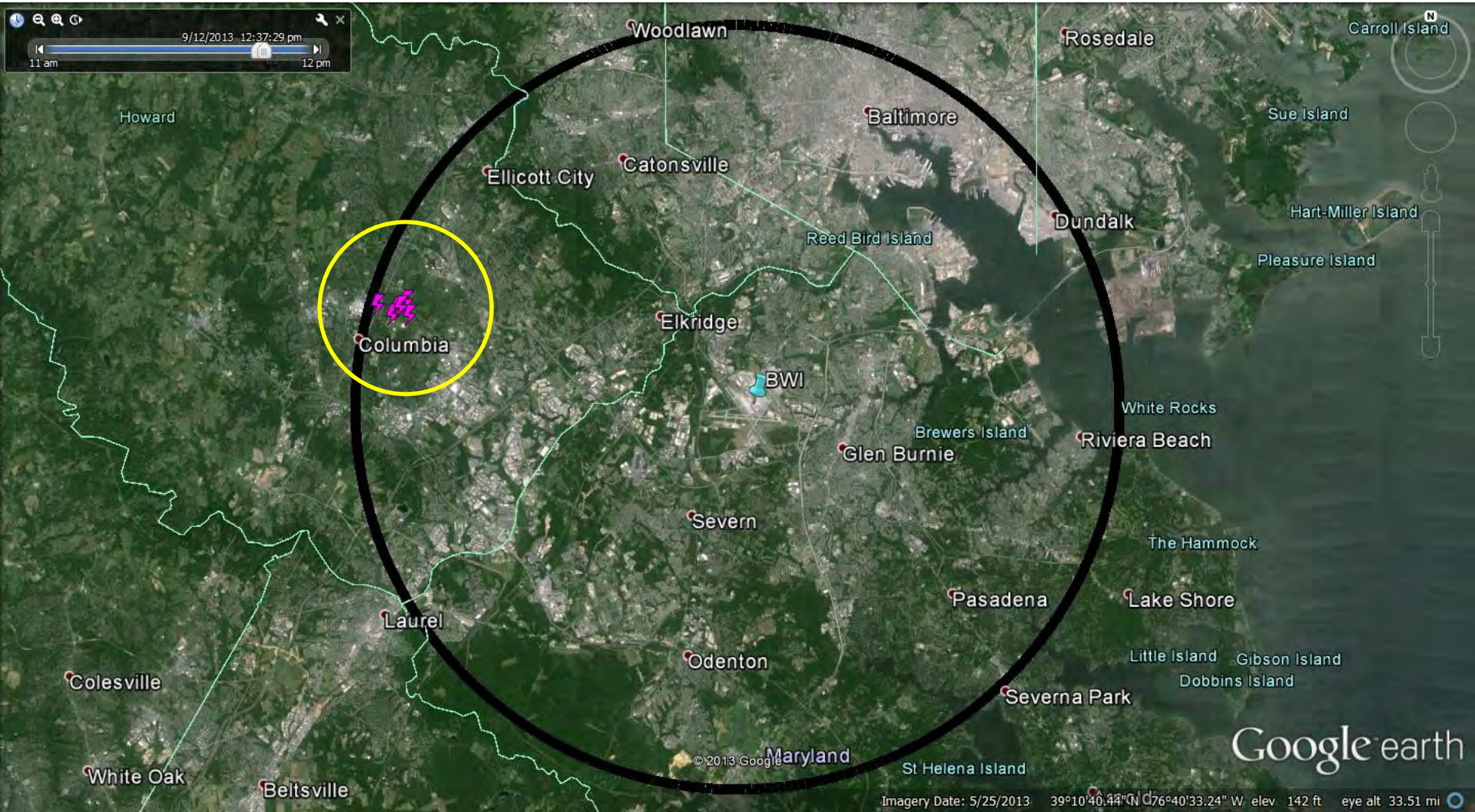
WHERE   Baltimore/Washington International Thurgood Marshall Airport, Hanover, MD

WHEN: Thursday, September 12, 2013 at 1:24 PM EDT

OUR ADVANCED ALERT: <u>47 minutes</u> advanced warning provided.
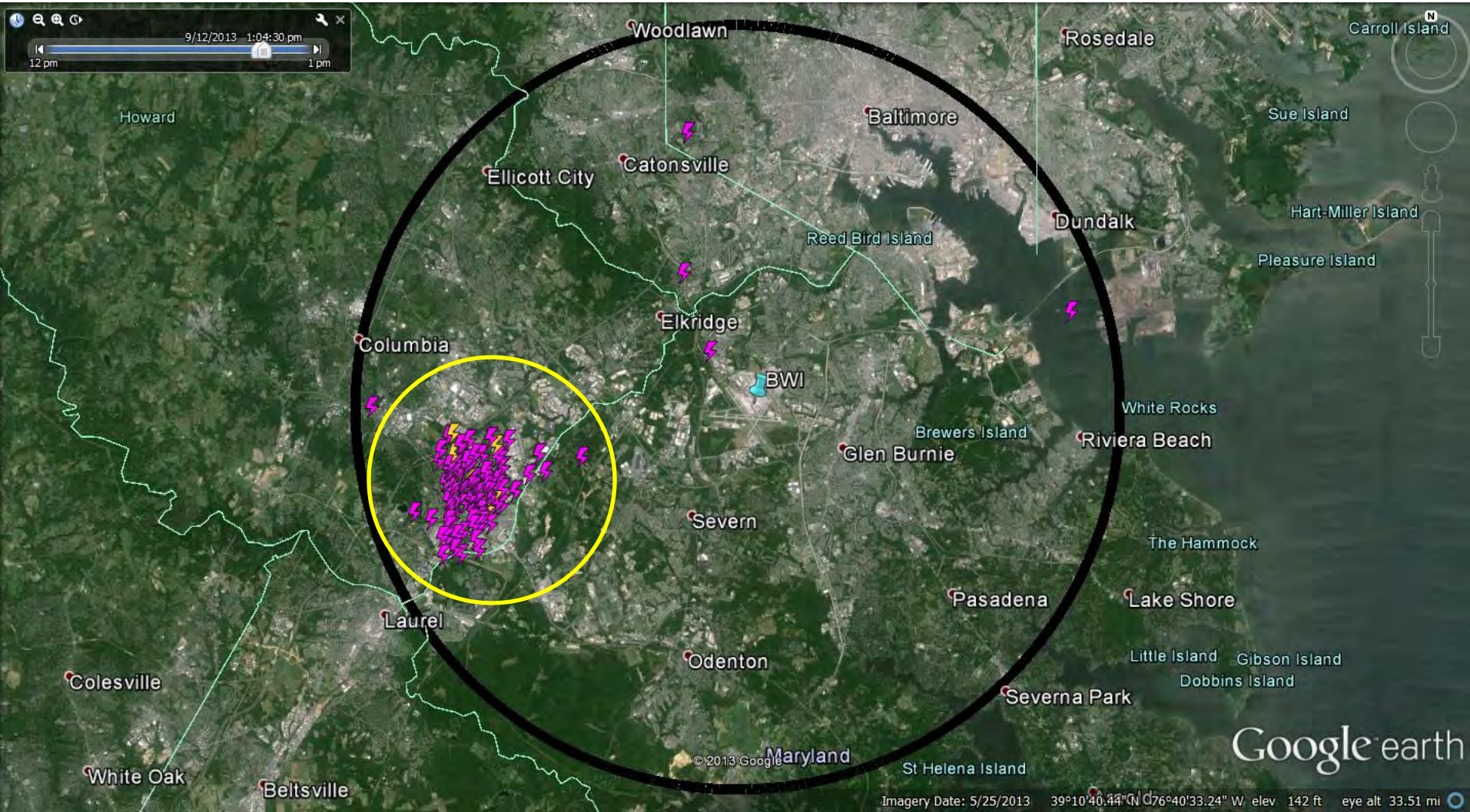
47 minutes prior to strike
12:37 PM EDT – The first In-cloud lightning strikes are detected within a 10 mile radius of BWI.
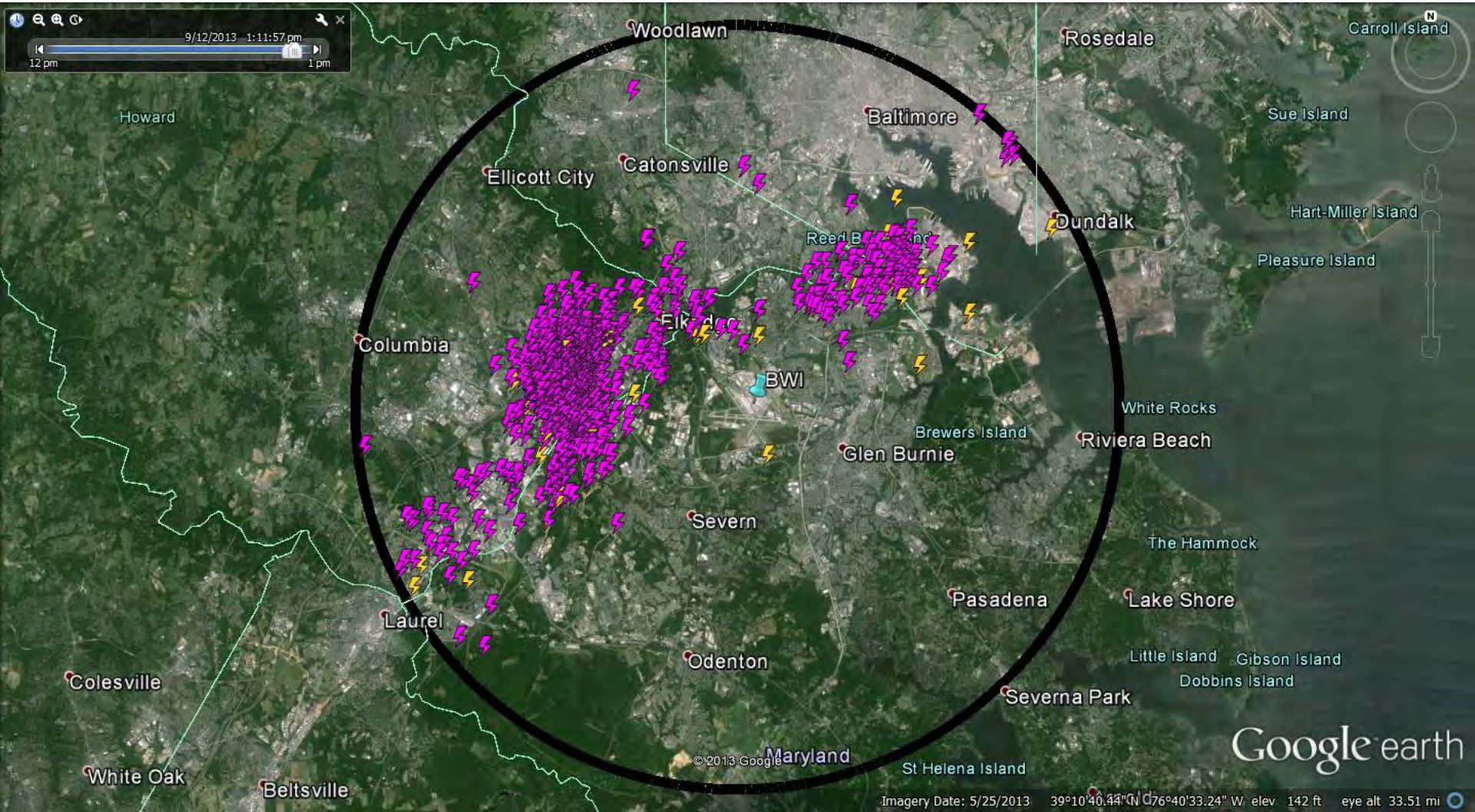
23 minutes prior to strike
1:04 PM EDT – In-cloud lightning begins to intensify southwest of BWI. In-cloud lightning strikes 1.65 miles away.
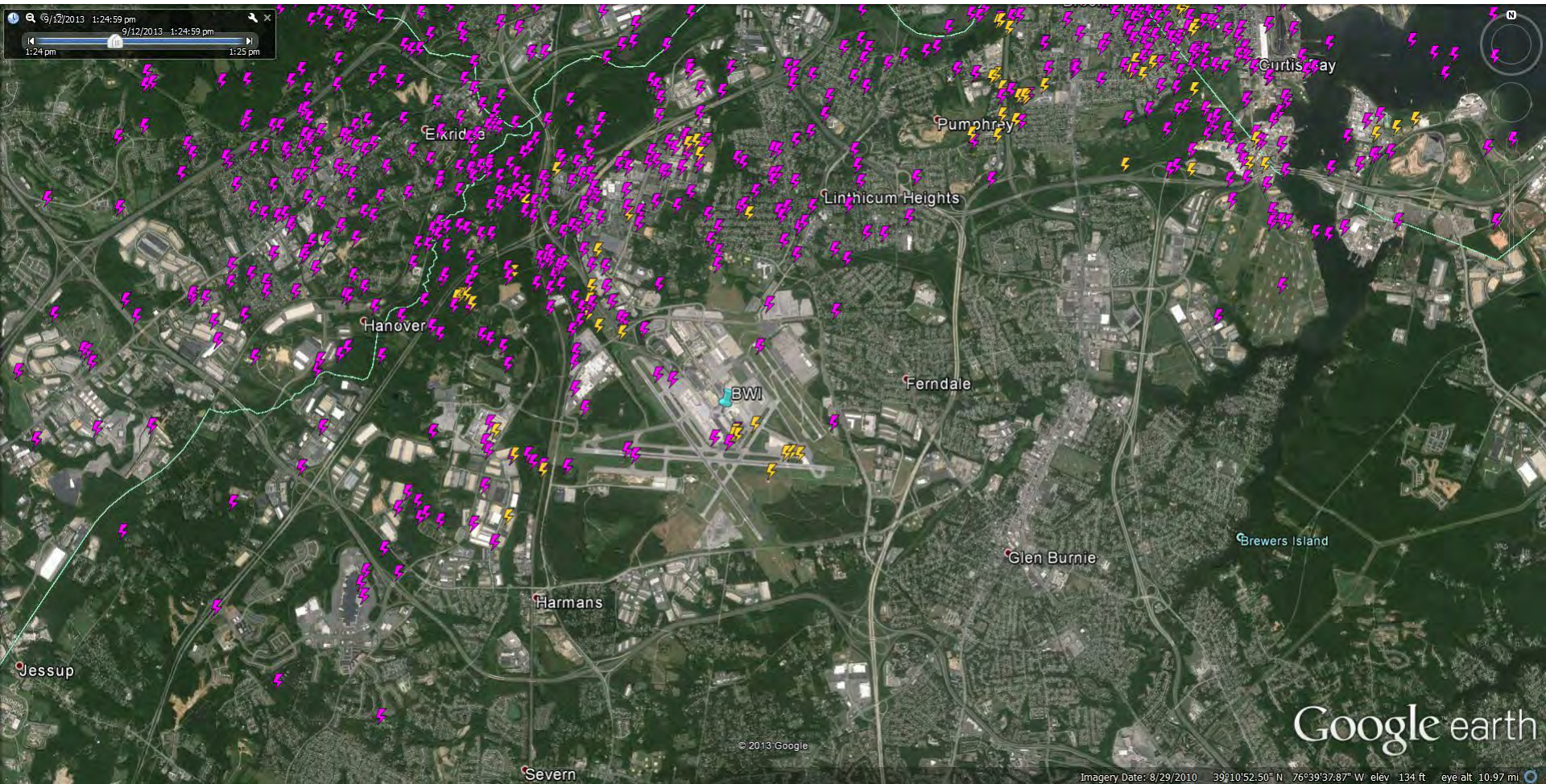
13 minutes prior to strike
1:11 PM EDT – Lightning continues to build west and north of BWI. Cloud-to-ground lightning strikes about 1.25 miles away.

Lightning strikes airport; one airport controller injured
1:24:46 PM EDT – In-cloud lightning strikes directly over BWI; 4 cloud-to-ground strikes hit airport property injuring an airport controller.
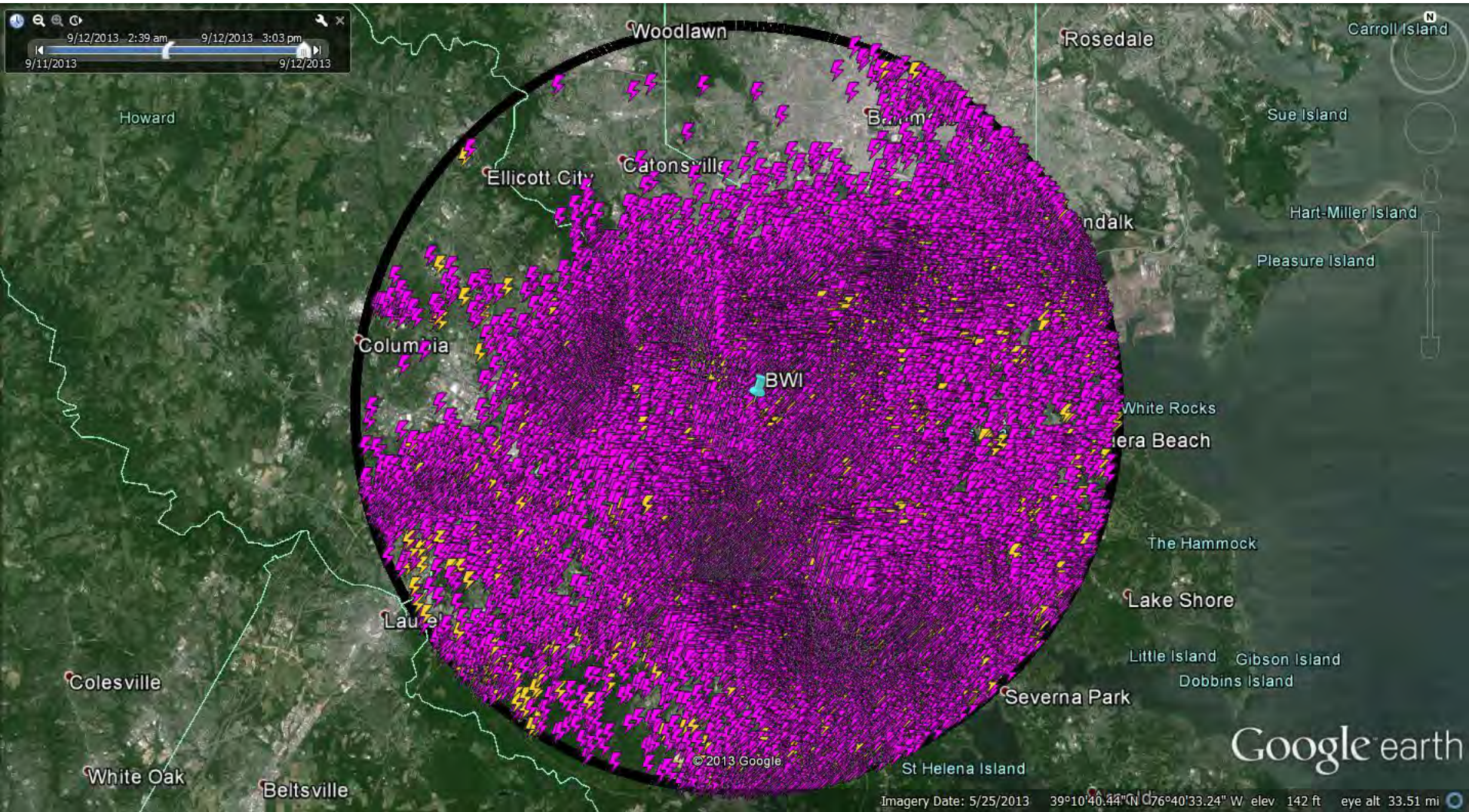
Lightning strikes airport; one airport controller injured
1:24:46 PM EDT – In-cloud lightning strikes directly over BWI; 4 cloud-to-ground strikes hit airport property injuring an airport controller.

Total Lightning for the event.

A Severe Thunderstorm Warning was issued for areas in northern Baltimore (north of airport) at 12:46 p.m. EDT, which expired at 1:29 p.m. http://mesonet.agron.iastate.edu/vtec/#2013-O-NEW-KLWX-SV-W-0188/USCOMP-N0Q-201309121645

A Severe Thunderstorm Warning was issued for southern areas of Baltimore (including the airport) at 1:56 p.m. EDT, which expired at 2:40 p.m. http://mesonet.agron.iastate.edu/vtec/#2013-O-NEW-KLWX-SV-W-0189/USCOMP-N0Q-201309121755

SPC issued a Severe Thunderstorm Watch for Maryland at 2:50 p.m. EDT.

View more case studies:

http://earthnetworks.com/IndustrySolutions/CaseStudies

This Event Demonstrates How Advanced Warning Can Help Save Lives

The vast majority of lightning stays in the sky and jumps from cloud-to-cloud. Meteorologists and climate scientists have long known that this in-cloud lightning is an early sign of impending severe weather – including dangerous and even deadly cloud-to-ground strikes that kill 50 people, on average, every year and injure far more.

Knowing that in-cloud lightning plays a key role in the formation and intensity of many kinds of extreme weather, we established **the world's largest and most advanced lightning sensor network.** The sensors in our network continuously **monitor, calculate** and **report** where and when lightning strikes occur in the clouds or on the ground – what meteorologists call **total lightning.**

Our advanced technology based on state-of-the-art lightning sensors and networking technology now makes it possible for us to provide our customers with **peace of mind** when storms with lightning are in the area.

On mobile: WeatherBug's Spark is the only mobile tool delivering minute-by-minute, mile-by-mile lightning strike information for Android devices, iPhone and iPad.

On PCs: StreamerRT is the most comprehensive and user-friendly tool available to visualize live and forecast weather conditions at local, regional, national and international levels for critical decision-making.

Outdoors: Outdoor mass notification system for schools, parks, athletic facilities, stadiums and other outdoor venues where safety is a priority.