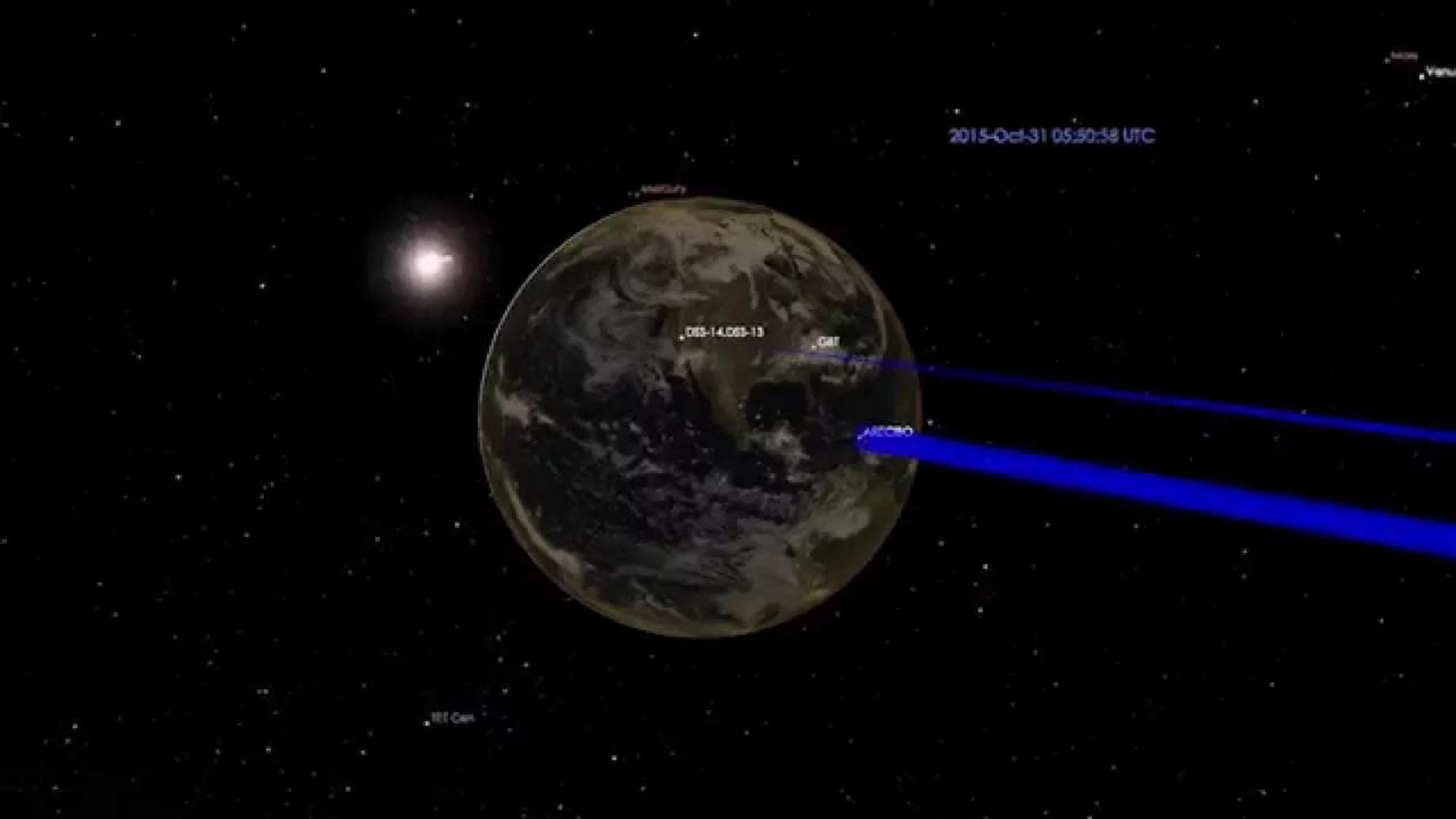
2015-Oct-31 05:50:58 UTC
DSS-14,DSS-13
GMT
ARECIBO

1
00:00:02,620 --> 00:00:08,520
So, here is the animation of asteroid 2015TB145 as it goes in its orbit around the sun.

2
00:00:08,780 --> 00:00:11,540
These dots everywhere, that's the main belt.

3
00:00:11,700 --> 00:00:15,040
Those are the asteroids that are between Mars and Jupiter.

4
00:00:15,960 --> 00:00:21,400
This asteroid is going to fly by Earth on October 31st. So, this is our Halloween asteroid.

5
00:00:22,420 --> 00:00:26,820
We are going to study it with optical, infrared, and radar wavelengths.

6
00:00:28,180 --> 00:00:31,840
This is the Goldstone Solar System Radar located in Mojave Desert, California.

7
00:00:32,920 --> 00:00:39,240
So, imagine that the radar is a very large flashlight. But, instead of transmitting visible light, we are transmitting

8
00:00:39,380 --> 00:00:43,040
And these microwaves are bouncing off the asteroid and we are receiving it back.

9
00:00:43,160 --> 00:00:49,320
These received microwaves, they carry the imprint of asteroids that helps us learn about its characteristics.

10
00:00:51,040 --> 00:00:53,540
On October 30th, this is our very first track.

11
00:00:53,540 --> 00:00:59,580
We are going to use both Goldstone and Arecebo radars to get the images of this asteroid.

12
00:01:00,160 --> 00:01:08,080
And then October 31st, during the closest approach, we are going to have a short track, when Goldstone is tra

13
00:01:08,560 --> 00:01:15,480

And, then a little bit later we are going to have this long track where Goldstone is transmitting and Green Bank

14
00:01:16,480 --> 00:01:19,520
At this point we expect to achieve our highest resolution images.