



1  
00:00:09,110 --> 00:00:07,010  
why is this taking the census of our

2  
00:00:10,640 --> 00:00:09,120  
solar neighborhood and no census would

3  
00:00:13,490 --> 00:00:10,650  
be complete without meeting your nearest

4  
00:00:15,650 --> 00:00:13,500  
neighbors the video that you're seeing

5  
00:00:18,050 --> 00:00:15,660  
is a progression of the wise survey as

6  
00:00:20,000 --> 00:00:18,060  
we go around the Sun you can imagine

7  
00:00:22,460 --> 00:00:20,010  
you're just sort of looking down on the

8  
00:00:25,040 --> 00:00:22,470  
solar system the red dots that you see

9  
00:00:27,380 --> 00:00:25,050  
are near earth objects ysus found

10  
00:00:29,540 --> 00:00:27,390  
several dozen new near-earth objects and

11  
00:00:32,150 --> 00:00:29,550  
they range in size from about as small

12  
00:00:35,450 --> 00:00:32,160  
as a decent sized house to as large as a

13  
00:00:37,220 --> 00:00:35,460

smallish Mountain there are about 150

14

00:00:39,139 --> 00:00:37,230

green dots in the animation and these

15

00:00:43,430 --> 00:00:39,149

represent previously known near-earth

16

00:00:45,860 --> 00:00:43,440

objects that weis has observed the

17

00:00:48,860 --> 00:00:45,870

yellow blocks represent comets wises

18

00:00:51,040 --> 00:00:48,870

observed several dozen so far we've also

19

00:00:53,000 --> 00:00:51,050

discovered around a dozen new comets

20

00:00:56,869 --> 00:00:53,010

most of what you're seeing in the

21

00:00:59,349 --> 00:00:56,879

animation are white dots asteroids wises

22

00:01:01,330 --> 00:00:59,359

observed 50,000 asteroids today about

23

00:01:03,680 --> 00:01:01,340

9,000 are new discoveries

24

00:01:05,299 --> 00:01:03,690

most of the white dots mark between the

25

00:01:07,520 --> 00:01:05,309

orbits of Mars and Jupiter these are the

26  
00:01:09,170 --> 00:01:07,530  
main belt asteroids but you can also see

27  
00:01:12,289 --> 00:01:09,180  
that there are two blobs of white dots

28  
00:01:14,929 --> 00:01:12,299  
that lie in the orbit of Jupiter these

29  
00:01:16,910 --> 00:01:14,939  
are called the Trojan asteroids one blob

30  
00:01:19,460 --> 00:01:16,920  
is gravitationally anchored to Jupiter

31  
00:01:21,140 --> 00:01:19,470  
ahead of it and the other blob is sort

32  
00:01:23,840 --> 00:01:21,150  
of following behind it in its orbit

33  
00:01:27,140 --> 00:01:23,850  
please always stay sixty degrees away

34  
00:01:29,719 --> 00:01:27,150  
from Jupiter why are they there are they

35  
00:01:31,789 --> 00:01:29,729  
the same with the wise mission we can

36  
00:01:34,130 --> 00:01:31,799  
now not only find new asteroids and

37  
00:01:36,170 --> 00:01:34,140  
comets but we can characterize them we

38  
00:01:38,359 --> 00:01:36,180

can learn more about their sizes their

39

00:01:40,580 --> 00:01:38,369

reflectivity x' their compositions and

40

00:01:42,050 --> 00:01:40,590

those properties of their surfaces while

41

00:01:44,389 --> 00:01:42,060

this is the end of the animation for

42

00:01:46,219 --> 00:01:44,399

today it's not the end of the story we

43

00:01:48,649 --> 00:01:46,229

expect to continue surveying through at

44

00:01:50,210 --> 00:01:48,659

least October so stay tuned because who