



**LARGEST COMET EVER
SPOTTED BY HUBBLE**

1
00:00:04,550 --> 00:00:02,149
nasa's hubble space telescope has

2
00:00:07,749 --> 00:00:04,560
determined the size of the largest icy

3
00:00:09,750 --> 00:00:07,759
comet nucleus ever found and it's big

4
00:00:12,549 --> 00:00:09,760
with a diameter of approximately 80

5
00:00:15,589 --> 00:00:12,559
miles across it's about 50 times larger

6
00:00:17,750 --> 00:00:15,599
than typical comets its 500 trillion ton

7
00:00:19,510 --> 00:00:17,760
mass is a hundred thousand times greater

8
00:00:21,349 --> 00:00:19,520
than the average comet

9
00:00:23,750 --> 00:00:21,359
the challenge was distinguishing the

10
00:00:26,550 --> 00:00:23,760
solid nucleus from the huge dusty coma

11
00:00:28,630 --> 00:00:26,560
enveloping it the comet is so far away

12
00:00:31,109 --> 00:00:28,640
that its nucleus is too small for hubble

13
00:00:34,069 --> 00:00:31,119

to resolve instead hubble found a bright

14

00:00:36,150 --> 00:00:34,079

spike of light at the nucleus's location

15

00:00:38,310 --> 00:00:36,160

astronomers made a computer model of the

16

00:00:40,549 --> 00:00:38,320

surrounding coma and adjusted it to fit

17

00:00:42,709 --> 00:00:40,559

the hubble images then the glow of the

18

00:00:44,790 --> 00:00:42,719

coma was subtracted leaving behind the

19

00:00:47,110 --> 00:00:44,800

star-like nucleus size was then

20

00:00:49,270 --> 00:00:47,120

estimated from its brightness

21

00:00:52,150 --> 00:00:49,280

the behemoth comet is barreling this way

22

00:00:54,150 --> 00:00:52,160

at 22 000 miles per hour but don't worry

23

00:00:56,389 --> 00:00:54,160

it won't get any closer than roughly 1