



(Artist concept)

NASA/JPL-Caltech

1
00:00:00,266 --> 00:00:01,300

[Music]

2
00:00:01,333 --> 00:00:04,037

"RARE DOUBLE ASTEROID REVEALED"

3
00:00:04,070 --> 00:00:07,106

"When asteroid 2017 YE5 was first observed in December 2017,

4
00:00:07,139 --> 00:00:10,276

details about its physical properties were unknown."

5
00:00:11,677 --> 00:00:14,814

"But new radar observations tell us the asteroid is not one,

6
00:00:14,847 --> 00:00:17,483

but two objects, orbiting each other."

7
00:00:17,516 --> 00:00:21,955

"Each object is about 3,000 feet (900 meters) wide."

8
00:00:22,422 --> 00:00:25,124

"The binary asteroid made its closest approach to Earth

9
00:00:25,157 --> 00:00:28,428

on June 21, 2017, coming to within 16 times

10
00:00:28,461 --> 00:00:31,598

the distance between Earth and the Moon."

11
00:00:33,199 --> 00:00:36,736

"NASA's Goldstone Solar System
Radar first detected that

12

00:00:36,769 --> 00:00:39,873

2017 YE5 could be two
distinct objects."

13

00:00:41,941 --> 00:00:45,044

"Joint radar observations by
the Arecibo Observatory and the

14

00:00:45,077 --> 00:00:48,081

Green Bank Observatory confirmed
the asteroid's double identity."

15

00:00:49,648 --> 00:00:52,385

"2017 YE5 is only the fourth
binary near-Earth asteroid

16

00:00:52,418 --> 00:00:54,720

ever observed in
which the two bodies

17

00:00:54,753 --> 00:00:57,590

are roughly the same size,
and not touching."

18

00:00:57,690 --> 00:01:02,862

"The two objects may have
different surface properties."

19

00:01:06,332 --> 00:01:08,201

[LOGO: NASA Jet
Propulsion Laboratory