RARE DOUBLE ASTEROID REVEALED

Jet Propulsion Laboratory
California Institute of Technology

1
00:00:00,000 --> 00:00:01,335
[Music]

2
00:00:01,335 --> 00:00:04,071
"RARE DOUBLE ASTEROID REVEALED"

3
00:00:04,071 --> 00:00:07,140
"When asteroid 2017 YE5 was
first observed in December 2017,

4
00:00:07,140 --> 00:00:10,277
details about its physical
properties were unknown."

5
00:00:11,678 --> 00:00:14,848
"But new radar observations
tell us the asteroid is not one,

6
00:00:14,848 --> 00:00:17,518
but two objects,
orbiting each other."

7
00:00:17,518 --> 00:00:21,955
"Each object is about 3,000 feet
(900 meters) wide."

8
00:00:22,422 --> 00:00:25,158
"The binary asteroid made its
closest approach to Earth

9
00:00:25,158 --> 00:00:28,462
on June 21, 2017, coming
to within 16 times

10
00:00:28,462 --> 00:00:31,598
the distance between
Earth and the Moon."

11
00:00:33,200 --> 00:00:36,770

"NASA's Goldstone Solar System
Radar first detected that

12
00:00:36,770 --> 00:00:39,873
2017 YE5 could be two
distinct objects."

13
00:00:41,942 --> 00:00:45,078
"Joint radar observations by
the Arecibo Observatory and the

14
00:00:45,078 --> 00:00:48,081
Green Bank Observatory confirmed
the asteroid’s double identity."

15
00:00:49,650 --> 00:00:52,419
"2017 YE5 is only the fourth
binary near-Earth asteroid

16
00:00:52,419 --> 00:00:54,755
ever observed in
which the two bodies

17
00:00:54,755 --> 00:00:57,591
are roughly the same size,
and not touching."

18
00:00:57,691 --> 00:01:02,796
"The two objects may have
different surface properties."

19
00:01:06,266 --> 00:01:08,168
[LOGO: NASA Jet
Propulsion Laboratory