Radar Images of Asteroid 2014 JO25

Jet Propulsion Laboratory
California Institute of Technology

1
00:00:00,500 --> 00:00:01,501
Radar Images of
Asteroid 2014 JO25

2
00:00:01,501 --> 00:00:02,502
NASA Jet Propulsion Laboratory

3
00:00:02,502 --> 00:00:03,370
California Institute
of Technology

4
00:00:04,271 --> 00:00:06,773
This movie of asteroid 2014 JO25
was generated on April 18, 2017,

5
00:00:06,773 --> 00:00:09,276
using radar images obtained
by NASA's 230-foot-wide

6
00:00:09,276 --> 00:00:11,445
(70-meter) Deep Space
Network antenna

7
00:00:11,445 --> 00:00:12,779
at Goldstone, California.

8
00:00:12,779 --> 00:00:15,282
The asteroid has a contact
binary structure --

9
00:00:15,282 --> 00:00:17,784
two lobes connected by
a neck-like region.

10
00:00:17,784 --> 00:00:20,020
The largest of the
asteroid's two lobes is

11
00:00:20,020 --> 00:00:22,322

estimated to be 2,000 feet
(610 meters) across.

12
00:00:22,322 --> 00:00:25,325
[■]

13
00:00:57,357 --> 00:00:59,359
The asteroid will approach to
within 1.1 million miles

14
00:00:59,359 --> 00:01:01,361
(1.8 million kilometers) of
Earth on April 19.

15
00:01:01,361 --> 00:01:03,363
The Goldstone observations were
conducted when the asteroid

16
00:01:03,363 --> 00:01:05,365
was 1.9 million miles (3 million
kilometers) from Earth.

17
00:01:05,365 --> 00:01:07,367
The resolution of the
radar images is about

18
00:01:07,367 --> 00:01:09,369
25 feet (7.5 meters) per pixel.

19
00:01:09,369 --> 00:01:11,705
There are no future flybys by
2014 JO25 as close as this one

20
00:01:11,705 --> 00:01:13,373
for more than 400 years.

21
00:01:13,373 --> 00:01:15,375
30 images were used
to create the movie

22
00:01:15,375 --> 00:01:17,377
shown at two different speeds.

23
00:01:18,612 --> 00:01:23,083
Image credit: NASA/JPL-Caltech