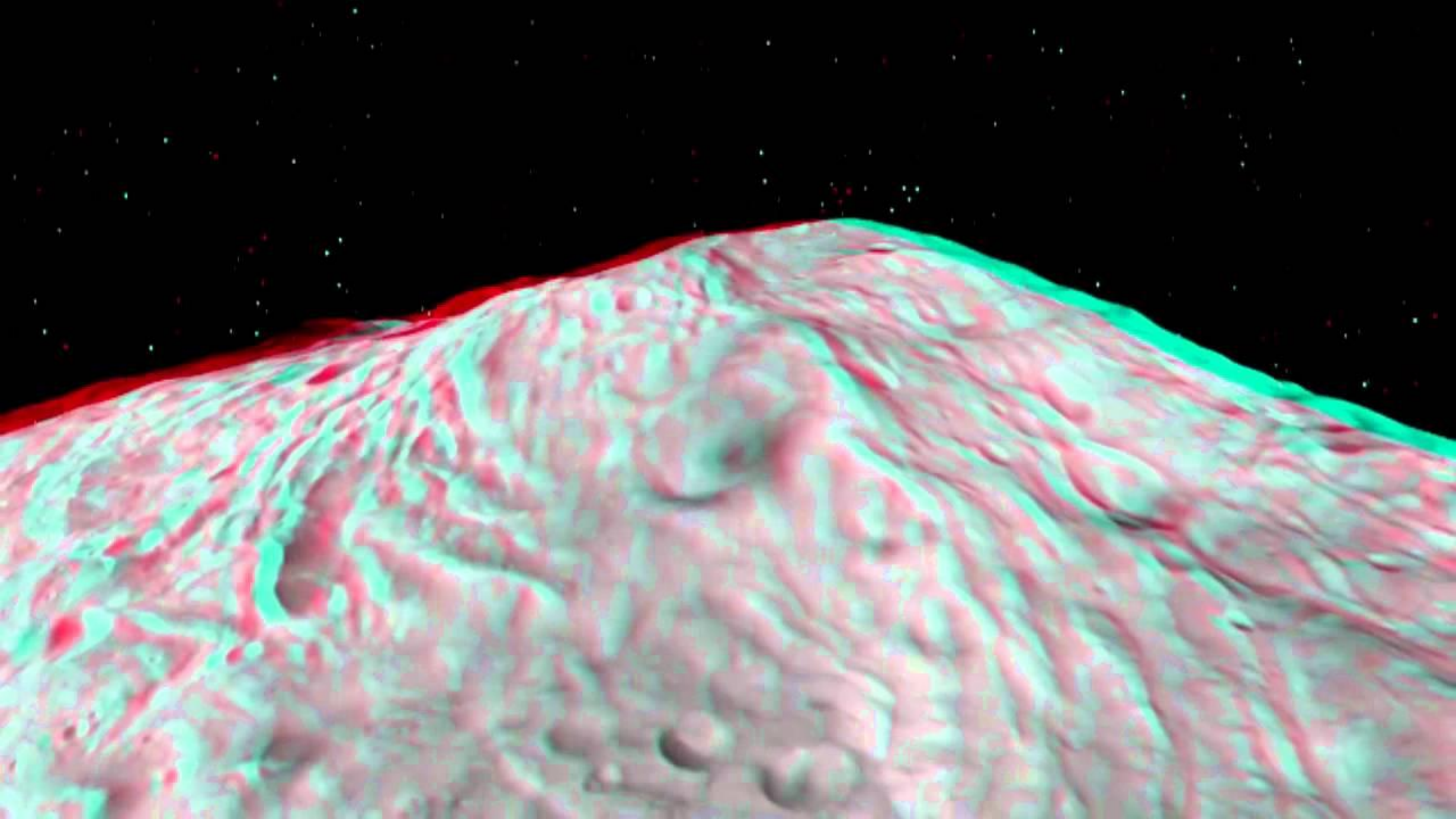

1
00:00:08,059 --> 00:00:03,919
put on your 3d glasses and let's take a

2
00:00:10,459 --> 00:00:08,069
look at Vesta this is asteroid Vesta a

3
00:00:13,089 --> 00:00:10,469
remnant protoplanet from the beginning

4
00:00:15,680 --> 00:00:13,099
of the solar system it's a very large

5
00:00:17,960 --> 00:00:15,690
oblate asteroid about five hundred and

6
00:00:19,490 --> 00:00:17,970
thirty kilometers in diameter and what

7
00:00:23,000 --> 00:00:19,500
you see here is that it's separated

8
00:00:25,009 --> 00:00:23,010
north to south by a set of troughs that

9
00:00:27,470 --> 00:00:25,019
ring the equator this is a very unusual

10
00:00:32,870 --> 00:00:27,480
feature that we're very interested in

11
00:00:35,569 --> 00:00:32,880
studying in the north of Vesta there's a

12
00:00:38,840 --> 00:00:35,579
large set of craters that we call the

13
00:00:41,030 --> 00:00:38,850

Snowman and this one at the bottom this

14
00:00:43,040 --> 00:00:41,040
large crater is named marcia it's a

15
00:00:45,740 --> 00:00:43,050
fairly recent crater that shows evidence

16
00:00:52,490 --> 00:00:45,750
of deeper material that has been

17
00:00:54,889 --> 00:00:52,500
excavated to the surface and here we're

18
00:00:56,720 --> 00:00:54,899
looking at the south polar basin the

19
00:00:58,310 --> 00:00:56,730
central mound which is one of the

20
00:01:00,799 --> 00:00:58,320
largest mountains in the solar system

21
00:01:02,950 --> 00:01:00,809
and about two and a half times the

22
00:01:06,950 --> 00:01:02,960
height of Mount Everest on the earth

23
00:01:09,670 --> 00:01:06,960
it's a cratered mound and also shows

24
00:01:12,109 --> 00:01:09,680
many features where material has slumped

25
00:01:14,690 --> 00:01:12,119
revealing fresher material underneath

26
00:01:17,840 --> 00:01:14,700
and here we can see one of those slumps

27
00:01:21,020 --> 00:01:17,850
and the scarp in the distance this mound

28
00:01:23,570 --> 00:01:21,030
is very unusual it has many grooves and

29
00:01:26,359 --> 00:01:23,580
lineation that were very interested in

30
00:01:27,830 --> 00:01:26,369
studying we're really excited that dawn

31
00:01:29,690 --> 00:01:27,840
is on its way to its lowest altitude

32
00:01:31,340 --> 00:01:29,700
mapping orbit where we're going to be