
NASA
BLACK HOLE
STAR FORMATION

1
00:00:05,030 --> 00:00:02,710
black holes get a bad rep they're seen

2
00:00:07,510 --> 00:00:05,040
as hungry monsters that gobble up

3
00:00:09,669 --> 00:00:07,520
planets and stars but nasa's hubble

4
00:00:12,470 --> 00:00:09,679
space telescope found new evidence of a

5
00:00:14,950 --> 00:00:12,480
black hole creating stars rather than

6
00:00:17,830 --> 00:00:14,960
destroying them hubble recently captured

7
00:00:20,710 --> 00:00:17,840
images of gas launched by a black hole

8
00:00:23,269 --> 00:00:20,720
and slamming into a dense cocoon of gas

9
00:00:25,670 --> 00:00:23,279
within a dwarf galaxy while black holes

10
00:00:27,750 --> 00:00:25,680
have monstrous gravitational pull

11
00:00:29,990 --> 00:00:27,760
material falling in toward the black

12
00:00:32,630 --> 00:00:30,000
hole can sometimes get redirected by

13
00:00:35,190 --> 00:00:32,640

magnetic fields into outflowing gas

14
00:00:37,350 --> 00:00:35,200
streams and jets the outflows of

15
00:00:40,310 --> 00:00:37,360
supermassive black holes in the center

16
00:00:42,709 --> 00:00:40,320
of larger galaxies are too fast to allow

17
00:00:45,430 --> 00:00:42,719
star formation but the black hole of

18
00:00:47,990 --> 00:00:45,440
this dwarf galaxy is smaller and its

19
00:00:51,510 --> 00:00:48,000
slower outflow compressed the dense

20
00:00:54,470 --> 00:00:51,520
cocoon of gas enough to create new stars

21
00:00:56,389 --> 00:00:54,480
dwarf galaxy black holes could serve as

22
00:00:58,310 --> 00:00:56,399
a comparison for black holes in the

23
00:01:00,549 --> 00:00:58,320
early universe when they were just

24
00:01:02,389 --> 00:01:00,559
beginning to form and grow

25
00:01:04,469 --> 00:01:02,399
while we don't have all the answers

26
00:01:06,630 --> 00:01:04,479
discoveries like this one set us on a