

1
00:00:00,000 --> 00:00:06,150
the Large Magellanic Cloud is the

2
00:00:02,700 --> 00:00:09,059
nearest dwarf galaxy to earth if we zoom

3
00:00:06,150 --> 00:00:12,509
into it with telescopic vision myriad

4
00:00:09,058 --> 00:00:15,349
stars become visible at the heart of the

5
00:00:12,509 --> 00:00:18,630
small galaxy is the tarantula nebula

6
00:00:15,349 --> 00:00:21,420
Hubble unveils a rich tapestry of star

7
00:00:18,629 --> 00:00:24,960
birth and star destruction among its

8
00:00:21,420 --> 00:00:28,130
millions of stars at the center of the

9
00:00:24,960 --> 00:00:29,969
nebula is a glittering cluster of over

10
00:00:28,129 --> 00:00:34,649
500,000 young stars

11
00:00:29,969 --> 00:00:38,700
it's called r136 and is only two million

12
00:00:34,649 --> 00:00:42,359
years old a neighboring star cluster

13
00:00:38,700 --> 00:00:45,930
Hadj 301 is at least 20 million years

14
00:00:42,359 --> 00:00:49,159
old it contains many aging red

15
00:00:45,929 --> 00:00:49,159
supergiant stars

16
00:00:52,710 --> 00:00:59,060
the expanding wave of debris is slamming

17
00:00:55,500 --> 00:01:01,140
into gas ejected by stars in r136

18
00:00:59,060 --> 00:01:05,210
creating a ridge of star formation

19
00:01:01,140 --> 00:01:05,210
between the two clusters

20
00:01:17,079 --> 00:01:24,700
the blast wave is blowing out turbulent

21
00:01:20,329 --> 00:01:24,700
shells of gas surrounding the cluster

22
00:01:30,730 --> 00:01:38,200
this region of 30 Doradus resembles a

23
00:01:34,000 --> 00:01:40,269
coral reef dense columns of gas several

24
00:01:38,200 --> 00:01:44,650
light years long protrude from the

25
00:01:40,269 --> 00:01:48,090
undulating gas they are incubators for

26
00:01:44,650 --> 00:01:48,090
developing stars

27
00:01:52,978 --> 00:01:58,560
the tarantula nebula is a unique stellar

28
00:01:55,859 --> 00:02:00,899
laboratory for observing close-up fire

29

00:01:58,560 --> 00:02:05,030
storms of star birth that must have been

30
00:02:00,899 --> 00:02:05,030
common in the early universe