



1
00:00:05,190 --> 00:00:03,830
sound suppression water system armed

2
00:00:06,550 --> 00:00:05,200
t-minus ten

3
00:00:07,349 --> 00:00:06,560
nine

4
00:00:08,310 --> 00:00:07,359
eight

5
00:00:10,390 --> 00:00:08,320
seven

6
00:00:11,350 --> 00:00:10,400
six

7
00:00:12,470 --> 00:00:11,360
four

8
00:00:13,509 --> 00:00:12,480
three

9
00:00:14,629 --> 00:00:13,519
two

10
00:00:18,310 --> 00:00:14,639
one

11
00:00:20,390 --> 00:00:18,320
and liftoff of space shuttle atlantis a

12
00:00:22,790 --> 00:00:20,400
final visit to enhance the vision of

13
00:00:29,990 --> 00:00:22,800

hubble into the deepest grandeur of our

14

00:00:33,990 --> 00:00:31,990

bypass across the board scooter no

15

00:00:36,150 --> 00:00:34,000

action

16

00:00:52,950 --> 00:00:36,160

houston now controlling atlantis on its

17

00:00:57,110 --> 00:00:54,950

atlantis on its way all three engines

18

00:00:58,709 --> 00:00:57,120

now throttling down as the area begins

19

00:01:01,590 --> 00:00:58,719

as the vehicle passes through the area

20

00:01:05,109 --> 00:01:01,600

of maximum dynamic pressure

21

00:01:22,230 --> 00:01:05,119

atlantis houston no action on the mps h2

22

00:01:22,240 --> 00:01:29,190

seven miles in altitude

23

00:01:29,200 --> 00:01:38,789

altitude 49 000 feet

24

00:01:42,950 --> 00:01:40,870

flight control team discussing the minor

25

00:01:44,710 --> 00:01:42,960

transients that we're seeing at liftoff

26
00:01:51,590 --> 00:01:44,720
all three engines are in good shape the

27
00:01:56,310 --> 00:01:53,350
all three hydraulic systems in good

28
00:01:59,190 --> 00:01:56,320
shape as are the fuel cells

29
00:02:02,550 --> 00:01:59,200
atlantis is 18 miles uh and altitude

30
00:02:05,910 --> 00:02:02,560
downrange 23 miles

31
00:02:07,990 --> 00:02:05,920
already traveling 2500 miles per hour

32
00:02:09,910 --> 00:02:08,000
approaching staging the burnout of the

33
00:02:12,150 --> 00:02:09,920
twin solid rocket boosters which have

34
00:02:31,430 --> 00:02:12,160
been burning fuel at a rate of about 11

35
00:02:35,750 --> 00:02:33,190
sell the rocket boosters have done their

36
00:02:37,670 --> 00:02:35,760
job atlantis is continuing in its due