



1  
00:00:17,450 --> 00:00:14,060  
t-minus 10 9 8 7 6 liftoff of space

2  
00:00:20,240 --> 00:00:17,460  
shuttle Atlantis mission bill resupply

3  
00:00:22,339 --> 00:00:20,250  
and to do research on the International

4  
00:00:24,279 --> 00:00:22,349  
Space Station

5  
00:00:26,109 --> 00:00:24,289  
just inhale controlling

6  
00:00:29,429 --> 00:00:26,119  
begins its penultimate journey to shore

7  
00:00:32,830 --> 00:00:31,659  
Atlantis now in the proper alignment for

8  
00:00:34,630 --> 00:00:32,840  
its eight and a half minute line to

9  
00:00:36,280 --> 00:00:34,640  
orbit four-and-a-half million pounds of

10  
00:00:41,550 --> 00:00:36,290  
hardware and humans taking aim on the

11  
00:00:46,500 --> 00:00:44,400  
thirty seconds into the flight Atlantis

12  
00:00:47,880 --> 00:00:46,510  
almost two miles in altitude almost six

13  
00:00:49,680 --> 00:00:47,890

miles downrange from the Kennedy Space

14

00:00:54,780 --> 00:00:49,690

Center already traveling five hundred

15

00:00:56,580 --> 00:00:54,790

miles an hour the three liquid fuel main

16

00:00:58,229 --> 00:00:56,590

engines now throttling back to 72

17

00:00:59,729 --> 00:00:58,239

percent of rated performance going into

18

00:01:00,930 --> 00:00:59,739

the bucket reducing the stress on the

19

00:01:07,650 --> 00:01:00,940

shuttle as it breaks through the sound

20

00:01:09,750 --> 00:01:07,660

barrier fifty-five seconds into the

21

00:01:11,700 --> 00:01:09,760

flight all systems operating normally

22

00:01:13,290 --> 00:01:11,710

nine hundred miles an hour the speed of

23

00:01:16,560 --> 00:01:13,300

Atlantis right now six miles in altitude

24

00:01:22,320 --> 00:01:16,570

nine miles downrange Atlantis

25

00:01:23,580 --> 00:01:22,330

go with throttle up the throttle up call

26

00:01:25,200 --> 00:01:23,590

acknowledged by commander Charlie

27

00:01:26,940 --> 00:01:25,210

hobaugh joined on the flight deck by

28

00:01:29,219 --> 00:01:26,950

pilot butch wilmore flight engineer

29

00:01:30,660 --> 00:01:29,229

Randy Bresnik and Leland Melvin seated

30

00:01:32,730 --> 00:01:30,670

down on the mid-deck or Mike Foreman and

31

00:01:38,160 --> 00:01:32,740

Bobby Satcher kicking off their work

32

00:01:39,840 --> 00:01:38,170

week with a Monday commute to orbit one

33

00:01:42,240 --> 00:01:39,850

minute thirty seconds into the flight

34

00:01:44,430 --> 00:01:42,250

Atlantis 13 miles in altitude fifteen

35

00:01:52,080 --> 00:01:44,440

miles downrange traveling almost 2,000

36

00:01:53,910 --> 00:01:52,090

miles an hour three good auxiliary power

37

00:02:03,210 --> 00:01:53,920

units three good fuel cells three good

38

00:02:05,999 --> 00:02:03,220

main engines one minute 50 seconds into

39

00:02:20,850 --> 00:02:06,009

the flight 10 seconds away from solid

40

00:02:25,360 --> 00:02:23,470

booster officer confirms staging a good

41

00:02:27,370 --> 00:02:25,370

solid rocket booster separation guidance

42

00:02:29,590 --> 00:02:27,380

now converging Atlanta steering into the