



1

00:00:02,430 --> 00:00:04,730

\h Launch Commentator George Diller: Go for main engine start.

2

00:00:04,730 --> 00:00:05,890

\h T-10

3

00:00:05,890 --> 00:00:06,740

\h 9

4

00:00:06,740 --> 00:00:07,460

\h 8

5

00:00:07,460 --> 00:00:08,370

\h 7

6

00:00:08,370 --> 00:00:09,350

\h 6

7

00:00:09,350 --> 00:00:10,040

\h (Roar of engines igniting)

8

00:00:10,040 --> 00:00:11,550

\h 5

9

00:00:11,550 --> 00:00:13,970

\h All three engines up and burning.

10

00:00:13,970 --> 00:00:14,790

\h Two

11

00:00:14,790 --> 00:00:15,690

\h One

12

00:00:15,690 --> 00:00:17,480

\h zero and liftoff!

13

00:00:17,480 --> 00:00:21,750

\h The final liftoff of Atlantis. On the shoulders of the space shuttle,

14

00:00:21,750 --> 00:00:25,510

\h America will continue the dream.

15

00:00:25,510 --> 00:00:27,430

\h Commander Chris Ferguson: Roll program, Houston.

16

00:00:27,430 --> 00:00:30,160

\h CAPCOM Barry Wilmore: Roger Roll, Atlantis.

17

00:00:30,160 --> 00:00:32,590

\h Flight Commentator Rob Navius: Houston now controlling the flight of Atlantis.

18

00:00:32,590 --> 00:00:35,780

\h The space shuttle spreads its wings one final time for the start of a

19

00:00:35,780 --> 00:00:39,910

\h sentimental journey into history.

20

00:00:39,910 --> 00:00:43,130

\h Twenty-four seconds into the flight, roll program complete,

21

00:00:43,130 --> 00:00:46,840

\h Atlantis now heads-down, wings level on the proper alignment for its eight-and-half

22

00:00:46,840 --> 00:00:48,400

\h minute ride into orbit.

23

00:00:48,400 --> 00:00:51,100

\h Four and half million pounds of hardware and humans taking aim on the

24

00:00:51,100 --> 00:00:55,110

\h International Space Station.

25

00:00:55,110 --> 00:00:58,600

\h Forty seconds in to the flight, the three liquid-fueled main engines throttling back to

26

00:00:58,600 --> 00:01:02,390

\h 72 percent of their rated performance in the bucket, reducing stress on the shuttle

27

00:01:02,390 --> 00:01:08,270

\h as it goes transonic for the final time.

28

00:01:08,270 --> 00:01:27,040

\h Engines now revving up, standing by for the throttle-up call.

29

00:01:27,040 --> 00:01:32,800

\h CAPCOM Barry Wilmore: Atlantis, go at throttle up, no action DTTD.

30

00:01:32,800 --> 00:01:35,920

\h Commander Chris Ferguson: Go at throttle up, no action on the DTTD.

31

00:01:35,920 --> 00:01:38,330

\h Flight Commentator Rob Navius: That call from CAPCOM Barry Wilmore a transducer,

32

00:01:38,330 --> 00:01:47,350

\h instrumentation only, no action required.

33

00:01:47,350 --> 00:01:51,380

\h Atlantis now 15 miles in altitude, already 16 miles downrange from the

34

00:01:51,380 --> 00:01:56,740

\h Kennedy Space Center, one minute, 40 seconds into the flight.

35

00:01:56,740 --> 00:02:02,320

\h Atlantis flexing its muscles one final time.

36

00:02:02,320 --> 00:02:08,370

\h Atlantis traveling almost 2,600 mph, 21 miles in altitude, 24 miles downrange.

37

00:02:08,370 --> 00:02:23,710

\h Standing by for solid rocket booster separation.

38

00:02:23,710 --> 00:02:27,380

\h Booster officer confirms staging, a good solid rocket booster separation,