



1  
00:00:00,520 --> 00:00:09,210

you

2  
00:00:17,760 --> 00:00:12,839

here's our commander Chris Ferguson he's

3  
00:00:22,440 --> 00:00:17,770

in the suit-up room he's having a fit

4  
00:00:27,000 --> 00:00:22,450

check of his helmet pilot Doug Hurley

5  
00:00:28,679 --> 00:00:27,010

this is his second trip into space he

6  
00:00:32,159 --> 00:00:28,689

completed his first spaceflight on

7  
00:00:35,310 --> 00:00:32,169

sts-127 he's logged more than 300 76

8  
00:00:39,630 --> 00:00:35,320

hours in space mission specialist number

9  
00:00:42,389 --> 00:00:39,640

one sandy Magnus this is her third

10  
00:00:44,430 --> 00:00:42,399

spaceflight she spent more than four

11  
00:00:48,479 --> 00:00:44,440

months in space aboard the International

12  
00:00:50,819 --> 00:00:48,489

Space Station this is Rex Walheim he's

13  
00:00:53,639 --> 00:00:50,829

our mission specialist number two he's

14

00:00:58,170 --> 00:00:53,649

making his third spaceflight he spent

15

00:01:01,529 --> 00:00:58,180

more than 24 days in space on sts-1 10

16

00:01:38,539 --> 00:01:01,539

and sts-122 and he's had five spacewalks

17

00:01:42,090 --> 00:01:40,800

got a great shot of Doug here over on

18

00:01:43,050 --> 00:01:42,100

the right he's looking over pretty much

19

00:01:44,279 --> 00:01:43,060

directly at the camera what he's

20

00:01:45,779 --> 00:01:44,289

actually looking at he's got a checklist

21

00:01:48,029 --> 00:01:45,789

over there he's taking a look at and

22

00:01:50,190 --> 00:01:48,039

he's talking with Fergie right now on

23

00:01:55,000 --> 00:01:50,200

the intercom

24

00:02:07,930 --> 00:01:55,010

okay CMS to concept and that's OTC I got

25

00:02:10,420 --> 00:02:07,940

you loud and clear how me so that was

26

00:02:11,650 --> 00:02:10,430

our last competition you can see Rex

27

00:02:13,120 --> 00:02:11,660

after the first comp check is bringing

28

00:02:14,830 --> 00:02:13,130

his visor down and locking it with that

29

00:02:16,660 --> 00:02:14,840

bar that comes down and that's what

30

00:02:17,830 --> 00:02:16,670

makes the seal airtight and now I'll be

31

00:02:20,560 --> 00:02:17,840

known as communication check with the

32

00:02:23,550 --> 00:02:20,570

NASA test director here at Florida and

33

00:02:30,130 --> 00:02:23,560

then with Mission Control in Houston

34

00:02:41,860 --> 00:02:30,140

firing chain is armed go for main engine

35

00:02:45,460 --> 00:02:41,870

starting t-minus 10 9 burning two one

36

00:02:48,010 --> 00:02:45,470

zero and liftoff the final liftoff of

37

00:02:53,500 --> 00:02:48,020

Atlantis shoulders of the Space Shuttle

38

00:02:58,130 --> 00:02:56,020

Roger are with Lana

39

00:03:00,530 --> 00:02:58,140

Houston now controlling the flight of

40

00:03:02,630 --> 00:03:00,540

Atlantis Space Shuttle spreads its wings

41

00:03:07,250 --> 00:03:02,640

one final time for the start of a

42

00:03:09,080 --> 00:03:07,260

Sentimental Journey into history 24

43

00:03:11,390 --> 00:03:09,090

seconds into the flight roll program

44

00:03:13,100 --> 00:03:11,400

complete atlantis now heads down wings

45

00:03:14,170 --> 00:03:13,110

level on the proper alignment for its

46

00:03:16,250 --> 00:03:14,180

eight and a half minute ride to orbit

47

00:03:17,900 --> 00:03:16,260

four and a half million pounds of

48

00:03:22,460 --> 00:03:17,910

hardware and humans taking aim on the

49

00:03:24,320 --> 00:03:22,470

International Space Station 40 seconds

50

00:03:26,270 --> 00:03:24,330

into the flight the three liquid fuel

51  
00:03:27,860 --> 00:03:26,280  
main engines throttling back to 72

52  
00:03:29,720 --> 00:03:27,870  
percent of rated performance in the

53  
00:03:34,390 --> 00:03:29,730  
bucket reducing stress on the shuttle as

54  
00:03:46,160 --> 00:03:37,040  
engines now revving up standing by for

55  
00:03:48,350 --> 00:03:46,170  
the throttle up call booster officer

56  
00:03:50,180 --> 00:03:48,360  
confirms staging a good solid rocket

57  
00:03:52,430 --> 00:03:50,190  
booster separation guidance now

58  
00:03:54,020 --> 00:03:52,440  
converging the main engine steering the

59  
00:03:56,660 --> 00:03:54,030  
shuttle on a pinpoint path to its

60  
00:03:57,229 --> 00:03:56,670  
preliminary orbit two minutes 20 seconds

61  
00:03:59,900 --> 00:03:57,239  
into the flight

62  
00:04:02,479 --> 00:03:59,910  
Atlantis already traveling 3,200 miles

63  
00:04:10,490 --> 00:04:02,489

an hour 35 miles in altitude 50 miles

64

00:04:11,990 --> 00:04:10,500

downrange and the guidance officer here

65

00:04:13,370 --> 00:04:12,000

in Mission Control confirms that the

66

00:04:21,590 --> 00:04:13,380

computers are commanding the main

67

00:04:23,510 --> 00:04:21,600

engines to swivel we've rolled to a

68

00:04:25,159 --> 00:04:23,520

heads-up position now providing better

69

00:04:27,920 --> 00:04:25,169

communications to the tracking and data

70

00:04:32,120 --> 00:04:27,930

relay satellite system as Atlantis heads

71

00:04:38,030 --> 00:04:32,130

uphill six minutes 20 seconds into the

72

00:04:41,390 --> 00:04:38,040

flight booster officer confirms main

73

00:04:42,950 --> 00:04:41,400

engine cutoff for the last time the

74

00:04:45,350 --> 00:04:42,960

space shuttles main engines have fallen

75

00:04:47,570 --> 00:04:45,360

silent as the shuttle slips into the

76

00:04:50,870 --> 00:04:47,580

final chapter of a storied 30-year

77

00:05:01,350 --> 00:04:50,880

adventure now standing by for external

78

00:05:06,029 --> 00:05:04,379

atlantis off the tank commander Chris

79

00:05:08,339 --> 00:05:06,039

Ferguson will be maneuvering Atlantis

80

00:05:10,589 --> 00:05:08,349

now into an orientation to enable sandy

81

00:05:12,270 --> 00:05:10,599

Magnus to capture digital still imagery

82

00:05:15,059 --> 00:05:12,280

of the external fuel tank as it drifts