



1
00:00:00,910 --> 00:01:03,070
(Music)

2
00:01:03,070 --> 00:01:06,270
NASA Test Director: And attention all personnel. This is the NTD conducting the launch status check.

3
00:01:06,270 --> 00:01:08,400
Verify ready to resume count and go for launch. OTC.

4
00:01:08,400 --> 00:01:10,640
Orbiter Test Conductor: OTC is go.

5
00:01:10,640 --> 00:01:11,170
NASA Test Director: TBC.

6
00:01:11,170 --> 00:01:12,540
Tank/Booster Test Conductor: Tank and booster go.

7
00:01:12,540 --> 00:01:13,690
NASA Test Director: PTC.

8
00:01:13,690 --> 00:01:14,720
Payload Test Conductor: PTC is go.

9
00:01:14,720 --> 00:01:15,230
NASA Test Director: LPS.

10
00:01:15,230 --> 00:01:16,240
Launch Processing System Test Conductor: LPS is go.

11
00:01:16,240 --> 00:01:16,760
NASA Test Director: MILA.

12
00:01:16,760 --> 00:01:18,200
Merritt Island Launch Annex: MILA is go.

13
00:01:18,200 --> 00:01:18,770

NASA Test Director: STM.

14

00:01:18,770 --> 00:01:19,660

Support Test Manager: STM is go.

15

00:01:19,660 --> 00:01:20,350

NASA Test Director: Safety console.

16

00:01:20,350 --> 00:01:22,100

Safety Console Coordinator: Safety console is go.

17

00:01:22,100 --> 00:01:22,900

NASA Test Director: SPE.

18

00:01:22,900 --> 00:01:24,520

Shuttle Project Engineer: SPE is go.

19

00:01:24,520 --> 00:01:25,050

NASA Test Director: LRD.

20

00:01:25,050 --> 00:01:26,760

Landing and Recovery Director: LRD is go.

21

00:01:26,760 --> 00:01:27,570

NASA Test Director: SRO.

22

00:01:27,570 --> 00:01:30,570

Superintendent of Range Operations: SRO is go. You have a range clear to launch.

23

00:01:30,570 --> 00:01:32,090

NASA Test Director: And CDR.

24

00:01:32,090 --> 00:01:34,780

Commander Chris Ferguson: CDR is go.

25

00:01:34,780 --> 00:01:38,110

NASA Test Director: And launch director, NTD. Our launch team is ready to proceed.

26

00:01:38,110 --> 00:01:41,550

Launch Director Mike Leinbach: I copy that. I'll do my poll at this time. KSC Chief Processing Engineer,

27

00:01:41,550 --> 00:01:44,280

verify no constraints to launch. KSC Chief Processing Engineer: No constraints.

28

00:01:44,280 --> 00:01:47,020

Launch Director Mike Leinbach: Thank you, Steve. KSC Safety and Mission Assurance.

29

00:01:47,020 --> 00:01:48,560

KSC Safety and Mission Assurance: Safety and Mission Assurance is go, Mike.

30

00:01:48,560 --> 00:01:50,540

Launch Director Mike Leinbach: Thank you, Terry. Payload Launch Manager.

31

00:01:50,540 --> 00:01:52,960

Payload Launch Manager: Hey, Mike. On behalf of the ISS ground payload processing team,

32

00:01:52,960 --> 00:01:57,210

I want to say thanks to you and the shuttle team. It's been a great partnership, and we are go.

33

00:01:57,210 --> 00:01:59,380

Launch Director Mike Leinbach: Thank you, Bill. Appreciate that. Range Weather.

34

00:01:59,380 --> 00:02:01,500

Shuttle Launch Weather Officer: Launch weather has no constraints for launch.

35

00:02:01,500 --> 00:02:04,990

Launch Director Mike Leinbach: Thank you, Kathy. Atlantis Flow Director.

36

00:02:04,990 --> 00:02:09,040

Atlantis Flow Director: On behalf of the KSC civil processing team, we are go.

37

00:02:09,040 --> 00:02:12,600

Launch Director Mike Leinbach: Thank you, Angie. Atlantis, launch director, air-to-ground 1.

38

00:02:12,600 --> 00:02:15,490

Commander Chris Ferguson: Atlantis, go.

39

00:02:15,490 --> 00:02:19,330

Launch Director Mike Leinbach: Ok, Fergie, we're starting to feel pretty good down here on the ground about th

40

00:02:19,330 --> 00:02:27,050

so on behalf of the greatest team in the world, good luck to you and your crew on the final flight of this true Am

41

00:02:27,050 --> 00:02:36,400

And so for the final time, Fergie, Doug, Sandy and Rex, good luck, Godspeed and have a little fun up there.

42

00:02:36,400 --> 00:02:40,960

Commander Chris Ferguson: Hey, thanks to you and your team, Mike, and till the very end you all made it look

43

00:02:40,960 --> 00:02:46,970

The shuttle's always going to be a reflection of what a great nation can do when it dares to be bold and commit

44

00:02:46,970 --> 00:02:51,750

We're not ending the journey today, Mike, we're completing a chapter of a journey that will never end.

45

00:02:51,750 --> 00:02:54,440

You and the thousands of men and women who gave their hearts,

46

00:02:54,440 --> 00:02:58,650

souls and their lives to the cause of exploration have rewritten history.

47

00:02:58,650 --> 00:03:07,480

Let's light this fire one more time, Mike, and witness this great nation at its best. The crew of Atlantis is ready fo

48

00:03:07,480 --> 00:03:11,460

Ground Launch Sequencer Engineer: GLS is go for orbiter access arm retract.

49

00:03:11,460 --> 00:03:16,360

Orbiter Test Conductor: Atlantis, this is the OTC. This day has been over 30 years in the making.

50

00:03:16,360 --> 00:03:22,980

There have been many fabulous missions throughout the years. On behalf of KSC launch teams past and pres

51

00:03:22,980 --> 00:03:29,670

we salute the entire astronaut corps for their dedication, not only for our expanded knowledge of the universe,

52

00:03:29,670 --> 00:03:36,280

but for the improvement you have contributed to on Earth. Have an excellent mission and Godspeed.

53

00:03:36,280 --> 00:03:43,550

Commander Chris Ferguson: Good words, Roberta. Thank you very much. (Inaudible)

54

00:03:43,550 --> 00:03:45,240

Ground Launch Sequencer Engineer: Auto-sequence start.

55

00:03:45,240 --> 00:03:48,890

Launch Commentator George Diller: The handoff to Atlantis' onboard computers has occurred.

56

00:03:48,890 --> 00:03:52,430

Solid rocket booster nozzle steering check in work.

57

00:03:52,430 --> 00:04:00,080

Firing chain is armed.

58

00:04:00,080 --> 00:04:06,410

Launch Commentator George Diller: Go for main engine start. T-10, 9, 8, 7, 6,

59

00:04:06,410 --> 00:04:09,120

(Roar of engines igniting)

60

00:04:09,120 --> 00:04:15,220

5, all three engines up and burning... 2, 1, zero and liftoff!

61

00:04:15,220 --> 00:04:23,100

The final liftoff of Atlantis. On the shoulders of the space shuttle, America will continue the dream.

62

00:04:23,100 --> 00:04:24,910

Commander Chris Ferguson: Roll program, Houston.

63

00:04:24,910 --> 00:04:27,440

CAPCOM Barry Wilmore: Roger Roll, Atlantis.

64

00:04:27,440 --> 00:04:30,230

Flight Commentator Rob Navias: Houston now controlling the flight of Atlantis.

65

00:04:30,230 --> 00:04:37,660

The space shuttle spreads its wings one final time for the start of a sentimental journey into history.

66

00:04:37,660 --> 00:04:41,860

Twenty-four seconds into the flight, roll program complete, Atlantis now heads-down,

67

00:04:41,860 --> 00:04:45,950

wings level on the proper alignment for its eight-and-a-half-minute ride to orbit.

68

00:04:45,950 --> 00:04:52,730

Four-and-a-half-million pounds of hardware and humans taking aim on the International Space Station.

69

00:04:52,730 --> 00:04:58,420

Forty seconds into the flight, the three liquid-fueled main engines throttling back to 72 percent of rated performance.

70

00:04:58,420 --> 00:05:05,230

in the bucket, reducing stress on the shuttle as it goes transonic for the final time.

71

00:05:05,230 --> 00:05:10,780

Atlantis flexing its muscles one final time.

72

00:05:10,780 --> 00:05:16,840

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

73

00:05:16,840 --> 00:05:38,190

Standing by for solid rocket booster separation.

74

00:05:38,190 --> 00:05:41,020

(Two sonic booms)

75

00:05:41,020 --> 00:05:43,010

Commander Chris Ferguson: Hey, field in sight, Houston.

76

00:05:43,010 --> 00:05:50,330

CAPCOM Barry Wilmore: Copy, Atlantis. Field in sight.

77

00:05:50,330 --> 00:05:52,700

Descent Commentator Rob Navias: Landing gear down and locked.

78

00:05:52,700 --> 00:06:01,240

Main gear touchdown. (Pilot Doug) Hurley now deploying the drag chute.

79

00:06:01,240 --> 00:06:03,800

(Commander Chris) Ferguson rotating the nose gear down to the deck.

80

00:06:03,800 --> 00:06:07,150

Nose gear touchdown.

81

00:06:07,150 --> 00:06:11,210

Descent Commentator Rob Navias: Having fired the imagination of a generation, a ship like no other,

82

00:06:11,210 --> 00:06:48,950

its place in history secured, the space shuttle pulls into port for the last time. Its voyage, at an end.

83

00:06:48,950 --> 00:06:52,740

Commander Chris Ferguson: Mission complete, Houston. After serving the world for over 30 years,

84

00:06:52,740 --> 00:06:58,760

the space shuttle found its place in history. It's come to a final stop.

85

00:06:58,760 --> 00:07:03,400

CAPCOM Barry Wilmore: We copy your wheel stop and we'll take this opportunity to congratulate you Atlantis,

86

00:07:03,400 --> 00:07:08,820

as well as the thousands of passionate individuals across this great space-faring nation,

87

00:07:08,820 --> 00:07:11,930

who truly empowered this incredible spacecraft,

88

00:07:11,930 --> 00:07:20,100

which for three decades has inspired millions around the globe. Job well done America.

89

00:07:20,100 --> 00:07:22,140

Commander Chris Ferguson: Hey, thanks Butch. Great words, great words.

90

00:07:22,140 --> 00:07:29,070

You know the space shuttle has changed the way we view the world, and it's changed the way we view our uni

91

00:07:29,070 --> 00:07:32,030

There's a lot of emotion today, but one thing's indisputable.

92

00:07:32,030 --> 00:07:39,140

America's not going to stop exploring. Thank you Columbia, Challenger, Discovery, Endeavour, and our ship, A