



1
00:00:06,150 --> 00:00:04,470
alpha and houston atlantis commencing

2
00:00:07,030 --> 00:00:06,160
the rpm in three

3
00:00:16,630 --> 00:00:07,040
two

4
00:00:16,640 --> 00:00:26,150
atlantis or alpha copy rpm

5
00:00:30,150 --> 00:00:28,230
and with that call the rendezvous pitch

6
00:00:34,229 --> 00:00:30,160
maneuver started steve frick at the

7
00:00:35,990 --> 00:00:34,239
controls for this nine minute maneuver

8
00:00:42,229 --> 00:00:36,000
rotating the vehicle at three quarters

9
00:00:46,709 --> 00:00:44,869
expedition 16 crew located in the

10
00:00:48,950 --> 00:00:46,719
russian segment of the international

11
00:00:50,790 --> 00:00:48,960
space station specifically the zvezda

12
00:00:52,790 --> 00:00:50,800
service module where peggy whitson and

13
00:00:55,510 --> 00:00:52,800

yuri malenchenko poised with still

14

00:00:57,350 --> 00:00:55,520

digital cameras and gathering detailed

15

00:01:18,310 --> 00:00:57,360

imagery of both the upper surfaces and

16

00:01:21,749 --> 00:01:19,670

the international space station with the

17

00:01:24,230 --> 00:01:21,759

atlantis directly beneath it is just

18

00:01:26,550 --> 00:01:24,240

crossing over the north east coast of

19

00:01:28,070 --> 00:01:26,560

central america the two will now be

20

00:01:30,630 --> 00:01:28,080

traveling over

21

00:01:33,990 --> 00:01:30,640

the southern atlantic ocean traveling 17

22

00:02:03,990 --> 00:01:34,000

500 miles per hour at an altitude of 205

23

00:02:08,469 --> 00:02:06,310

whitson is using a 400 millimeter lens

24

00:02:10,389 --> 00:02:08,479

providing up to three inch resolution

25

00:02:12,710 --> 00:02:10,399

and yuri malenchenko using a 800

26
00:02:15,670 --> 00:02:12,720
millimeter lens providing up to one inch

27
00:02:17,430 --> 00:02:15,680
resolution the imagery is to include the

28
00:02:19,910 --> 00:02:17,440
upper surfaces of the shuttle as well as

29
00:02:22,070 --> 00:02:19,920
atlantis underside capturing pictures of

30
00:02:23,750 --> 00:02:22,080
the nose landing gear door seals the

31
00:02:53,750 --> 00:02:23,760
main landing gear door seals and the

32
00:02:58,470 --> 00:02:55,509
the imagery from this

33
00:03:01,190 --> 00:02:58,480
rendezvous pitch maneuver is expected to

34
00:03:02,550 --> 00:03:01,200
result in about 300 detailed photos and

35
00:03:04,229 --> 00:03:02,560
they're just one of the additional

36
00:03:05,430 --> 00:03:04,239
inspection techniques to help determine

37
00:03:07,670 --> 00:03:05,440
the health of the shuttle's thermal

38
00:03:10,070 --> 00:03:07,680

protection system the photos will later

39

00:03:11,830 --> 00:03:10,080

be downlinked to the station's ku band

40

00:03:55,270 --> 00:03:11,840

communication system for analysis by

41

00:03:55,280 --> 00:04:26,550

uh

42

00:04:29,909 --> 00:04:28,710

that last call the voice of pilot alan

43

00:04:32,070 --> 00:04:29,919

poindexter

44

00:04:36,710 --> 00:04:32,080

calling uh to alert the station crew

45

00:04:40,469 --> 00:04:38,950

again whitson and malenchen go poised

46

00:04:42,230 --> 00:04:40,479

with their cameras

47

00:04:43,990 --> 00:04:42,240

and ready to proceed with a very

48

00:04:46,150 --> 00:04:44,000

methodical pattern of photography to

49

00:05:07,350 --> 00:04:46,160

ensure they capture all the required

50

00:05:13,270 --> 00:05:11,749

atlantis relay alpha copy

51
00:05:15,830 --> 00:05:13,280
that concluding the

52
00:05:17,430 --> 00:05:15,840
photo session about 90 seconds worth of

53
00:05:19,029 --> 00:05:17,440
usable photography time for the

54
00:05:21,510 --> 00:05:19,039
underside of space shuttle atlantis the

55
00:05:27,350 --> 00:05:21,520
rendezvous pitch maneuver starting at 10

56
00:05:31,350 --> 00:05:30,150
photo sequence starting at 10 27 a.m

57
00:05:33,110 --> 00:05:31,360
central time

58
00:05:40,390 --> 00:05:33,120
they're continuing now with that pitch

59
00:05:45,430 --> 00:05:42,150
two vehicles making their way over the

60
00:05:47,830 --> 00:05:45,440
southern atlantic ocean traveling 17 500

61
00:05:51,270 --> 00:05:47,840
miles per hour

62
00:09:18,470 --> 00:05:51,280
and atlantis continuing about 600 feet

63
00:09:22,389 --> 00:09:20,389

this is mission control houston

64

00:09:24,710 --> 00:09:22,399

you're seeing the av port of space

65

00:09:26,710 --> 00:09:24,720

shuttle atlantis now look with its open