



# Space to Ground

1  
00:00:05,889 --> 00:00:02,790  
foreign

2  
00:00:09,049 --> 00:00:05,899  
[Music]

3  
00:00:11,209 --> 00:00:09,059  
I'm Kayla LaFrance today we're coming to

4  
00:00:13,009 --> 00:00:11,219  
you from Space Center Houston the

5  
00:00:15,770 --> 00:00:13,019  
official Visitor Center of NASA's

6  
00:00:26,150 --> 00:00:15,780  
Johnson Space Center and this is America

7  
00:00:31,130 --> 00:00:28,490  
tweet we are celebrating the 50th

8  
00:00:33,470 --> 00:00:31,140  
anniversary of the Apollo 17 Mission the

9  
00:00:35,990 --> 00:00:33,480  
last human mission to the moon and the

10  
00:00:38,049 --> 00:00:36,000  
Splashdown of Artemis 1 marking the

11  
00:00:41,150 --> 00:00:38,059  
beginning of NASA's commitment to return

12  
00:00:42,830 --> 00:00:41,160  
humankind to the moon and on to Mars

13  
00:00:46,010 --> 00:00:42,840

## Splashdown

14

00:00:48,049 --> 00:00:46,020

from Tranquility base to Taurus litro to

15

00:00:49,970 --> 00:00:48,059

the Tranquil Waters of the Pacific the

16

00:00:52,310 --> 00:00:49,980

latest chapter of NASA's Journey to the

17

00:00:53,990 --> 00:00:52,320

moon comes to a close

18

00:00:56,330 --> 00:00:54,000

this week in the Artemis One mission

19

00:00:58,189 --> 00:00:56,340

came to a successful close when the

20

00:01:01,010 --> 00:00:58,199

Orion capsule splashed down in the

21

00:01:02,750 --> 00:01:01,020

Pacific Ocean off the Baja Coast near

22

00:01:05,570 --> 00:01:02,760

Guadalupe Island

23

00:01:08,210 --> 00:01:05,580

during its 25 and a half day Mission the

24

00:01:10,730 --> 00:01:08,220

Orion spacecraft traveled over 1.4

25

00:01:12,710 --> 00:01:10,740

million miles after its Journey around

26

00:01:15,109 --> 00:01:12,720

the moon was concluded the vehicle

27

00:01:19,490 --> 00:01:15,119

headed home where it reached re-entry

28

00:01:23,929 --> 00:01:19,500

speeds of 24 500 miles per hour that's

29

00:01:26,810 --> 00:01:23,939

Mach 32 and liftoff of Artemis one we

30

00:01:29,630 --> 00:01:26,820

rise together back to the moon and

31

00:01:32,149 --> 00:01:29,640

Beyond following its successful launch

32

00:01:35,030 --> 00:01:32,159

last month on NASA's space launch system

33

00:01:37,550 --> 00:01:35,040

rocket Artemis 1 tested the Orion

34

00:01:39,649 --> 00:01:37,560

spacecraft on a rigorous mission in the

35

00:01:42,170 --> 00:01:39,659

extreme environment of deep space around

36

00:01:44,690 --> 00:01:42,180

the moon this mission was a critical

37

00:01:47,710 --> 00:01:44,700

step before flying astronauts on Artemis

38

00:01:51,109 --> 00:01:47,720

2 in 2024

39  
00:01:53,210 --> 00:01:51,119  
on Wednesday December 14th an external

40  
00:01:57,109 --> 00:01:53,220  
leak was detected from the Ross Cosmos

41  
00:01:58,910 --> 00:01:57,119  
soyuz ms-22 spacecraft docked at the Roz

42  
00:02:01,429 --> 00:01:58,920  
vet module on the International Space

43  
00:02:04,190 --> 00:02:01,439  
Station the Ross Cosmos Mission Control

44  
00:02:06,649 --> 00:02:04,200  
team in Moscow decided to postpone the

45  
00:02:08,510 --> 00:02:06,659  
spacewalk by cosmonauts that was planned

46  
00:02:11,210 --> 00:02:08,520  
for Wednesday evening in order to

47  
00:02:13,550 --> 00:02:11,220  
evaluate the situation and data from the

48  
00:02:15,650 --> 00:02:13,560  
soyuz spacecraft the crew members aboard

49  
00:02:17,510 --> 00:02:15,660  
the space station were not in any danger

50  
00:02:20,570 --> 00:02:17,520  
during the leak and are conducting

51  
00:02:23,330 --> 00:02:20,580  
normal operations the external radiator

52  
00:02:25,369 --> 00:02:23,340  
cooling Loop of the soyuz is a suspected

53  
00:02:27,589 --> 00:02:25,379  
leak Source Specialists on the ground

54  
00:02:30,830 --> 00:02:27,599  
are working on plans for a robotic

55  
00:02:32,990 --> 00:02:30,840  
survey of the soyuz spacecraft a Ross

56  
00:02:36,229 --> 00:02:33,000  
Cosmos spacewalk scheduled for December

57  
00:02:38,330 --> 00:02:36,239  
21st is indefinitely postponed as the

58  
00:02:40,449 --> 00:02:38,340  
team continues its investigation of the

59  
00:02:43,490 --> 00:02:40,459  
soyuz spacecraft

60  
00:02:45,949 --> 00:02:43,500  
also this week NASA astronauts Josh

61  
00:02:47,869 --> 00:02:45,959  
cassida and Frank Rubio are preparing

62  
00:02:50,270 --> 00:02:47,879  
for their next DVA

63  
00:02:52,430 --> 00:02:50,280

the duo will exit the station's Quest

64

00:02:55,369 --> 00:02:52,440

airlock to install an International

65

00:02:58,309 --> 00:02:55,379

Space Station roll out solar array

66

00:03:00,830 --> 00:02:58,319

designed to augment power generation on

67

00:03:03,589 --> 00:03:00,840

the 4A power channel on the port truss

68

00:03:06,350 --> 00:03:03,599

of the orbiting laboratory this will be

69

00:03:09,170 --> 00:03:06,360

the fourth of six iroses to be installed

70

00:03:11,990 --> 00:03:09,180

when completed the irosas will increase

71

00:03:14,630 --> 00:03:12,000

power generation capability by up to 30

72

00:03:18,229 --> 00:03:14,640

percent increasing the station's total

73

00:03:21,050 --> 00:03:18,239

available power from 160 kilowatts to up

74

00:03:23,449 --> 00:03:21,060

to 215 kilowatts

75

00:03:25,910 --> 00:03:23,459

live coverage will be provided for all

76

00:03:28,190 --> 00:03:25,920

upcoming Evas so follow us on social

77

00:03:31,430 --> 00:03:28,200

media or head over to NASA Television

78

00:03:34,670 --> 00:03:31,440

the NASA app or the agency's website for

79

00:03:36,229 --> 00:03:34,680

more information and times that's space

80

00:03:38,060 --> 00:03:36,239

to ground for this week thanks for

81

00:03:53,930 --> 00:03:38,070

watching we'll see you next week

82

00:03:54,540 --> 00:03:53,940

[Music]