



**Space**to**Ground**

1  
00:00:07,150 --> 00:00:02,690  
foreign

2  
00:00:10,190 --> 00:00:07,160  
[Music]

3  
00:00:11,870 --> 00:00:10,200  
this week the science continues and so

4  
00:00:13,129 --> 00:00:11,880  
much progress on the International Space

5  
00:00:16,010 --> 00:00:13,139  
Station

6  
00:00:18,590 --> 00:00:16,020  
on Tuesday October 25th the unpiloted

7  
00:00:20,150 --> 00:00:18,600  
progress 82 cargo craft launched on a

8  
00:00:22,189 --> 00:00:20,160  
soyuz rocket from the baikonur

9  
00:00:24,290 --> 00:00:22,199  
cosmodrome in Kazakhstan

10  
00:00:26,210 --> 00:00:24,300  
the progress spacecraft docked to the

11  
00:00:28,790 --> 00:00:26,220  
space-facing side of the Poise module

12  
00:00:30,830 --> 00:00:28,800  
two days later on Thursday October 27th

13  
00:00:32,389 --> 00:00:30,840

bringing almost three tons of supplies

14

00:00:34,250 --> 00:00:32,399

to the crew

15

00:00:35,930 --> 00:00:34,260

this week the astronauts aboard the

16

00:00:37,190 --> 00:00:35,940

space station got a little help on

17

00:00:39,770 --> 00:00:37,200

inventory

18

00:00:42,530 --> 00:00:39,780

Jack's astronaut koichiwakata conducted

19

00:00:45,950 --> 00:00:42,540

the RFID enabled autonomous Logistics

20

00:00:48,950 --> 00:00:45,960

management 2 or RFID Recon for inventory

21

00:00:52,190 --> 00:00:48,960

wakada used an astro B robotic free

22

00:00:54,470 --> 00:00:52,200

flyer to identify RFID tag cargo on the

23

00:00:56,330 --> 00:00:54,480

station to determine its presence and

24

00:00:59,510 --> 00:00:56,340

location in order to help the crew find

25

00:01:01,670 --> 00:00:59,520

items quickly and efficiently RFID tags

26  
00:01:04,250 --> 00:01:01,680  
are similar to barcodes except they are

27  
00:01:06,289 --> 00:01:04,260  
electronic do not require line of sight

28  
00:01:07,670 --> 00:01:06,299  
and are able to respond through Wireless

29  
00:01:10,550 --> 00:01:07,680  
communication

30  
00:01:12,830 --> 00:01:10,560  
although RFID has been used effectively

31  
00:01:14,750 --> 00:01:12,840  
on Earth for over a decade uses have

32  
00:01:17,030 --> 00:01:14,760  
been primarily in the area of supply

33  
00:01:19,850 --> 00:01:17,040  
chain Logistics at the box and pallet

34  
00:01:21,770 --> 00:01:19,860  
levels precise item level tracking and

35  
00:01:24,410 --> 00:01:21,780  
localization and machine interaction

36  
00:01:26,390 --> 00:01:24,420  
utilizing RFID are still in early stages

37  
00:01:28,490 --> 00:01:26,400  
but are rapidly beginning to infiltrate

38  
00:01:30,350 --> 00:01:28,500

institutions such as retail and

39

00:01:31,910 --> 00:01:30,360

Commercial Avionics

40

00:01:34,550 --> 00:01:31,920

the mission of the International Space

41

00:01:36,649 --> 00:01:34,560

Station is multifaceted with scientific

42

00:01:37,670 --> 00:01:36,659

research and exploration at the

43

00:01:39,770 --> 00:01:37,680

Forefront

44

00:01:42,469 --> 00:01:39,780

but one of the major duties that

45

00:01:44,810 --> 00:01:42,479

astronauts take part in is to inspire

46

00:01:46,310 --> 00:01:44,820

what advice would you give to elementary

47

00:01:48,950 --> 00:01:46,320

school students who want to be

48

00:01:51,050 --> 00:01:48,960

astronauts inspiration is a core mission

49

00:01:53,149 --> 00:01:51,060

of NASA astronauts aboard the space

50

00:01:55,069 --> 00:01:53,159

station regularly take part in scheduled

51  
00:01:57,109 --> 00:01:55,079  
events during their time in orbit to

52  
00:01:59,410 --> 00:01:57,119  
inspire future generations to explore

53  
00:02:01,730 --> 00:01:59,420  
learn and build a better future

54  
00:02:04,010 --> 00:02:01,740  
educational events with schools around

55  
00:02:06,410 --> 00:02:04,020  
the world help students to engage in the

56  
00:02:08,630 --> 00:02:06,420  
study of science technology engineering

57  
00:02:10,490 --> 00:02:08,640  
and Mathematics along with on-orbit

58  
00:02:12,770 --> 00:02:10,500  
interviews with media and institutions

59  
00:02:15,949 --> 00:02:12,780  
the space station serves as Humanities

60  
00:02:18,170 --> 00:02:15,959  
outposts in the quest to explore

61  
00:02:20,030 --> 00:02:18,180  
we invite you to follow us as we

62  
00:02:22,430 --> 00:02:20,040  
continue to explore the secrets of the

63  
00:02:24,170 --> 00:02:22,440

universe for the benefit of all

64

00:02:27,410 --> 00:02:24,180

we have a wealth of information online

65

00:02:29,270 --> 00:02:27,420

at ISS underscore Research on Twitter is

66

00:02:30,650 --> 00:02:29,280

a great place to start

67

00:02:32,809 --> 00:02:30,660

that's space to ground for this week

68

00:02:33,630 --> 00:02:32,819

thanks for watching we'll see you next