



Return of the Key

1
00:00:14,390 --> 00:00:12,650
this week at NASA September 16th is the

2
00:00:17,060 --> 00:00:14,400
new date for three members of the

3
00:00:18,890 --> 00:00:17,070
expedition 28 crew to return home from

4
00:00:21,260 --> 00:00:18,900
the International Space Station the

5
00:00:24,590 --> 00:00:21,270
journey back to earth for andrey

6
00:00:27,470 --> 00:00:24,600
borisenko ron garan and alexander

7
00:00:29,900 --> 00:00:27,480
samokutyaev will conclude on September

8
00:00:33,590 --> 00:00:29,910
16th with a landing of their soyuz

9
00:00:35,930 --> 00:00:33,600
spacecraft in kazakhstan at 1201 a.m.

10
00:00:38,240 --> 00:00:35,940
Eastern originally scheduled for

11
00:00:40,700 --> 00:00:38,250
September 8th their return had been

12
00:00:43,580 --> 00:00:40,710
postponed indefinitely after the station

13
00:00:45,500 --> 00:00:43,590

bound progress 44 spacecraft failed to

14

00:00:52,479 --> 00:00:45,510

reach orbit after its August

15

00:00:56,869 --> 00:00:55,310

the arrival of this Antonov cargo

16

00:00:59,840 --> 00:00:56,879

carrier at the Wallops Flight Facility

17

00:01:02,450 --> 00:00:59,850

in Virginia signals another milestone

18

00:01:05,000 --> 00:01:02,460

for NASA's partnership with industry to

19

00:01:07,040 --> 00:01:05,010

resupply the International Space Station

20

00:01:10,040 --> 00:01:07,050

it brought two wolves the Cygnus

21

00:01:12,680 --> 00:01:10,050

spacecraft pressurized cargo module or

22

00:01:14,960 --> 00:01:12,690

peacing out over the next few months the

23

00:01:16,790 --> 00:01:14,970

PCM will be integrated with the Cygnus

24

00:01:19,190 --> 00:01:16,800

service module that includes the

25

00:01:22,190 --> 00:01:19,200

spacecraft's avionics propulsion and

26

00:01:24,590 --> 00:01:22,200

power systems designed by the orbital

27

00:01:27,050 --> 00:01:24,600

sciences corporation to carry cargo and

28

00:01:28,670 --> 00:01:27,060

supplies to the ISS the Cygnus

29

00:01:32,920 --> 00:01:28,680

spacecraft is scheduled for a

30

00:01:35,300 --> 00:01:32,930

demonstration flight early next year a

31

00:01:37,219 --> 00:01:35,310

lot of work is going on the final

32

00:01:39,490 --> 00:01:37,229

preparations with the launch of NASA's

33

00:01:42,320 --> 00:01:39,500

Gravity Recovery and interior laboratory

34

00:01:44,840 --> 00:01:42,330

spacecraft drawing closer rail

35

00:01:46,430 --> 00:01:44,850

scientists held a pre-launch briefing to

36

00:01:48,260 --> 00:01:46,440

discuss their mission trying to

37

00:01:52,130 --> 00:01:48,270

understand how the moon formed and how

38

00:01:53,510 --> 00:01:52,140

it evolved over its history is one of

39

00:01:55,790 --> 00:01:53,520

the things we're trying to address with

40

00:01:58,069 --> 00:01:55,800

the Grail mission breil will fly twin

41

00:02:00,230 --> 00:01:58,079

spacecraft in tandem orbits around the

42

00:02:02,620 --> 00:02:00,240

moon for several months to measure its

43

00:02:05,510 --> 00:02:02,630

gravity field in exceptional detail

44

00:02:07,100 --> 00:02:05,520

Grail is expected to answer persistent

45

00:02:10,310 --> 00:02:07,110

questions about the makeup of the moon's

46

00:02:12,590 --> 00:02:10,320

interior and thereby help scientists

47

00:02:15,440 --> 00:02:12,600

better understand how earth and other

48

00:02:18,289 --> 00:02:15,450

rocky planets in our solar system form i

49

00:02:20,000 --> 00:02:18,299

am predicting that we're gonna find

50

00:02:23,120 --> 00:02:20,010

something and i don't know what it is

51
00:02:25,819 --> 00:02:23,130
that is really really gonna surprise us

52
00:02:27,500 --> 00:02:25,829
and turn our understanding of how the

53
00:02:29,840 --> 00:02:27,510
moon and other terrestrial planets

54
00:02:31,340 --> 00:02:29,850
formed on its ear rail is scheduled to

55
00:02:32,750 --> 00:02:31,350
launch the morning of September rain

56
00:02:37,640 --> 00:02:32,760
from the cape canaveral air force

57
00:02:40,250 --> 00:02:37,650
station in florida this storm is

58
00:02:45,220 --> 00:02:40,260
stretching from Cuba to the Carolinas

59
00:02:48,199 --> 00:02:45,230
and that is 11 scary big storm as

60
00:02:50,870 --> 00:02:48,209
Hurricane Irene made her way towards the

61
00:02:52,759 --> 00:02:50,880
US mainland NASA helped keep a close

62
00:02:55,520 --> 00:02:52,769
watch on the storms development and

63
00:02:57,319 --> 00:02:55,530

progress over a number of jay's the

64

00:02:59,360 --> 00:02:57,329

expedition 28 crew aboard the

65

00:03:01,400 --> 00:02:59,370

International Space Station trained its

66

00:03:04,550 --> 00:03:01,410

cameras on the huge Atlantic system

67

00:03:07,880 --> 00:03:04,560

almost 230 miles blood

68

00:03:10,309 --> 00:03:07,890

and this is NASA animation produced from

69

00:03:12,530 --> 00:03:10,319

a series of observations made by Noah's

70

00:03:16,040 --> 00:03:12,540

geostationary operational environmental

71

00:03:17,900 --> 00:03:16,050

satellite goes-13 NASA's tropical

72

00:03:20,870 --> 00:03:17,910

rainfall measuring mission satellite

73

00:03:23,089 --> 00:03:20,880

trem help measure the storms intensity

74

00:03:25,520 --> 00:03:23,099

other observations were made by the

75

00:03:28,400 --> 00:03:25,530

modis or moderate resolution imaging

76
00:03:33,680 --> 00:03:28,410
spectroradiometer aboard NASA's Aqua

77
00:03:36,350 --> 00:03:33,690
settle for the first time NASA funded

78
00:03:38,720 --> 00:03:36,360
researchers have created a complete map

79
00:03:41,509 --> 00:03:38,730
showing the speed and direction of ice

80
00:03:43,490 --> 00:03:41,519
flows throughout Antarctica this

81
00:03:45,320 --> 00:03:43,500
animation demonstrates how ice is

82
00:03:47,479 --> 00:03:45,330
naturally transported from the

83
00:03:50,390 --> 00:03:47,489
continents deep interior to its coast

84
00:03:53,120 --> 00:03:50,400
the red and purple areas represent the

85
00:03:55,789 --> 00:03:53,130
fastest flowing ice the map was created

86
00:03:57,140 --> 00:03:55,799
using integrated radar our observation

87
00:04:00,199 --> 00:03:57,150
from a consortium of international

88
00:04:02,089 --> 00:04:00,209

satellites the map gives scientists not

89

00:04:04,850 --> 00:04:02,099

only a better understanding of how ice

90

00:04:06,979 --> 00:04:04,860

sheets flow but also how the ice might

91

00:04:11,660 --> 00:04:06,989

react to climate change and affect

92

00:04:14,630 --> 00:04:11,670

future sea levels I'd like Shannon

93

00:04:16,849 --> 00:04:14,640

Walker to join me up here astronaut

94

00:04:19,099 --> 00:04:16,859

Shannon Walker returned her key to the

95

00:04:22,130 --> 00:04:19,109

city of Houston after flying it aboard

96

00:04:24,440 --> 00:04:22,140

expedition 24 25 I wanted to return

97

00:04:26,029 --> 00:04:24,450

these to the city and to say thank you

98

00:04:28,460 --> 00:04:26,039

very much for letting me fly these and

99

00:04:31,310 --> 00:04:28,470

I'm very proud to be a houstonian the

100

00:04:33,350 --> 00:04:31,320

first native houstonian in space Walker

101
00:04:34,940 --> 00:04:33,360
served as flight engineer for more than

102
00:04:37,940 --> 00:04:34,950
five months on the International Space

103
00:04:41,029 --> 00:04:37,950
Station launching on so you see ma 19

104
00:04:45,740 --> 00:04:41,039
spacecraft in June 2010 and returning to

105
00:04:48,570 --> 00:04:45,750
Earth on November 25th and now

106
00:04:52,840 --> 00:04:51,400
for the past three years the team we

107
00:04:55,030 --> 00:04:52,850
recognize today have worked diligently

108
00:04:57,100 --> 00:04:55,040
behind the scenes to pull off the

109
00:04:58,660 --> 00:04:57,110
impossible a ceremony marked the

110
00:05:00,310 --> 00:04:58,670
official transfer of the former

111
00:05:02,590 --> 00:05:00,320
Mississippi army ammunition plant

112
00:05:04,780 --> 00:05:02,600
facilities to the scent of space center

113
00:05:07,120 --> 00:05:04,790

positioning the site for years of major

114

00:05:08,320 --> 00:05:07,130

expansion so we've come a long way since

115

00:05:10,450 --> 00:05:08,330

nineteen seventy-four in our

116

00:05:12,280 --> 00:05:10,460

understanding of the ongoing operations

117

00:05:14,740 --> 00:05:12,290

of the federal City and inherited a

118

00:05:17,560 --> 00:05:14,750

great treasure of assets from those who

119

00:05:20,530 --> 00:05:17,570

preceded us Stennis is a unique federal

120

00:05:22,960 --> 00:05:20,540

City home to more than 30 federal state

121

00:05:25,780 --> 00:05:22,970

academic and private organizations and

122

00:05:28,210 --> 00:05:25,790

numerous technology-based companies the

123

00:05:30,640 --> 00:05:28,220

federal City model allows these resident

124

00:05:33,220 --> 00:05:30,650

agencies to share the cost of owning and

125

00:05:35,740 --> 00:05:33,230

operating the center making it more cost

126

00:05:38,470 --> 00:05:35,750

effective for each entity to accomplish

127

00:05:40,420 --> 00:05:38,480

its independent mission with acquisition

128

00:05:43,150 --> 00:05:40,430

of the 1.6 million square feet of

129

00:05:45,250 --> 00:05:43,160

facility space NASA increases the total

130

00:05:47,830 --> 00:05:45,260

facility space at Stennis by about

131

00:05:49,780 --> 00:05:47,840

thirty three percent i go to deputies

132

00:05:52,450 --> 00:05:49,790

meetings where we talk about and set

133

00:05:54,910 --> 00:05:52,460

policies for interagency cooperation but

134

00:05:57,430 --> 00:05:54,920

you make it happen this is where it

135

00:06:01,440 --> 00:05:57,440

happens and my colleagues and I on the

136

00:06:04,030 --> 00:06:01,450

stage just couldn't be more proud

137

00:06:06,010 --> 00:06:04,040

five-time Grammy award-winning Christian

138

00:06:08,170 --> 00:06:06,020

recording artist Steven Curtis Chapman

139

00:06:10,810 --> 00:06:08,180

was at the Johnson Space Center recently

140

00:06:12,450 --> 00:06:10,820

and had the opportunity to speak with

141

00:06:15,430 --> 00:06:12,460

International Space Station expedition

142

00:06:18,150 --> 00:06:15,440

28 crew members Mike Fossum and ron

143

00:06:21,420 --> 00:06:18,160

garan from the Mission Control Center

144

00:06:23,890 --> 00:06:21,430

Steven Curtis Chapman I was going guys

145

00:06:26,050 --> 00:06:23,900

greetings you've got that bike here and

146

00:06:28,440 --> 00:06:26,060

Ron it though it's really great talk to

147

00:06:30,910 --> 00:06:28,450

you for me I've had a lot of crazy

148

00:06:33,130 --> 00:06:30,920

experiences in my life but first time

149

00:06:35,440 --> 00:06:33,140

deducted a couple of brothers in space

150

00:06:38,740 --> 00:06:35,450

your musics fine with us and you're just

151
00:06:40,450 --> 00:06:38,750
real blessing to us and it's great that

152
00:06:42,880 --> 00:06:40,460
you're able to join and see a little bit

153
00:06:45,760 --> 00:06:42,890
of NASA behind the scenes and it's an

154
00:06:47,770 --> 00:06:45,770
honor talking thank you guys when we

155
00:06:51,220 --> 00:06:47,780
release a new out we call it launching

156
00:06:52,840 --> 00:06:51,230
an album which after seeing this I think

157
00:06:55,780 --> 00:06:52,850
we might need to change that name

158
00:07:04,430 --> 00:06:55,790
because it's fails

159
00:07:10,340 --> 00:07:07,160
I do think that launching is the proper

160
00:07:12,080 --> 00:07:10,350
word for it because it's a lot of the

161
00:07:14,150 --> 00:07:12,090
same stuff a little less fire and smoke

162
00:07:17,060 --> 00:07:14,160
perhaps for us the launch is a new

163
00:07:19,670 --> 00:07:17,070

beginning to a new a new chapter you

164

00:07:21,860 --> 00:07:19,680

know for us in our mission as it is for

165

00:07:24,110 --> 00:07:21,870

you when you launch a new album menu and

166

00:07:26,840 --> 00:07:24,120

you know you send it off with a with a

167

00:07:28,370 --> 00:07:26,850

prayer and a wave and you know off it

168

00:07:32,950 --> 00:07:28,380

goes it takes on a life of its own

169

00:07:36,830 --> 00:07:32,960

question thank you so much guys and