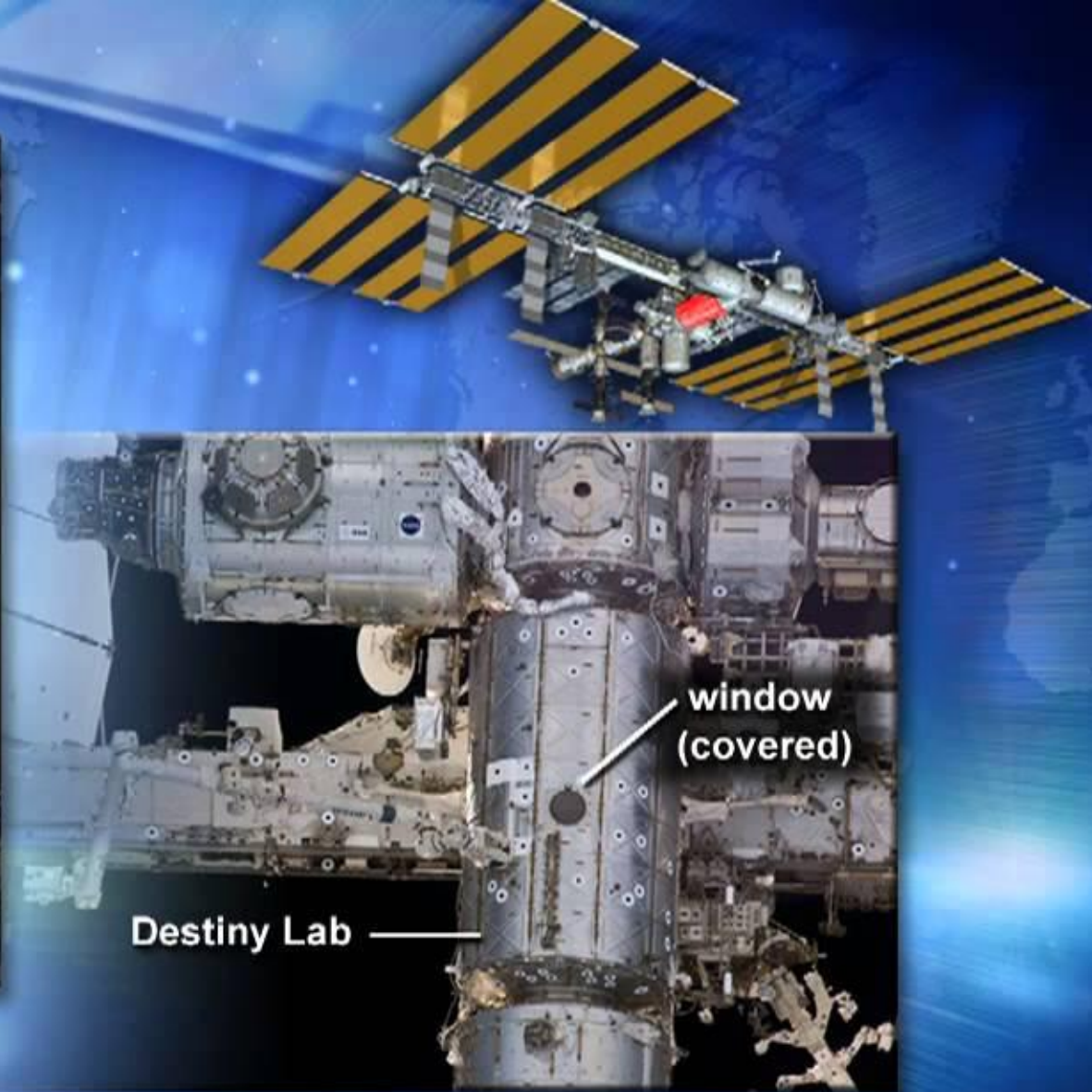




**WORF interior**



**Destiny Lab**

**window  
(covered)**

**WINDOW OBSERVATIONAL RESEARCH FACILITY (WORF)**

1  
00:00:17,189 --> 00:00:13,190  
it's been a busy week aboard the

2  
00:00:20,870 --> 00:00:19,590  
the astronauts and cosmonauts aboard

3  
00:00:23,349 --> 00:00:20,880  
this station

4  
00:00:26,470 --> 00:00:23,359  
starting off with preparations for

5  
00:00:30,150 --> 00:00:26,480  
a spacewalk or extra vehicular activity

6  
00:00:34,709 --> 00:00:31,910  
crew members chris cassidy and luca

7  
00:00:36,709 --> 00:00:34,719  
parmitano uh spent the early part of the

8  
00:00:39,590 --> 00:00:36,719  
week preparing their spacesuits and

9  
00:00:40,709 --> 00:00:39,600  
going over inventory for their tools

10  
00:00:42,830 --> 00:00:40,719  
while

11  
00:00:45,110 --> 00:00:42,840  
other crew members

12  
00:00:47,990 --> 00:00:45,120  
including karen nyberg and luca

13  
00:00:51,189 --> 00:00:48,000

parmitano assisted with their

14

00:00:53,350 --> 00:00:51,199

activities as well and also participated

15

00:00:54,549 --> 00:00:53,360

in some experiment work aboard the

16

00:00:55,430 --> 00:00:54,559

station

17

00:00:58,229 --> 00:00:55,440

that

18

00:01:00,869 --> 00:00:58,239

spacewalk of course occurred on tuesday

19

00:01:03,110 --> 00:01:00,879

cassidy and parmitano conducted a six

20

00:01:04,950 --> 00:01:03,120

hour seven minute eva

21

00:01:08,550 --> 00:01:04,960

out of the quest airlock

22

00:01:10,870 --> 00:01:08,560

to replace a failed ku

23

00:01:12,950 --> 00:01:10,880

band antenna receiver box and also

24

00:01:15,270 --> 00:01:12,960

perform some maintenance and upgrades to

25

00:01:17,429 --> 00:01:15,280

station equipment they brought in an

26

00:01:18,550 --> 00:01:17,439

experiment that will later be brought

27

00:01:21,190 --> 00:01:18,560

home

28

00:01:24,630 --> 00:01:21,200

from the international space station

29

00:01:26,749 --> 00:01:24,640

as part of the spacex cargo

30

00:01:29,590 --> 00:01:26,759

return this was the

31

00:01:31,590 --> 00:01:29,600

170th spacewalk in support of station

32

00:01:33,749 --> 00:01:31,600

assembly and maintenance it was the

33

00:01:36,069 --> 00:01:33,759

fifth for chris cassidy in the first for

34

00:01:38,630 --> 00:01:36,079

luca parmitano who became the first

35

00:01:41,510 --> 00:01:38,640

italian to walk in space

36

00:01:43,510 --> 00:01:41,520

nyberg and fyodor yurchikhin russian

37

00:01:46,469 --> 00:01:43,520

cosmonaut assisted with their suit up

38

00:01:49,749 --> 00:01:46,479

and then nyberg oversaw the operations

39

00:01:51,590 --> 00:01:49,759

of the canadian robotic arm canadarm2

40

00:01:57,350 --> 00:01:51,600

from the destiny labs robotic

41

00:02:02,469 --> 00:01:59,990

wednesday the mid-week the crew started

42

00:02:05,190 --> 00:02:02,479

off cruise day started off with a bang

43

00:02:07,590 --> 00:02:05,200

literally as the on-board automated

44

00:02:09,669 --> 00:02:07,600

transfer vehicles orbital control system

45

00:02:11,110 --> 00:02:09,679

thrusters were used to raise the perigee

46

00:02:14,309 --> 00:02:11,120

or the low side

47

00:02:16,550 --> 00:02:14,319

of the station's orbit by 3.2 miles that

48

00:02:18,949 --> 00:02:16,560

places a complex in the precise orbit

49

00:02:21,430 --> 00:02:18,959

for a rival of the next progress supply

50

00:02:23,350 --> 00:02:21,440

vehicle 52p

51

00:02:25,270 --> 00:02:23,360

on july 27th

52

00:02:27,510 --> 00:02:25,280

and the departure and return home of

53

00:02:29,990 --> 00:02:27,520

vinogradov for pavel vinogradov

54

00:02:32,790 --> 00:02:30,000

alexander misurkin and cassidy in their

55

00:02:37,030 --> 00:02:32,800

soyuz capsule on september 11th the

56

00:02:43,110 --> 00:02:37,040

station now is in an orbit of 263 by 254

57

00:02:47,110 --> 00:02:45,190

crew members also continued preparations

58

00:02:49,270 --> 00:02:47,120

for the space walk conducting

59

00:02:52,150 --> 00:02:49,280

conferences with the ground and post

60

00:02:55,030 --> 00:02:52,160

spacewalk medical exams by nyberg who's

61

00:02:57,509 --> 00:02:55,040

the onboard crew medical officer

62

00:02:59,670 --> 00:02:57,519

she and parmitano also packed up the

63

00:03:02,229 --> 00:02:59,680

materials iss experiment that was

64

00:03:04,070 --> 00:03:02,239

brought in during that tuesday eva

65

00:03:07,350 --> 00:03:04,080

those experiment samples are scheduled

66

00:03:10,550 --> 00:03:07,360

to return to earth aboard the spacex 3

67

00:03:12,790 --> 00:03:10,560

commercial cargo craft later this year

68

00:03:14,790 --> 00:03:12,800

the experiments were designed to assess

69

00:03:17,110 --> 00:03:14,800

impacts of space environment on

70

00:03:18,949 --> 00:03:17,120

materials and processor

71

00:03:20,470 --> 00:03:18,959

elements

72

00:03:22,710 --> 00:03:20,480

nyberg also

73

00:03:25,030 --> 00:03:22,720

opened a shutter on a window observation

74

00:03:28,630 --> 00:03:25,040

research facility the wharf on board the

75

00:03:30,789 --> 00:03:28,640

station as part of the iss environmental

76  
00:03:33,430 --> 00:03:30,799  
research and visualization system which

77  
00:03:35,670 --> 00:03:33,440  
is designed to help gain experience in

78  
00:03:37,190 --> 00:03:35,680  
automated data acquisition and provide

79  
00:03:41,030 --> 00:03:37,200  
images for

80  
00:03:42,710 --> 00:03:41,040  
disaster monitoring and assessments

81  
00:03:44,070 --> 00:03:42,720  
misurkin in the russian segment of the

82  
00:03:45,589 --> 00:03:44,080  
station

83  
00:03:47,270 --> 00:03:45,599  
sampled

84  
00:03:50,710 --> 00:03:47,280  
took some samples from an experiment

85  
00:03:52,390 --> 00:03:50,720  
known as the vino slivost which studies

86  
00:03:53,750 --> 00:03:52,400  
material fatigue in the space

87  
00:03:56,309 --> 00:03:53,760  
environment

88  
00:03:58,070 --> 00:03:56,319

results of this study will provide data

89

00:04:00,470 --> 00:03:58,080

for estimating the lifespan of

90

00:04:04,470 --> 00:04:00,480

structural elements for current and

91

00:04:10,070 --> 00:04:07,190

thursday of this week the crew protect

92

00:04:13,190 --> 00:04:10,080

continue to prepare uh further for

93

00:04:15,110 --> 00:04:13,200

next tuesday's spacewalk by recharging

94

00:04:17,990 --> 00:04:15,120

the suit batteries for the emu's the

95

00:04:20,469 --> 00:04:18,000

extra vehicular mobility units and also

96

00:04:23,430 --> 00:04:20,479

reviewing their overview plan for the

97

00:04:25,350 --> 00:04:23,440

spacewalk and conducting a long distance

98

00:04:27,270 --> 00:04:25,360

conference with the eva team on the

99

00:04:29,110 --> 00:04:27,280

ground as well

100

00:04:31,749 --> 00:04:29,120

the week will close out close out on

101  
00:04:34,390 --> 00:04:31,759  
friday with cassidy and parmitano

102  
00:04:36,390 --> 00:04:34,400  
continuing spacesuit configuration work

103  
00:04:38,469 --> 00:04:36,400  
and get gathering their tools for next

104  
00:04:40,390 --> 00:04:38,479  
tuesday's eva

105  
00:04:43,590 --> 00:04:40,400  
that's scheduled to begin just after 7

106  
00:04:48,390 --> 00:04:43,600  
a.m central time with nasa tv coverage

107  
00:04:52,710 --> 00:04:50,710  
the weekend the six crew members plan to

108  
00:04:54,550 --> 00:04:52,720  
enjoy a fairly quiet weekend on orbit

109  
00:04:56,710 --> 00:04:54,560  
with time off to visit long distance

110  
00:04:58,710 --> 00:04:56,720  
with family members and also conduct

111  
00:05:01,350 --> 00:04:58,720  
some status checks on experiments that

112  
00:05:03,830 --> 00:05:01,360  
are ongoing they'll conduct some routine

113  
00:05:06,390 --> 00:05:03,840

housekeeping chores and of course

114

00:05:08,870 --> 00:05:06,400

earth observation and photography one of

115

00:05:11,670 --> 00:05:08,880

the favorite activities of crew members

116

00:05:14,390 --> 00:05:11,680

on board next week a look ahead

117

00:05:16,790 --> 00:05:14,400

obviously tuesday with that spacewalk

118

00:05:17,590 --> 00:05:16,800

that will dominate the early part of the

119

00:05:19,830 --> 00:05:17,600

week

120

00:05:22,230 --> 00:05:19,840

for the crew members on board

121

00:05:24,310 --> 00:05:22,240

and of course

122

00:05:26,870 --> 00:05:24,320

the preparations for that will commence

123

00:05:29,110 --> 00:05:26,880

once again on monday as the stage will

124

00:05:30,390 --> 00:05:29,120

be set for that early tuesday morning

125

00:05:31,990 --> 00:05:30,400

space walk

126

00:05:35,350 --> 00:05:32,000

so that's the week aboard the

127

00:05:37,590 --> 00:05:35,360

international space station and uh