1
00:00:00,000 --> 00:01:56,280
I

2
00:02:07,560 --> 00:02:05,790
look so sad for ffcc equivalents at

3
00:02:11,790 --> 00:02:07,570
point seven is complete we had a good

4
00:02:15,780 --> 00:02:11,800
fun radiometer takes values were about

5
00:02:19,670 --> 00:02:15,790
125 or so for radiometer number one and

6
00:02:22,230 --> 00:02:19,680
the droplet burned down to about 2.5

7
00:02:24,060 --> 00:02:22,240
millimeters started off 25 millimeters

8
00:02:26,430 --> 00:02:24,070
went down to about 2.5 and it looks like

9
00:02:28,340 --> 00:02:26,440
it extinguished it was hard for me to

10
00:02:30,240 --> 00:02:28,350
tell when the flame finally went out

11
00:02:34,949 --> 00:02:30,250
looks like we got a little bit of

12
00:02:36,840 --> 00:02:34,959
sitting on top of the threats and cover

13
00:02:40,650 --> 00:02:36,850

that was causing a little bit of a halo

14
00:02:42,870 --> 00:02:40,660
effect to me so I would sir exactly when

15
00:02:45,420 --> 00:02:42,880
it extinguished bagatelle that wasn't

16
00:02:47,160 --> 00:02:45,430
burning any smaller and then that where

17
00:02:51,750 --> 00:02:47,170
we terminated it then turn the fan on

18
00:02:53,160 --> 00:02:51,760
but it looked like a good burn okay we

19
00:02:54,449 --> 00:02:53,170
got the all done and I believe here in

20
00:02:57,600 --> 00:02:54,459
the ground they were watching in could

21
00:03:00,900 --> 00:02:57,610
tell in fact when are they the droplet

22
00:03:02,820 --> 00:03:00,910
did stop burning please you're not far

23
00:03:05,220 --> 00:03:02,830
from the damage space station it must be

24
00:03:08,699 --> 00:03:05,230
very bad feeling that you all are not

25
00:03:10,560 --> 00:03:08,709
able to help them is there any way and

26
00:03:12,600 --> 00:03:10,570
let me give this to gym all cell is

27
00:03:18,330 --> 00:03:12,610
there any way you could help them if the

28
00:03:20,910 --> 00:03:18,340
problems on mere got worse actually I

29
00:03:22,710 --> 00:03:20,920
given oil but we cannot get to the

30
00:03:24,570 --> 00:03:22,720
mirrors at a higher information orbit

31
00:03:28,440 --> 00:03:24,580
that we simply don't have the the fuel

32
00:03:30,180 --> 00:03:28,450
to reach at this point we did have the

33
00:03:32,039 --> 00:03:30,190
opportunity as you mentioned to see me a

34
00:03:34,020 --> 00:03:32,049
few days ago and actually I did not but

35
00:03:38,479 --> 00:03:34,030
Susan did so let me let me pass it off

36
00:03:43,800 --> 00:03:41,070
actually Don and I saw Mary the other

37
00:03:46,229 --> 00:03:43,810
night and it was spectacular you know is

38
00:03:49,560 --> 00:03:46,239

the brightest thing in the sky and she

39
00:03:51,660 --> 00:03:49,570
stops almost directly overhead of us and

40
00:03:53,610 --> 00:03:51,670
on this close enough to reach out and

41
00:03:54,810 --> 00:03:53,620
touch them and yes of course we wish we

42
00:03:58,490 --> 00:03:54,820
could go help them unfortunately

43
00:04:00,260 --> 00:03:58,500
Columbia can't get to that inclination

44
00:04:02,300 --> 00:04:00,270
all right you're the viewer question

45
00:04:04,190 --> 00:04:02,310
from Robert in England do our cold end

46
00:04:06,380 --> 00:04:04,200
moments ago and he wants to know what

47
00:04:08,930 --> 00:04:06,390
the most spectacular things you have

48
00:04:10,460 --> 00:04:08,940
seen so far on this mission is might be

49
00:04:13,100 --> 00:04:10,470
something in your space lab might be

50
00:04:15,110 --> 00:04:13,110
something out the window you can run how

51
00:04:17,330 --> 00:04:15,120
about it Roger crouch Chuck could you

52
00:04:23,360 --> 00:04:17,340
take this the most spectacular thing you

53
00:04:24,410 --> 00:04:23,370
have seen so far on this mission they've

54
00:04:26,510 --> 00:04:24,420
got a bunch of people offering

55
00:04:28,040 --> 00:04:26,520
opportunities I'll go firstly I think

56
00:04:29,120 --> 00:04:28,050
the most spectacular thing I've seen on

57
00:04:31,520 --> 00:04:29,130
this mission compared to my previous

58
00:04:33,470 --> 00:04:31,530
flights or dust storms there's a

59
00:04:35,720 --> 00:04:33,480
tremendous amount of dust blowing off

60
00:04:38,000 --> 00:04:35,730
the African continent right now and it's

61
00:04:39,650 --> 00:04:38,010
headed toward the west towards North and

62
00:04:42,260 --> 00:04:39,660
South American to be able to see those

63
00:04:43,790 --> 00:04:42,270

plumes of dust reach out those thousands

64
00:04:46,100 --> 00:04:43,800
of miles and know that it's actually

65
00:04:49,130 --> 00:04:46,110
what's happening in Africa is right now

66
00:04:50,960 --> 00:04:49,140
impacting the weather in atlanta and all

67
00:04:53,780 --> 00:04:50,970
across the united states it's an

68
00:04:55,159 --> 00:04:53,790
interesting and privileged vantage point

69
00:04:57,650 --> 00:04:55,169
for us to have to be able to see that

70
00:05:01,130 --> 00:04:57,660
happening tell me was doing the most

71
00:05:02,750 --> 00:05:01,140
work on the on the fire experiments the

72
00:05:04,640 --> 00:05:02,760
fire in space this is a question

73
00:05:06,320 --> 00:05:04,650
specific to that you could just pass the

74
00:05:09,590 --> 00:05:06,330
microphone over to the fire and space

75
00:05:11,840 --> 00:05:09,600
expert and the question is why are your

76
00:05:13,969 --> 00:05:11,850
experiments on fire in the combustion

77
00:05:16,250 --> 00:05:13,979
module so important during this mission

78
00:05:18,140 --> 00:05:16,260
and what applications can these

79
00:05:19,610 --> 00:05:18,150
experiments have for those of us who

80
00:05:21,409 --> 00:05:19,620
probably will never get to fly in space

81
00:05:26,840 --> 00:05:21,419
but who have a lot of experience with

82
00:05:28,670 --> 00:05:26,850
fire down here on earth well you know

83
00:05:30,500 --> 00:05:28,680
combustion is a very very important part

84
00:05:32,210 --> 00:05:30,510
of our economy Billy hundreds of

85
00:05:33,770 --> 00:05:32,220
billions of dollars a year are spent on

86
00:05:36,080 --> 00:05:33,780
energy ninety percent of which comes

87
00:05:37,610 --> 00:05:36,090
from combustion it's also a very very

88
00:05:40,190 --> 00:05:37,620

important part of our foreign trade

89
00:05:42,080 --> 00:05:40,200
deficit so if we can move the body of

90
00:05:45,080 --> 00:05:42,090
knowledge of combustion science forward

91
00:05:46,960 --> 00:05:45,090
that can have broad ramifications in all

92
00:05:49,820 --> 00:05:46,970
areas of applied combustion science

93
00:05:51,320 --> 00:05:49,830
automobiles should aircraft power plants

94
00:05:53,120 --> 00:05:51,330
all kinds of things that use combustion

95
00:05:54,950 --> 00:05:53,130
and so the experiments we're trying to

96
00:05:57,650 --> 00:05:54,960
do up here and they're being very they

97
00:05:59,240 --> 00:05:57,660
are very successful as well is to try

98
00:06:02,450 --> 00:05:59,250
and move the fundamental knowledge of

99
00:06:03,980 --> 00:06:02,460
combustion forward well I'm glad

100
00:06:06,740 --> 00:06:03,990
everybody surviving anybody else have

101
00:06:09,500 --> 00:06:06,750
any bad trouble up there was adaptation

102
00:06:09,980 --> 00:06:09,510
syndrome as the Nats of speakers or

103
00:06:11,360 --> 00:06:09,990
didn't most

104
00:06:16,790 --> 00:06:11,370
you guys just kind of zoom through this

105
00:06:20,030 --> 00:06:16,800
i think the real data point on this

106
00:06:21,950 --> 00:06:20,040
whole flight is if you let it fly three

107
00:06:25,670 --> 00:06:21,960
months apart the second time around the

108
00:06:27,590 --> 00:06:25,680
adaptation is very quick almost painless

109
00:06:29,570 --> 00:06:27,600
i would call it and i think that'll be a

110
00:06:31,130 --> 00:06:29,580
medical point of interest for all the

111
00:06:33,380 --> 00:06:31,140
doctors back home because they've never

112
00:06:34,850 --> 00:06:33,390
really had this number people reply

113
00:06:36,160 --> 00:06:34,860

that's quickly before it and i know

114
00:06:38,960 --> 00:06:36,170
they're going to be interested in that

115
00:06:41,210 --> 00:06:38,970
my interest now will be on landing to

116
00:06:43,070 --> 00:06:41,220
see you sir what else rule coming into

117
00:06:56,910 --> 00:06:43,080
orbit also rose through landing that is

118
00:07:07,010 --> 00:07:00,600
and Columbia Houston we have a report of

119
00:07:12,480 --> 00:07:09,720
after that bill is great is you don't

120
00:07:15,690 --> 00:07:12,490
have video for several more hours it is

121
00:07:17,430 --> 00:07:15,700
that correct again that's correct it's

122
00:07:20,460 --> 00:07:17,440
it's starting to go through the process

123
00:07:22,590 --> 00:07:20,470
of you know writing itself and things

124
00:07:42,939 --> 00:07:22,600
like that so they're not anticipating

125
00:09:05,509 --> 00:07:45,260
country of space that Spencer is

126
00:09:05,519 --> 00:09:33,319
from

127
00:09:33,329 --> 00:09:40,590
you

128
00:09:50,380 --> 00:09:48,430
and Columbia Houston yeah Jim I'm sorry

129
00:09:52,750 --> 00:09:50,390
too sorry to interrupt you I'd yeah we

130
00:09:55,530 --> 00:09:52,760
just we figured if you got to work on

131
00:09:57,970 --> 00:09:55,540
the fourth of July this is absolutely

132
00:10:02,470 --> 00:09:57,980
the best thing to be involved with we're

133
00:10:04,569 --> 00:10:02,480
real proud of you guys thanks lad I'll

134
00:10:05,889 --> 00:10:04,579
go turn the Navy right back here and a

135
00:10:07,509 --> 00:10:05,899
lot of people on the ground waiting on