
WALLOPS
FLIGHT
ACILITY
Amber Parker
Executive Director, Marine Science Consortium

1
00:00:13,430 --> 00:00:11,749
this week @nasa for the first time we've

2
00:00:15,860 --> 00:00:13,440
been able to image a coronal mass

3
00:00:17,840 --> 00:00:15,870
ejection with lots of detail and a

4
00:00:20,150 --> 00:00:17,850
photometric quality all the way through

5
00:00:22,310 --> 00:00:20,160
its entire lifecycle new processing

6
00:00:25,160 --> 00:00:22,320
techniques used on data gathered by

7
00:00:27,560 --> 00:00:25,170
NASA's stereo spacecraft will allow

8
00:00:30,980 --> 00:00:27,570
scientists to better track solar storms

9
00:00:33,440 --> 00:00:30,990
before they impact earth the storms call

10
00:00:35,810 --> 00:00:33,450
coronal mass ejections or CMEs are

11
00:00:37,729 --> 00:00:35,820
observed from NASA's twin Solar

12
00:00:41,780 --> 00:00:37,739
terrestrial relations Observatory

13
00:00:44,330 --> 00:00:41,790

spacecraft launched in 2006 the data now

14
00:00:47,000 --> 00:00:44,340
reveals a clear and detailed look at a

15
00:00:49,940 --> 00:00:47,010
storms front from the Sun all the way to

16
00:00:52,549 --> 00:00:49,950
earth thus reducing uncertainty of its

17
00:00:55,330 --> 00:00:52,559
arrival time with stereos five

18
00:00:57,950 --> 00:00:55,340
telescopes today we are actually

19
00:01:01,400 --> 00:00:57,960
witnessing the solar beam we can see

20
00:01:05,210 --> 00:01:01,410
them solar wind and solar storm blowing

21
00:01:07,550 --> 00:01:05,220
all the way from San torque stereo is

22
00:01:09,950 --> 00:01:07,560
part of NASA's Solar terrestrial probes

23
00:01:12,200 --> 00:01:09,960
program that seeks to understand the

24
00:01:14,780 --> 00:01:12,210
fundamental physical processes of the

25
00:01:19,480 --> 00:01:14,790
space environment from Sun to earth and

26
00:01:23,899 --> 00:01:21,250
technicians from the Jet Propulsion

27
00:01:26,000 --> 00:01:23,909
Laboratory were inside the Kennedy Space

28
00:01:28,430 --> 00:01:26,010
Center's payload hazardous servicing

29
00:01:31,160 --> 00:01:28,440
facility to assist in preparing the

30
00:01:34,460 --> 00:01:31,170
Curiosity rover for its upcoming mars

31
00:01:36,440 --> 00:01:34,470
science laboratory or MSL mission they

32
00:01:38,780 --> 00:01:36,450
worked on stowing the rover's robotic

33
00:01:40,280 --> 00:01:38,790
arm it'll hold and maneuver instruments

34
00:01:44,240 --> 00:01:40,290
that scientists will use to analyze

35
00:01:46,850 --> 00:01:44,250
Martian rocks and soil MSL is targeted

36
00:01:52,649 --> 00:01:46,860
for launch on November 25th from Cape

37
00:01:58,050 --> 00:01:55,559
New York City was the latest stock in a

38
00:02:01,190 --> 00:01:58,060

post-fight appearance tour by the last

39
00:02:04,319 --> 00:02:01,200
space shuttle crew over three days

40
00:02:07,349 --> 00:02:04,329
sts-135 astronauts Chris Ferguson Doug

41
00:02:09,419 --> 00:02:07,359
Hurley Rex Walheim and sandy Magnus made

42
00:02:11,880 --> 00:02:09,429
numerous appearances around Manhattan

43
00:02:14,490 --> 00:02:11,890
they visited the American Museum of

44
00:02:16,559 --> 00:02:14,500
Natural History showing video highlights

45
00:02:19,619 --> 00:02:16,569
from their mission aboard space shuttle

46
00:02:22,800 --> 00:02:19,629
Atlantis and taking questions from space

47
00:02:25,170 --> 00:02:22,810
enthusiasts of all ages what in your

48
00:02:27,839 --> 00:02:25,180
opinion is a good quality or treat for

49
00:02:30,059 --> 00:02:27,849
an astronaut to have I think you have to

50
00:02:32,190 --> 00:02:30,069
have a love of learning because it's an

51
00:02:34,440 --> 00:02:32,200
astronaut you are constantly learning

52
00:02:36,869 --> 00:02:34,450
new things every day they met with

53
00:02:38,819 --> 00:02:36,879
officials and VIPs including Mayor

54
00:02:41,339 --> 00:02:38,829
Michael Bloomberg with whom they

55
00:02:44,160 --> 00:02:41,349
exchanged a space flown lamento and a

56
00:02:46,170 --> 00:02:44,170
city Proclamation they also hung out

57
00:02:53,789 --> 00:02:46,180
with NASA's favorite fuzzy Red Monster

58
00:02:56,339 --> 00:02:53,799
Elmo from Sesame Street a special day

59
00:02:58,620 --> 00:02:56,349
long program called what's your favorite

60
00:03:01,250 --> 00:02:58,630
space was co-hosted by the Langley

61
00:03:03,780 --> 00:03:01,260
Research Center and the eventi hotel

62
00:03:05,699 --> 00:03:03,790
exhibits demonstrations games and

63
00:03:07,890 --> 00:03:05,709

entertainment showcased NASA's

64
00:03:09,930 --> 00:03:07,900
contributions to the public and industry

65
00:03:12,330 --> 00:03:09,940
and pay tribute to the space shuttle

66
00:03:14,460 --> 00:03:12,340
program the astronauts and a large

67
00:03:17,490 --> 00:03:14,470
audience were welcomed by NASA deputy

68
00:03:20,339 --> 00:03:17,500
administrator lori garver we have with

69
00:03:22,650 --> 00:03:20,349
us here the crew that landed with the

70
00:03:25,170 --> 00:03:22,660
space shuttle just three weeks ago

71
00:03:27,690 --> 00:03:25,180
Garver also made the introductions at

72
00:03:31,110 --> 00:03:27,700
another event at the Intrepid Sea Air

73
00:03:33,629 --> 00:03:31,120
and Space Museum the 135 crew had a meet

74
00:03:35,129 --> 00:03:33,639
and greet with visitors while NASA staff

75
00:03:37,409 --> 00:03:35,139
helped the public explore the

76
00:03:40,140 --> 00:03:37,419
International Space Station walk on Mars

77
00:03:43,979 --> 00:03:40,150
and control NASA robots with Kinect

78
00:03:45,599 --> 00:03:43,989
sensor and xbox 360 games intrepid will

79
00:03:50,930 --> 00:03:45,609
be the new home for NASA's

80
00:03:56,310 --> 00:03:53,910
they're countrywide tour also brought

81
00:03:58,170 --> 00:03:56,320
Ferguson Hurley Magnus and Walheim to

82
00:04:00,210 --> 00:03:58,180
the Stennis Space Center where they

83
00:04:02,820 --> 00:04:00,220
thanked employees for helping make their

84
00:04:05,220 --> 00:04:02,830
mission a success the missions pilot

85
00:04:07,590 --> 00:04:05,230
Doug Hurley talked about how important

86
00:04:09,449 --> 00:04:07,600
engine reliability was to him as a pilot

87
00:04:10,890 --> 00:04:09,459
your biggest responsibilities engines

88
00:04:11,970 --> 00:04:10,900

and then your second responsibilities

89
00:04:14,100 --> 00:04:11,980
engines and in your third

90
00:04:15,960 --> 00:04:14,110
responsibilities engines because without

91
00:04:18,390 --> 00:04:15,970
those engines were not getting to orbit

92
00:04:23,400 --> 00:04:18,400
the cinespace Center is NASA's largest

93
00:04:26,070 --> 00:04:23,410
rocket engine test facility NASA second

94
00:04:28,860 --> 00:04:26,080
annual IT summit covered topics ranging

95
00:04:31,740 --> 00:04:28,870
from security to the role of IT in space

96
00:04:34,320 --> 00:04:31,750
science and exploration drawing nearly

97
00:04:35,840 --> 00:04:34,330
2,000 attendees the three-day event

98
00:04:38,040 --> 00:04:35,850
hosted by the Ames Research Center

99
00:04:39,960 --> 00:04:38,050
featured technology leaders from

100
00:04:43,140 --> 00:04:39,970
government the private sector and

101
00:04:45,750 --> 00:04:43,150
academia the summit was hosted by NASA's

102
00:04:48,000 --> 00:04:45,760
chief information officer Linda cureton

103
00:04:51,540 --> 00:04:48,010
there's a tremendous need to think about

104
00:04:54,360 --> 00:04:51,550
IT as a discipline how do you manage at

105
00:04:58,110 --> 00:04:54,370
the scale of an organization the size of

106
00:05:01,350 --> 00:04:58,120
NASA how do you architect a future with

107
00:05:03,680 --> 00:05:01,360
heterogeneous needs now how do we get

108
00:05:06,180 --> 00:05:03,690
forward in a cost-effective way

109
00:05:08,610 --> 00:05:06,190
attendees participated in activities

110
00:05:11,190 --> 00:05:08,620
showcasing best practices in science and

111
00:05:13,469 --> 00:05:11,200
engineering support infrastructure and

112
00:05:20,000 --> 00:05:13,479
operations and innovative technological

113
00:05:24,900 --> 00:05:22,470

thousands of current and former space

114
00:05:26,480 --> 00:05:24,910
shuttle program employees gathered at

115
00:05:29,720 --> 00:05:26,490
the Kennedy Space Center Visitor Complex

116
00:05:33,330 --> 00:05:29,730
to celebrate 30 years of success and

117
00:05:35,310 --> 00:05:33,340
accomplishments it's due to the solid

118
00:05:37,350 --> 00:05:35,320
rocket boosters highlights of the we

119
00:05:39,510 --> 00:05:37,360
made history event included a

120
00:05:42,060 --> 00:05:39,520
presentation by the crew of the final

121
00:05:46,390 --> 00:05:42,070
shuttle flight for Atlantis sts-135

122
00:05:53,510 --> 00:05:46,400
mission and a nighttime air show

123
00:05:55,279 --> 00:05:53,520
and now centerpieces NASA's Wallops

124
00:05:57,770 --> 00:05:55,289
Flight Facility the marine science

125
00:06:00,080 --> 00:05:57,780
consortium and the US Fish and Wildlife

126
00:06:02,180 --> 00:06:00,090
Service signed a collaborative agreement

127
00:06:04,219 --> 00:06:02,190
that will specify and make possible more

128
00:06:05,629 --> 00:06:04,229
comprehensive environmental studies in

129
00:06:07,969 --> 00:06:05,639
the area we've actually created an

130
00:06:10,700 --> 00:06:07,979
agreement that allows NASA and the US

131
00:06:13,309 --> 00:06:10,710
Fish and Wildlife Service as well as the

132
00:06:15,439 --> 00:06:13,319
marine science consortium to do projects

133
00:06:17,629 --> 00:06:15,449
to create opportunities for research and

134
00:06:19,670 --> 00:06:17,639
you know hands-on applications that are

135
00:06:22,640 --> 00:06:19,680
going on in the field in this region

136
00:06:25,129 --> 00:06:22,650
particularly in what we call the coastal

137
00:06:26,779 --> 00:06:25,139
zone research area the focus is in the

138
00:06:28,640 --> 00:06:26,789

long term with climate change and sea

139
00:06:30,559 --> 00:06:28,650
level rise being the issue that will

140
00:06:33,230 --> 00:06:30,569
slowly over time impact the environment

141
00:06:35,680 --> 00:06:33,240
around us so we're going to need better

142
00:06:39,950 --> 00:06:35,690
predictive tools better predictive

143
00:06:41,990 --> 00:06:39,960
technologies and working together with

144
00:06:45,050 --> 00:06:42,000
the universities to collect the data

145
00:06:47,719 --> 00:06:45,060
today that will answer some of those

146
00:06:50,390 --> 00:06:47,729
questions into the future is so

147
00:06:51,980 --> 00:06:50,400
important NASA the US Fish and Wildlife

148
00:06:53,990 --> 00:06:51,990
Service and the marine science

149
00:06:55,519 --> 00:06:54,000
consortium will work together and bring

150
00:06:57,950 --> 00:06:55,529
to bear each of their unique

151
00:06:59,749 --> 00:06:57,960
capabilities in an unprecedented effort

152
00:07:01,249 --> 00:06:59,759
in environmental stewardship I think

153
00:07:03,680 --> 00:07:01,259
that what we can bring along with the

154
00:07:05,839 --> 00:07:03,690
kind of universities is with some of the

155
00:07:08,149 --> 00:07:05,849
instrumentation that we have is to be

156
00:07:11,029 --> 00:07:08,159
able to fly overhead maybe with some of

157
00:07:13,100 --> 00:07:11,039
the UAVs so that we have here or the on

158
00:07:15,290 --> 00:07:13,110
maybe some of the tethered balloons and

159
00:07:16,490 --> 00:07:15,300
be able to get some readings and so if

160
00:07:17,869 --> 00:07:16,500
we map that out with some of the

161
00:07:19,279 --> 00:07:17,879
instrumentation we have will be able to

162
00:07:20,809 --> 00:07:19,289
say okay that's what healthy looks like

163
00:07:25,850 --> 00:07:20,819

then we know the signature looks like

164
00:07:28,100 --> 00:07:25,860
this retired NASA astronaut and test

165
00:07:29,930 --> 00:07:28,110
pilot Fred Hayes was honored recently by

166
00:07:31,909 --> 00:07:29,940
the Lancaster California jet Hawks

167
00:07:36,950 --> 00:07:31,919
baseball team during their aerospace

168
00:07:41,659 --> 00:07:39,290
Hayes is best known is one of the three

169
00:07:44,150 --> 00:07:41,669
Apollo 13 astronauts who survived a

170
00:07:45,830 --> 00:07:44,160
potential space tragedy when an oxygen

171
00:07:48,400 --> 00:07:45,840
tank on their Apollo service module

172
00:07:50,809 --> 00:07:48,410
exploded on their 1970 lunar mission

173
00:07:52,820 --> 00:07:50,819
Hayes was recognized during pregame

174
00:07:54,290 --> 00:07:52,830
ceremonies by the jet Hawks and then

175
00:07:56,390 --> 00:07:54,300
threw out the first pitch before the

176
00:07:59,120 --> 00:07:56,400
team's california league game against

177
00:08:01,159 --> 00:07:59,130
the san jose giants Hayes was joined on

178
00:08:03,409 --> 00:08:01,169
the field by retired NASA astronaut

179
00:08:05,120 --> 00:08:03,419
Gordon Fullerton with whom he flew three

180
00:08:06,589 --> 00:08:05,130
of the five approach and landing tests

181
00:08:10,010 --> 00:08:06,599
of the prototype Space Shuttle Orbiter

182
00:08:12,170 --> 00:08:10,020
enterprise in 1977 and the two NASA

183
00:08:14,420 --> 00:08:12,180
research pilots Fitz Fulton and Tom

184
00:08:17,089 --> 00:08:14,430
McMurtry who flew the modified Boeing

185
00:08:19,670 --> 00:08:17,099
747 Shuttle Carrier aircraft the carried

186
00:08:21,439 --> 00:08:19,680
Enterprise aloft for the flights the

187
00:08:23,990 --> 00:08:21,449
occasion was also marked by a giveaway

188
00:08:26,330 --> 00:08:24,000

of bobblehead dolls in hays likeness the

189
00:08:28,909 --> 00:08:26,340
baseball fans attending the game and an

190
00:08:30,680 --> 00:08:28,919
aerial salute by an f-18 from nasa's

191
00:08:32,389 --> 00:08:30,690
dryden flight research center where

192
00:08:38,740 --> 00:08:32,399
Hayes had served as a test pilot in the

193
00:08:44,449 --> 00:08:41,750
it had never happened before and most

194
00:08:46,850 --> 00:08:44,459
likely will never happen again but for a

195
00:08:48,980 --> 00:08:46,860
few minutes recently NASA's two modified

196
00:08:51,440 --> 00:08:48,990
Boeing 747 space shuttle carrier

197
00:08:53,269 --> 00:08:51,450
aircraft flew in formation over the

198
00:09:00,230 --> 00:08:53,279
Edwards Air Force Base test range in

199
00:09:01,850 --> 00:09:00,240
Southern California since both converted

200
00:09:04,130 --> 00:09:01,860
jet liners were scheduled to be in the

201
00:09:05,720 --> 00:09:04,140
air at about the same time pilot Jeff

202
00:09:08,030 --> 00:09:05,730
Moultrie of Johnson Space Center's

203
00:09:10,040 --> 00:09:08,040
aircraft operations directorate arranged

204
00:09:15,680 --> 00:09:10,050
to have both aircraft fly information

205
00:09:17,990 --> 00:09:15,690
for about 20 minutes nasa dryden

206
00:09:19,819 --> 00:09:18,000
photographer carla thomas eagerly took

207
00:09:33,190 --> 00:09:19,829
the opportunity to capture still and

208
00:09:37,780 --> 00:09:36,010
the two modified 747 s were used to

209
00:09:39,520 --> 00:09:37,790
ferry the space shuttles after landings

210
00:09:41,800 --> 00:09:39,530
at Edwards to the Kennedy Space Center

211
00:09:43,300 --> 00:09:41,810
and to and from various other locations

212
00:09:45,730 --> 00:09:43,310
during the shuttles more than three

213
00:09:48,010 --> 00:09:45,740

decades three will also carry the

214
00:09:49,990 --> 00:09:48,020
now-retired discovery endeavour and at

215
00:09:55,030 --> 00:09:50,000
lattice to their final destinations for

216
00:09:57,820 --> 00:09:55,040
eventual public display sts-134

217
00:09:59,530 --> 00:09:57,830
astronaut greg box johnson joined crew

218
00:10:02,010 --> 00:09:59,540
mate mike fink at the Glenn Research

219
00:10:04,510 --> 00:10:02,020
Center for a post mission briefing

220
00:10:06,520 --> 00:10:04,520
Johnson and fink who flew aboard space

221
00:10:08,920 --> 00:10:06,530
shuttle Endeavour in May followed up

222
00:10:10,960 --> 00:10:08,930
their presentation with the Q&A session

223
00:10:13,000 --> 00:10:10,970
what advice would you give someone who

224
00:10:15,430 --> 00:10:13,010
would want to be an astronaut do what

225
00:10:18,250 --> 00:10:15,440
you love and then you'll do it really

226
00:10:20,170 --> 00:10:18,260
well at tossing the next ceremonial

227
00:10:21,970 --> 00:10:20,180
pitches are the two NASA astronauts

228
00:10:24,070 --> 00:10:21,980
later the pair throughout the first

229
00:10:26,500 --> 00:10:24,080
pitches of that evenings baseball game

230
00:10:28,810 --> 00:10:26,510
between the los angeles angels and the

231
00:10:30,520 --> 00:10:28,820
host Cleveland Indians and fans you can

232
00:10:32,320 --> 00:10:30,530
meet the NASA astronauts and get

233
00:10:34,480 --> 00:10:32,330
autographs during the first three

234
00:10:36,730 --> 00:10:34,490
innings of tonight and that's this week