1
00:00:12,169 --> 00:00:10,280
thank you George happy new year from

2
00:00:14,570 --> 00:00:12,179
nasa's dryden flight research facility

3
00:00:15,799 --> 00:00:14,580
on california's high desert I'm Don

4
00:00:18,590 --> 00:00:15,809
Haley from the Dryden Public Affairs

5
00:00:20,660 --> 00:00:18,600
Office one of the major highlights at

6
00:00:23,359 --> 00:00:20,670
Dryden this past year was the opening of

7
00:00:25,279 --> 00:00:23,369
this small teacher resource center since

8
00:00:27,679 --> 00:00:25,289
we're fairly distant from the TRC's at

9
00:00:29,570 --> 00:00:27,689
major NASA centers it's given our local

10
00:00:31,910 --> 00:00:29,580
teachers easier access to NASA's

11
00:00:36,280 --> 00:00:31,920
educational programs and the wealth of

12
00:00:40,880 --> 00:00:38,720
expanding again on the education theme

13
00:00:42,889 --> 00:00:40,890

we had special displays and guest

14
00:00:44,660 --> 00:00:42,899
astronauts for students we invited from

15
00:00:46,880 --> 00:00:44,670
the five Southern California counties

16
00:00:48,740 --> 00:00:46,890
surrounding Dryden for the landing of

17
00:00:51,590 --> 00:00:48,750
the Space Shuttle Endeavor on its maiden

18
00:00:53,660 --> 00:00:51,600
flight last May the thousands of

19
00:00:55,250 --> 00:00:53,670
students here saw for the first time a

20
00:00:57,220 --> 00:00:55,260
drag chute used by a Space Shuttle

21
00:00:59,389 --> 00:00:57,230
Orbiter

22
00:01:02,420 --> 00:00:59,399
another highlight was the grand opening

23
00:01:04,429 --> 00:01:02,430
of the integrated test facility the ITF

24
00:01:06,410 --> 00:01:04,439
gives researchers the ability to operate

25
00:01:08,660 --> 00:01:06,420
and observe various aircraft systems

26
00:01:11,539 --> 00:01:08,670
simultaneously prior to their research

27
00:01:13,520 --> 00:01:11,549
flight this unique capability speeds up

28
00:01:15,499 --> 00:01:13,530
in enhances systems integration and

29
00:01:18,170 --> 00:01:15,509
pre-flight checks on all types of

30
00:01:20,390 --> 00:01:18,180
research aircraft and the ITF can be

31
00:01:21,670 --> 00:01:20,400
used by up to six aircraft at the same

32
00:01:24,800 --> 00:01:21,680
time

33
00:01:27,200 --> 00:01:24,810
in the important area of high angle of

34
00:01:29,300 --> 00:01:27,210
attack research Dryden this past year

35
00:01:32,840 --> 00:01:29,310
was involved with three aircraft flying

36
00:01:36,640 --> 00:01:32,850
these types of missions the f-18 the x31

37
00:01:41,569 --> 00:01:39,890
the f-18 with its three access thrust

38
00:01:44,420 --> 00:01:41,579

vectoring system for high AOA

39
00:01:47,060 --> 00:01:44,430
controllability achieved 70 degrees in

40
00:01:49,429 --> 00:01:47,070
sustained flight in nasa's study of air

41
00:01:51,859 --> 00:01:49,439
flow characteristics control surface

42
00:01:53,950 --> 00:01:51,869
interaction and engine performance at

43
00:01:56,660 --> 00:01:53,960
these flight conditions

44
00:01:59,149 --> 00:01:56,670
researchers are also looking at the x31

45
00:02:02,630 --> 00:01:59,159
with its thrust vectoring system for

46
00:02:04,130 --> 00:02:02,640
greater maneuvering capability the x31

47
00:02:07,190 --> 00:02:04,140
is being flown at Dryden by an

48
00:02:09,770 --> 00:02:07,200
international test organization and it

49
00:02:13,100 --> 00:02:09,780
has also reached 70 degrees angle of

50
00:02:14,690 --> 00:02:13,110
attack in sustained flight the program

51
00:02:18,080 --> 00:02:14,700
is managed by the defense advanced

52
00:02:19,400 --> 00:02:18,090
research projects agency darpa and could

53
00:02:21,380 --> 00:02:19,410
someday lead to fleets of

54
00:02:23,030 --> 00:02:21,390
high-performance fighters with thrust

55
00:02:25,780 --> 00:02:23,040
vectoring systems for better control

56
00:02:28,730 --> 00:02:25,790
ability at high angles of attack

57
00:02:30,860 --> 00:02:28,740
this past year Dryden participated in

58
00:02:32,870 --> 00:02:30,870
another flight project with the x29

59
00:02:36,340 --> 00:02:32,880
forward swept wing experimental aircraft

60
00:02:38,960 --> 00:02:36,350
the third doing hi aoa work at Dryden

61
00:02:41,660 --> 00:02:38,970
the unique aircraft was modified with

62
00:02:44,390 --> 00:02:41,670
vortex flow controls at the nose in a

63
00:02:46,520 --> 00:02:44,400

study of using small gas thrusters for

64
00:02:47,229 --> 00:02:46,530
better control ability at high angles of

65
00:02:50,120 --> 00:02:47,239
attack

66
00:02:52,009 --> 00:02:50,130
it was a very successful project which

67
00:02:54,160 --> 00:02:52,019
produced a lot of good research data in

68
00:02:57,350 --> 00:02:54,170
a very short time

69
00:02:59,600 --> 00:02:57,360
the triple sonic sr-71 is now being used

70
00:03:02,270 --> 00:02:59,610
as a high-speed high-altitude research

71
00:03:04,250 --> 00:03:02,280
platform and data from these types of

72
00:03:07,240 --> 00:03:04,260
missions will be used in the development

73
00:03:09,979 --> 00:03:07,250
of future high-speed civil transports

74
00:03:12,020 --> 00:03:09,989
locally Dryden families and students

75
00:03:14,600 --> 00:03:12,030
from nearby lake los angeles school our

76
00:03:16,340 --> 00:03:14,610
adoptive school partners we're thrilled

77
00:03:18,380 --> 00:03:16,350
when one of our three blackbirds cruise

78
00:03:19,780 --> 00:03:18,390
over head during Dryden's family day

79
00:03:22,789 --> 00:03:19,790
program

80
00:03:25,490 --> 00:03:22,799
just before the holidays nasa's highly

81
00:03:27,770 --> 00:03:25,500
modified 990 now a landing systems

82
00:03:29,420 --> 00:03:27,780
research aircraft got into the air for

83
00:03:31,850 --> 00:03:29,430
the first time in several years on a

84
00:03:33,949 --> 00:03:31,860
functional check flight in preparation

85
00:03:36,920 --> 00:03:33,959
for space shuttle landing gear systems

86
00:03:38,600 --> 00:03:36,930
tests to begin soon as part of NASA's

87
00:03:40,810 --> 00:03:38,610
ongoing effort to upgrade and improve

88
00:03:43,460 --> 00:03:40,820

systems on the orbiters

89
00:03:45,470 --> 00:03:43,470
discoveries last minute visit to Dryden

90
00:03:47,660 --> 00:03:45,480
on December 9th rounded out this year's

91
00:03:49,069 --> 00:03:47,670
Space Shuttle missions as it flew south

92
00:03:51,080 --> 00:03:49,079
over the western edge of the United

93
00:03:53,479 --> 00:03:51,090
States for midday landing on the main

94
00:03:55,430 --> 00:03:53,489
runway at Edwards and Dryden shuttle

95
00:03:58,460 --> 00:03:55,440
support crews will be eagerly awaiting

96
00:04:00,140 --> 00:03:58,470
the missions of 1993 to help land and

97
00:04:02,650 --> 00:04:00,150
service the orbiters when weather

98
00:04:06,050 --> 00:04:02,660
diverts them to Dryden

99
00:04:07,759 --> 00:04:06,060
as the new year began our aircraft crews

100
00:04:10,120 --> 00:04:07,769
were busy at the Kennedy Space Center in

101
00:04:13,190 --> 00:04:10,130
Florida preparing Dryden's venerable

102
00:04:15,590 --> 00:04:13,200
b-52 to air launched a Pegasus space

103
00:04:17,659 --> 00:04:15,600
booster from the pylon on the right wing

104
00:04:19,990 --> 00:04:17,669
on a mission to place a Brazilian

105
00:04:22,909 --> 00:04:20,000
satellite into orbit from

106
00:04:25,159 --> 00:04:22,919
Dryden happy New Year to everyone with

107
00:04:27,290 --> 00:04:25,169
NASA and now we go to Don James at the