

Hubble Space Telescope



Wide Field and Planetary Camera

1  
00:00:06,140 --> 00:00:04,309  
what's up for June hello and welcome I'm

2  
00:00:07,490 --> 00:00:06,150  
Jane Houston Jones at NASA's Jet

3  
00:00:11,209 --> 00:00:07,500  
Propulsion Laboratory in Pasadena

4  
00:00:13,640 --> 00:00:11,219  
California 2009 is international year of

5  
00:00:16,970 --> 00:00:13,650  
astronomy and each month this year were

6  
00:00:19,250 --> 00:00:16,980  
showcasing a great celestial object this

7  
00:00:23,029 --> 00:00:19,260  
month it's the Hercules globular cluster

8  
00:00:25,460 --> 00:00:23,039  
which is also called m13 it's called m13

9  
00:00:28,310 --> 00:00:25,470  
because this object is the 13th of

10  
00:00:31,310 --> 00:00:28,320  
charles Messier's 1764 catalogue of

11  
00:00:33,639 --> 00:00:31,320  
celestial objects but Charles Messier

12  
00:00:36,080 --> 00:00:33,649  
wasn't the discoverer of this cluster

13  
00:00:39,380 --> 00:00:36,090

m13 was discovered half a century

14

00:00:41,600 --> 00:00:39,390

earlier by Edmond Halley a globular

15

00:00:43,639 --> 00:00:41,610

cluster is a collection of hundreds of

16

00:00:47,090 --> 00:00:43,649

thousands of ancient stars held together

17

00:00:48,979 --> 00:00:47,100

by gravity you can easily find em 13 in

18

00:00:51,049 --> 00:00:48,989

the keystone of the constellation

19

00:00:53,600 --> 00:00:51,059

hercules about a third of the way along

20

00:00:57,650 --> 00:00:53,610

a line drawn between ada and zeta

21

00:00:59,990 --> 00:00:57,660

herculis m13 will look like a round hazy

22

00:01:02,479 --> 00:01:00,000

glow and binoculars through a telescope

23

00:01:04,880 --> 00:01:02,489

you'll see individual stars at the edge

24

00:01:08,030 --> 00:01:04,890

of the cluster and a dense core of stars

25

00:01:10,039 --> 00:01:08,040

closer to the center the hub of space

26  
00:01:12,560 --> 00:01:10,049  
telescope's wide field and planetary

27  
00:01:15,380 --> 00:01:12,570  
camera 2 or whiff pic 2 for short and

28  
00:01:19,219 --> 00:01:15,390  
the advanced camera for surveys combined

29  
00:01:21,710 --> 00:01:19,229  
data from 1999 through 2006 to create a

30  
00:01:23,140 --> 00:01:21,720  
glittering image of this Herculean Star

31  
00:01:25,780 --> 00:01:23,150  
City

32  
00:01:28,240 --> 00:01:25,790  
a spiral galaxy like our Milky Way is

33  
00:01:31,840 --> 00:01:28,250  
made up of three visible parts the

34  
00:01:34,240 --> 00:01:31,850  
nucleus the disk and the halo the

35  
00:01:37,330 --> 00:01:34,250  
nucleus contains the highest density of

36  
00:01:40,540 --> 00:01:37,340  
stars in the galaxy most of the gas and

37  
00:01:43,030 --> 00:01:40,550  
dust is contained in the disk the halo

38  
00:01:46,870 --> 00:01:43,040

or outer shell is spherical and contains

39

00:01:49,000 --> 00:01:46,880

little gas dust or star formation the

40

00:01:52,930 --> 00:01:49,010

globular clusters found in the halo are

41

00:01:56,350 --> 00:01:52,940

the oldest parts of the galaxy m13 is

42

00:02:00,670 --> 00:01:56,360

one of 150 globular clusters in the halo

43

00:02:02,530 --> 00:02:00,680

of our Milky Way galaxy this is the last

44

00:02:05,469 --> 00:02:02,540

month to get a good look at Saturn in

45

00:02:07,300 --> 00:02:05,479

the evening sky so don't miss it the

46

00:02:09,430 --> 00:02:07,310

Rings are narrowing to nearly edge-on

47

00:02:12,520 --> 00:02:09,440

and look dimmer than they did last month

48

00:02:14,650 --> 00:02:12,530

you can read about the Hercules globular

49

00:02:18,430 --> 00:02:14,660

cluster on NASA's international year of

50

00:02:21,820 --> 00:02:18,440

astronomy website astronomy 2009 nasa

51

00:02:26,680 --> 00:02:21,830

gov and you can learn all about NASA's