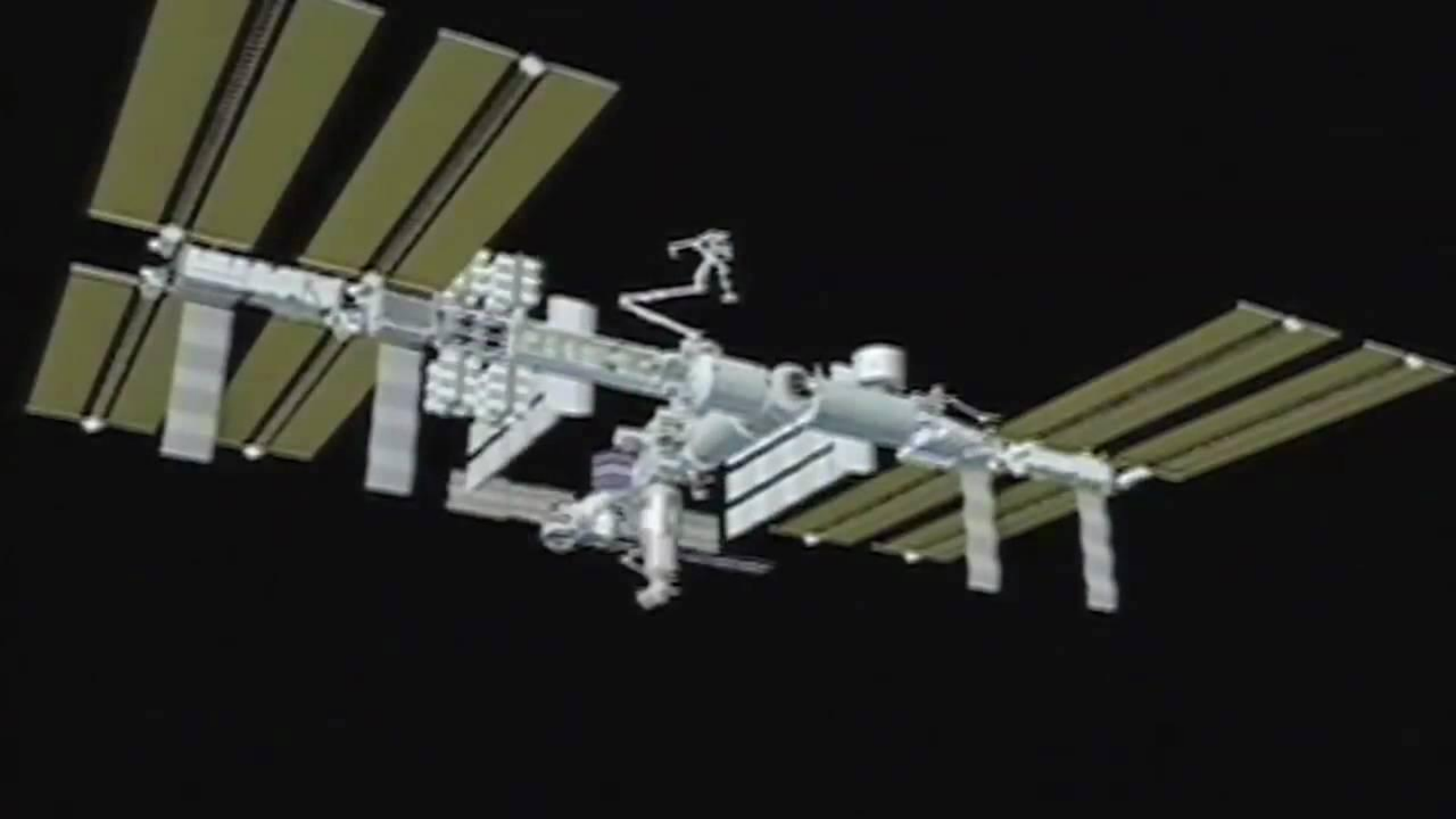

1
00:00:06,950 --> 00:00:03,750
what's up for april

2
00:00:09,270 --> 00:00:06,960
the international space station

3
00:00:11,190 --> 00:00:09,280
hello and welcome i'm jane houston jones

4
00:00:18,230 --> 00:00:11,200
at nasa's jet propulsion laboratory in

5
00:00:22,470 --> 00:00:19,990
have you ever seen the space station

6
00:00:24,390 --> 00:00:22,480
pass overhead it's easy if you know when

7
00:00:27,189 --> 00:00:24,400
and where to look

8
00:00:30,070 --> 00:00:27,199
the space station orbits earth about 15

9
00:00:31,830 --> 00:00:30,080
times per day

10
00:00:34,389 --> 00:00:31,840
with your unaided eyes it looks like a

11
00:00:36,549 --> 00:00:34,399
bright star moving across the sky but it

12
00:00:38,470 --> 00:00:36,559
doesn't blink like an airplane

13
00:00:39,910 --> 00:00:38,480

to find out when a pass will be visible

14
00:00:42,869 --> 00:00:39,920
check on the web for sighting

15
00:00:47,190 --> 00:00:45,350
nasa's human space flight website has a

16
00:00:49,430 --> 00:00:47,200
great tool to help you find local siding

17
00:00:52,150 --> 00:00:49,440
dates and times

18
00:00:56,069 --> 00:00:52,160
start by selecting your country

19
00:00:58,229 --> 00:00:56,079
state and city from the drop down menus

20
00:01:00,229 --> 00:00:58,239
a list of next sightings appears as soon

21
00:01:03,349 --> 00:01:00,239
as you click on your city

22
00:01:05,109 --> 00:01:03,359
the satellite or spacecraft name

23
00:01:07,750 --> 00:01:05,119
local date and time fields are

24
00:01:09,750 --> 00:01:07,760
self-explanatory

25
00:01:11,750 --> 00:01:09,760
duration is the length of time the

26
00:01:14,149 --> 00:01:11,760
satellite will be visible in your sky on

27
00:01:16,469 --> 00:01:14,159
a clear night

28
00:01:19,190 --> 00:01:16,479
the maximum elevation is how high above

29
00:01:22,230 --> 00:01:19,200
the horizon the spacecraft will get 90

30
00:01:23,990 --> 00:01:22,240
degrees is directly overhead

31
00:01:26,070 --> 00:01:24,000
you might familiarize yourself with a

32
00:01:28,230 --> 00:01:26,080
few bright stars or planets in the sky

33
00:01:35,109 --> 00:01:28,240
this month and eyeball their position

34
00:01:38,950 --> 00:01:37,109
the approach and departure degree and

35
00:01:41,350 --> 00:01:38,960
direction tell you which direction the

36
00:01:43,030 --> 00:01:41,360
spacecraft will first appear from and

37
00:01:59,030 --> 00:01:43,040
then the direction it will disappear

38
00:02:03,670 --> 00:02:01,109

the best time for space station gazing

39
00:02:05,670 --> 00:02:03,680
is just before dawn or just after sunset

40
00:02:08,309 --> 00:02:05,680
when the observer is in the dark but the

41
00:02:10,550 --> 00:02:08,319
space station is in the sun when the

42
00:02:12,710 --> 00:02:10,560
spacecraft is no longer lit by sunlight

43
00:02:17,430 --> 00:02:12,720
it disappears into earth's shadow and

44
00:02:20,869 --> 00:02:19,270
space shuttle missions carry needed

45
00:02:23,270 --> 00:02:20,879
supplies and equipment to the space

46
00:02:25,030 --> 00:02:23,280
station and it's fun to see both objects

47
00:02:27,030 --> 00:02:25,040
when they're both in orbit

48
00:02:29,030 --> 00:02:27,040
you don't need a telescope or binoculars

49
00:02:32,630 --> 00:02:29,040
to see them they move too fast for most

50
00:02:37,190 --> 00:02:34,550
on the day or two immediately before

51
00:02:39,110 --> 00:02:37,200
docking and after undocking the shuttle

52
00:02:45,430 --> 00:02:39,120
and station will appear to be chasing

53
00:02:49,910 --> 00:02:47,670
after moonset between 1 and 2 am on the

54
00:02:52,390 --> 00:02:49,920
morning of april 22nd you'll get to

55
00:02:54,790 --> 00:02:52,400
enjoy the lyric meteor shower you can

56
00:02:56,710 --> 00:02:54,800
expect to see about 20 swift and bright

57
00:02:59,030 --> 00:02:56,720
meteors per hour from a dark sky

58
00:03:01,589 --> 00:02:59,040
location that's a great reason to wake

59
00:03:06,229 --> 00:03:03,830
you can learn more about human space at

60
00:03:07,830 --> 00:03:06,239
spaceflight.nasa.gov

61
00:03:09,509 --> 00:03:07,840
and you can learn more about nasa

62
00:03:13,750 --> 00:03:09,519
missions and when the next space shuttle