



VENUS

SOUTHWESTERN SKY

5:30 PM

1
00:00:14,709 --> 00:00:06,309
your guide to constellations deep sky

2
00:00:42,069 --> 00:00:17,590
tonight's sky highlights of the december

3
00:01:10,390 --> 00:00:45,350
just after sunset look for venus blazing

4
00:01:44,390 --> 00:01:13,350
by nightfall jupiter is already high in

5
00:01:49,190 --> 00:01:46,310
two prominent constellations in the

6
00:01:57,190 --> 00:01:49,200
december night sky represent notable

7
00:02:05,429 --> 00:02:00,149
the great hero perseus holds the head of

8
00:02:20,150 --> 00:02:09,350
an open star cluster in perseus is m34

9
00:02:24,949 --> 00:02:22,470
open star clusters are groups of young

10
00:02:30,470 --> 00:02:24,959
stars that all formed at the same time

11
00:02:49,990 --> 00:02:32,710
look for it with the naked eye or with

12
00:02:55,990 --> 00:02:52,550
queen cassiopeia was punished for her

13
00:03:02,470 --> 00:02:56,000

conceit and vanity by being tied to her

14

00:03:10,550 --> 00:03:04,869

cassiopeia's w shape makes this

15

00:03:15,270 --> 00:03:13,350

ada cassiopeia is a wonderful and

16

00:03:18,149 --> 00:03:15,280

colorful double star

17

00:03:26,270 --> 00:03:18,159

use binoculars or a small telescope to

18

00:03:33,190 --> 00:03:30,390

m-103 in cassiopeia is another fine open

19

00:03:36,309 --> 00:03:33,200

star cluster with a prominent red star

20

00:03:41,750 --> 00:03:36,319

near the center its fan shape is evident

21

00:03:47,990 --> 00:03:44,789

lying between cassiopeia and perseus is

22

00:03:50,869 --> 00:03:48,000

the lovely double cluster this pair of

23

00:03:53,350 --> 00:03:50,879

open star clusters is easy to see with

24

00:03:55,670 --> 00:03:53,360

binoculars

25

00:03:58,470 --> 00:03:55,680

the double cluster resembles a handful

26

00:04:21,349 --> 00:03:58,480

of diamonds scattered on black velvet

27

00:04:25,830 --> 00:04:24,230

both mars and saturn are early morning

28

00:04:28,629 --> 00:04:25,840

planets this month

29

00:04:48,469 --> 00:04:28,639

mars is up all morning long and climbs

30

00:04:52,870 --> 00:04:50,469

saturn appears a little later in the

31

00:05:17,430 --> 00:04:52,880

morning shining above the southeastern

32

00:05:22,469 --> 00:05:20,230

the mid-december night sky hosts a

33

00:05:25,510 --> 00:05:22,479

lovely meteor shower

34

00:05:28,230 --> 00:05:25,520

from december 13th to 14th the bright

35

00:05:30,150 --> 00:05:28,240

and fast geminids will skip across the

36

00:05:32,310 --> 00:05:30,160

upper atmosphere

37

00:05:43,270 --> 00:05:32,320

watch for meteors zipping away from the

38

00:05:48,469 --> 00:05:45,749

many sky watchers will enjoy a lunar

39

00:05:50,790 --> 00:05:48,479

eclipse on december 10th this happens

40

00:05:51,749 --> 00:05:50,800

when the moon passes through earth's

41

00:05:54,550 --> 00:05:51,759

shadow

42

00:05:57,029 --> 00:05:54,560

the moon does not quite disappear but

43

00:05:59,110 --> 00:05:57,039

turns a coppery red

44

00:06:01,430 --> 00:05:59,120

viewers in north america will see the

45

00:06:10,870 --> 00:06:01,440

eclipsed moon sink into the western

46

00:06:17,670 --> 00:06:13,590

the night sky is always a celestial