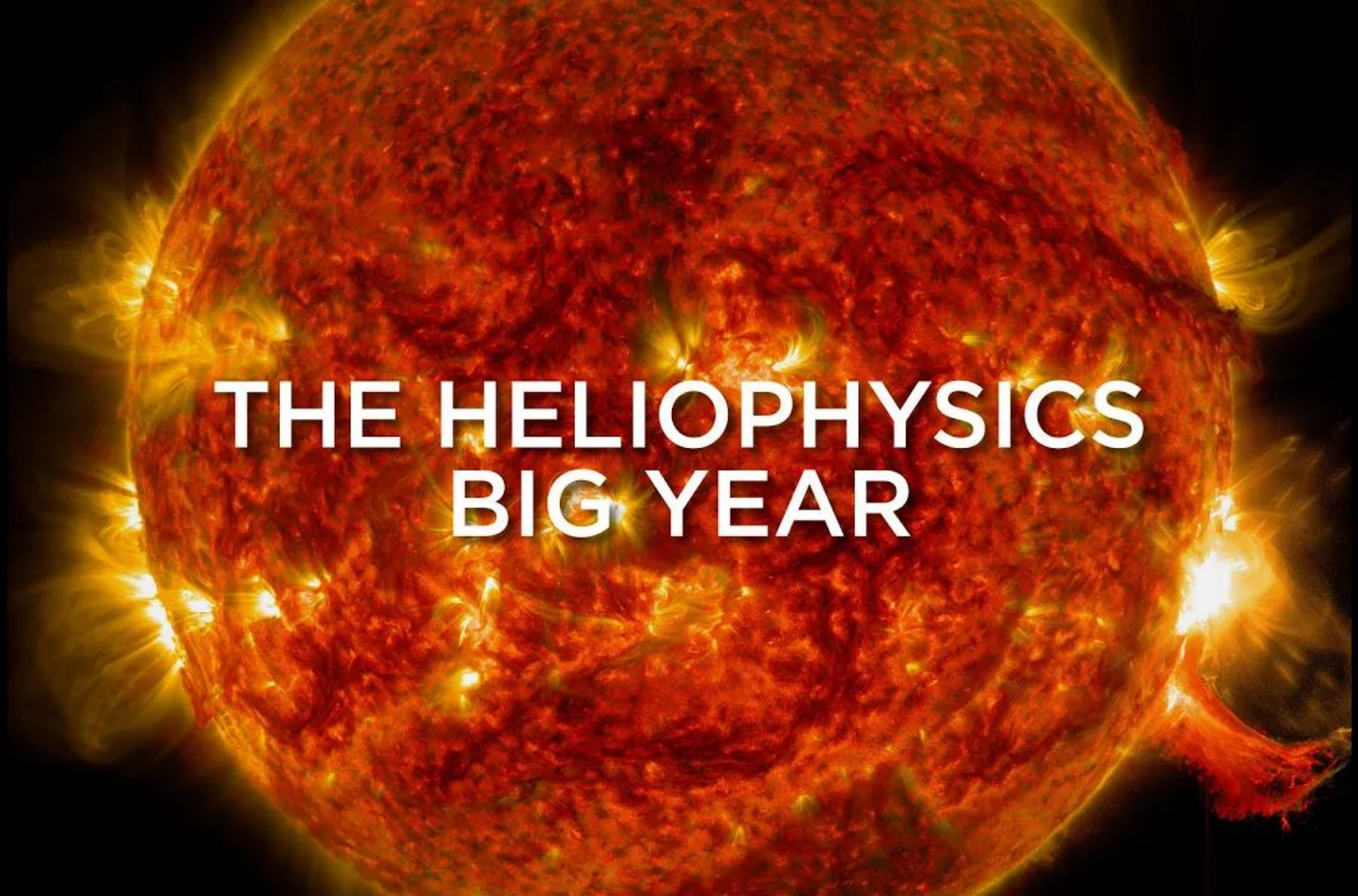
THE HELIOPHYSICS
BIG YEAR

1
00:00:04,630 --> 00:00:01,829
[Music]

2
00:00:07,030 --> 00:00:04,640
the heliophysics big year is a global

3
00:00:09,669 --> 00:00:07,040
celebration of solar science and the

4
00:00:12,230 --> 00:00:09,679
sun's influence on earth and throughout

5
00:00:14,390 --> 00:00:12,240
the solar system and we want you to be a

6
00:00:16,390 --> 00:00:14,400
part of it we challenge you to

7
00:00:18,710 --> 00:00:16,400
participate in as many sun science

8
00:00:21,750 --> 00:00:18,720
activities as possible beginning with

9
00:00:23,750 --> 00:00:21,760
the annular eclipse in 2023 and ending

10
00:00:27,670 --> 00:00:23,760
with parker solar probe's closest

11
00:00:29,990 --> 00:00:27,680
approach to the sun in december 2024

12
00:00:32,470 --> 00:00:30,000
space is increasingly part of the human

13
00:00:34,389 --> 00:00:32,480

domain by studying the sun's influence

14
00:00:36,709 --> 00:00:34,399
in space and its interactions with

15
00:00:38,709 --> 00:00:36,719
planets we learn how to better protect

16
00:00:41,190 --> 00:00:38,719
astronauts and robotic missions from

17
00:00:43,270 --> 00:00:41,200
space weather and to develop technology

18
00:00:45,510 --> 00:00:43,280
that protects the very infrastructure we

19
00:00:48,470 --> 00:00:45,520
rely on here on earth such as power

20
00:00:50,950 --> 00:00:48,480
grids and gps signals

21
00:00:53,029 --> 00:00:50,960
nasa's heliophysics division studies the

22
00:00:55,430 --> 00:00:53,039
sun's influence on everything in our

23
00:00:58,069 --> 00:00:55,440
solar system from the very core of the

24
00:01:01,110 --> 00:00:58,079
sun to the very edge where the sun's

25
00:01:03,110 --> 00:01:01,120
atmosphere meets interstellar space

26
00:01:05,350 --> 00:01:03,120
we have 20 heliophysics missions that

27
00:01:06,710 --> 00:01:05,360
are operational and 14 more under

28
00:01:08,630 --> 00:01:06,720
development

29
00:01:10,390 --> 00:01:08,640
the heliophysics big year will highlight

30
00:01:12,950 --> 00:01:10,400
the work that we're doing to understand

31
00:01:15,510 --> 00:01:12,960
our star and to mitigate the effects of

32
00:01:17,749 --> 00:01:15,520
space weather the big year is a concept

33
00:01:19,749 --> 00:01:17,759
that originated with citizen scientists

34
00:01:22,230 --> 00:01:19,759
in the bird watching community

35
00:01:24,630 --> 00:01:22,240
during their big year birders attempt to

36
00:01:26,789 --> 00:01:24,640
observe and study as many species as

37
00:01:29,030 --> 00:01:26,799
possible during a calendar year and we

38
00:01:30,230 --> 00:01:29,040

are challenging you to do the same with

39
00:01:31,910 --> 00:01:30,240
our sun

40
00:01:33,830 --> 00:01:31,920
during the heliophysics big year you

41
00:01:36,469 --> 00:01:33,840
will have the opportunity to participate

42
00:01:39,270 --> 00:01:36,479
in many solar science events like

43
00:01:42,069 --> 00:01:39,280
watching solar eclipses experiencing an

44
00:01:44,550 --> 00:01:42,079
aurora participating in citizen science

45
00:01:47,510 --> 00:01:44,560
projects and lots of other fun sun

46
00:01:49,990 --> 00:01:47,520
related activities so please be sure to

47
00:01:53,750 --> 00:01:50,000
look out for opportunities to be part of